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The JAA is an associated body of the European Civil Aviation Conference (ECAC) representing the civil aviation regulatory authorities of a number of European States who have agreed to cooperate in developing and implementing common safety regulatory standards and procedures. The JAA is responsible for the development and application of common provisions (so called Joint Aviation Requirements - JARs) as well as of procedures concerning the safety and operation of aircraft's. The JAA develops and adopts JARs in the field of aircraft design and manufacture, aircraft operations and maintenance, and the licensing of aviation personnel. Global provides all of the JAA documents.

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JAA Directory

Address and telephone numbers of persons involved in JAA activities. In addition, an overview of JAA's committees and groups is included.

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A general guide to the JAA and its activities. It includes a listing of the current amendment status of the JARs and of the NPAs issued to date.

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Maintenance

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General information on maintenance activities in the JAA, as well the JAA's implementation procedures for JAR-145, JAR-66, and JAR-147 and existing temporary guidance material.

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Organizations approved under JAR-147.
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Certification

Administrative & Guidance Material Section 3: Certification Guidance Material and Procedures

General information on certification activities in the JAA, as well the JAA's implementation procedures for Certification/Validation as well as existing temporary guidance material.

[JAA A&GM SECTION 3](#)
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Operations

Administrative & Guidance Material Section 4: Operations Guidance Material and Procedures

General information on operations activities in the JAA, as well the JAA's implementation procedures for JAR-OPS, and existing temporary guidance material. Also a list of AOC holders is included.

[JAA A&GM SECTION 4](#)
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Administrative & Guidance Material Section 6: Synthetic Training Devices Guidance Material and Procedures

General information on synthetic training devices activities of JAA, as well as the JAA's implementation procedures for JAR-STD, and existing temporary guidance material. A list of STD holders is included.

[JAA A&GM SECTION 6](#)
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Licensing

Administrative & Guidance Material Section 5: Licensing Guidance Material and Procedures

General information on licensing activities in the JAA, as well as the JAA's implementation procedures for JAR-FCL.

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[JAA JAR COMPLETE SET REN](#)

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[JAA JAR-1 REN](#)

JAA Regulatory and Related Procedures

Procedures and process for the development of JARs and amendments to JARs.

[JAA JAR-11](#)

[JAA JAR-11 REN](#)

Joint Advisory Material - Advisory Circular Joint

GAI-20 covers ACJs relating to more than one JAR, across various disciplines, which may, if desired be published only once; thus avoiding the need for the duplication of that text. The document includes Advisory Material for issues such as GPS, B-RNAV, recognition of EUROCAE ED-12B.

[JAA GAI-20](#)

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Approved Maintenance Organizations

Requirements for the granting of a maintenance organization approval.

[JAA JAR-145](#)

[JAA JAR-145 REN](#)

Certifying Staff

Requirements for maintenance certifying staff to qualify under the authority of a JAR-145 organization to issue JAR 145.50 certificates of release to service.

[JAA JAR-66](#)

[JAA JAR-66 REN](#)

Maintenance Training Organizations

Requirements for the training/examination of maintenance certifying staff to the standard of JAR-66 to qualify under the authority of a JAR-145 organization to issue JAR 145.50 certificates of release to service.

[JAA JAR-147](#)

[JAA JAR-147 REN](#)

Certification

Certification Procedures for Aircraft and Related Products & Parts

Requirements for the type certification of aircraft, engines, APUs, and other parts.

[JAA JAR-21](#)

[JAA JAR-21 REN](#)

Sailplanes and Powered Sailplanes

Certification standards for sailplanes and powered sailplanes in the utility (U) and aerobatic (A) categories.

[JAA JAR-22](#)

[JAA JAR-22 REN](#)

Normal, Utility, Aerobatic and Commuter Category Aeroplanes

Airworthiness standards for the certification of aeroplanes in the normal, utility and aerobatic categories that have a seating configuration, excluding pilot seats, of nine or less and a maximum certificated take-off weight of 12,500 lbs or less; and propeller-driven twin-engined aeroplanes in the commuter category that have a seating configuration, excluding pilot seats, of nineteen or less and a maximum certificated take-off weight of 19,000 lbs or less.

[JAA JAR-23](#)

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Large Aeroplanes

Airworthiness standards for the certification of multi engine turbine-powered aeroplanes with a maximum take-off weight greater than 5,700 kg.

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Small Rotorcraft

Airworthiness standards for the certification of rotorcraft with maximum weights of 6,000 lbs or less.

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Large Rotorcraft

Airworthiness standards for the certification of rotorcraft with maximum weights greater than 6,000 lbs.

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[JAA JAR-APU REN](#)

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Approved Joint Technical Standard Orders.
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[JAA JAR-TSO REN](#)

All Weather Operations

Airworthiness standards for the certification of aircraft which are capable of automatic landing.
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[JAA JAR-AWO REN](#)

Very Light Aeroplane

Airworthiness standards for the certification of aeroplanes with a single engine (spark or compression-ignition) having not more than two seats, with a Maximum Certificated Take-off Weight of not more than 750 kg and a stalling speed in the landing configuration of not more than 45 knots (CAS), that is to be operated in day-VFR only. This code excludes those aircraft classified as ultralights or microlights.
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[JAA JAR-VLA REN](#)

Operations

Commercial Air Transportation (Aeroplanes)

Requirements which apply to the operation of aeroplanes for the purpose of commercial air transportation.
[JAA JAR-OPS 1](#)
[JAA JAR-OPS 1 REN](#)

Commercial Air Transportation (Helicopters)

Requirements which apply to the operation of helicopters for the purpose of commercial air transportation.
[JAA JAR-OPS 3](#)
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Additional Airworthiness Requirements for Operations

Additional airworthiness requirements for commercial air transportation with aeroplanes which are to be put in place in time for the final implementation of JAR-OPS Part 1.
[JAA JAR-26](#)
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Aeroplane Flight Simulators

Requirements which apply to those persons, organizations or enterprises (Simulator Operators) seeking qualification of Flight Simulators.
[JAA JAR-STD 1A](#)
[JAA JAR-STD 1A REN](#)

Aeroplane Flight Training Devices

Requirements which apply to those persons, organizations or enterprises (FTD Operators) seeking qualification of Flight Training Devices.
[JAA JAR-STD 2A](#)
[JAA JAR-STD 2A REN](#)

Flight & Navigation Procedures Trainers

Requirements which apply to those persons, organizations or enterprises (FNPT Operators) seeking qualification of FNPTs.
[JAA JAR-STD 3A](#)
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Basic Instrument Training Devices

Requirements which apply to those manufacturers and/or operators of Basic Instrument Training Devices seeking qualification of these.
[JAA JAR-STD 4A](#)
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Helicopter Flight Simulators

Requirements which apply to those persons or organizations (STD Operators) seeking qualification of Flight Simulators.
[JAA JAR-STD 1H](#)
[JAA JAR-STD 1H REN](#)

Helicopter Flight and Navigation Procedures Trainers

Requirements which apply to persons/organizations (STD Operators) seeking qualification of Flight and Navigation Procedures Trainers.
[JAA JAR-STD 3H](#)
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Master Minimum Equipment List/Minimum Equipment List

Requirements prescribing the conditions for the approval of documents called "Master Minimum Equipment Lists" (MMEL) and "Minimum Equipment Lists" (MEL).
[JAA JAR-MMEL/MEL](#)
[JAA JAR-MMEL/MEL REN](#)

Licensing

Flight Crew Licensing (Aeroplanes)

Requirements for obtaining and maintaining a pilot's license, and ratings, for aeroplanes, as well as requirements for Training Organizations, approved courses and examiner authorizations.
[JAA JAR-FCL 1](#)
[JAA JAR-FCL 1 REN](#)

Flight Crew Licensing (Helicopters)

Requirements for obtaining and maintaining a pilot's license, and ratings, for aeroplanes, as well as requirements for Training Organizations, approved courses and examiner authorizations.
[JAA JAR-FCL 2](#)
[JAA JAR-FCL 2 REN](#)

Flight Crew Licensing (Medical)

Requirements for obtaining and maintaining a medical certificate in conjunction with a pilot/flight engineer's license. This JAR also includes the JAA Manual of Civil Aviation Medicine.
[JAA JAR-FCL 3](#)
[JAA JAR-FCL 3 REN](#)



Flight Crew Licensing (Flight Engineers)

Requirements for obtaining and maintaining a flight engineer's license, and ratings, as well as requirements for Training Organizations, approved courses and examiner authorizations.

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[SOS](#)

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[SAE AS 9100](#)

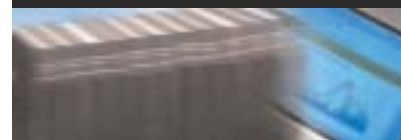
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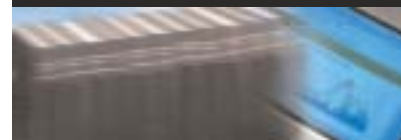
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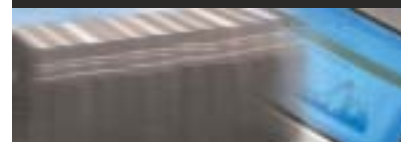
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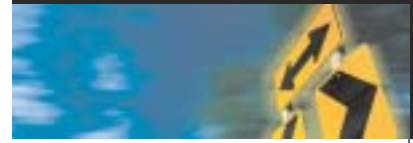
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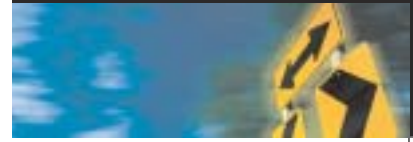
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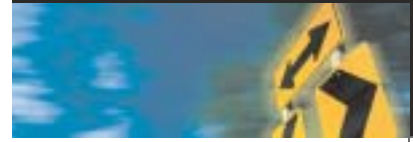
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Section III: Division 1 Subdivision ND - Class 3 Components

[ASME S0003D](#)

[ASME S0003D ADDENDA](#)

Section III: Division 1 Subdivision NE - Class MC Components

[ASME S0003E](#)

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[ASME S0003F](#)

[ASME S0003F ADDENDA](#)

Section III: Division 1 Subdivision NG - Core Support Structures

[ASME S0003G](#)

[ASME S0003G ADDENDA](#)

Section III: Division 1 Subdivision NH - Class 1 Components in Elevated Temperature Service

[ASME S0003H](#)

[ASME S0003H ADDENDA](#)

Section III: Division 1 Appendices

[ASME S0003A](#)

[ASME S0003A ADDENDA](#)

Section III: Division 2 - Code for Concrete Reactor Vessels and Containments

[ASME S00032](#)

[ASME S00032 ADDENDA](#)

Section III: Division 3 Containment Systems for Storage and Transport Packagings of Spent Nuclear Fuel and High Level Radioactive Material and Waste Rules

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Section IV: Rules for Construction of Heating Boilers

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Section V: Nondestructive Examination

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Section VI: ASME Boiler & Pressure Vessel Committee Subcommittee on Heating Boilers Subgroup on Care & Operation Heating Boilers (SC IV)

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Section VIII: Pressure Vessels Division 1

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Section VIII: Division 2 - Alternative Rules

[ASME S00082](#)

[ASME S00082 ADDENDA](#)

Section VIII: Division 3 - Alternative Rules for Construction of High Pressure Vessels

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[ASME S00083 ADDENDA](#)

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Section IX: Qualification Standard for Welding and Brazing Procedures, Welders, Brazers, and Welding and Brazing Operators

[ASME S00090](#)

[ASME S00090 ADDENDA](#)

ASME BPVC Section IX: Welding and Brazing Qualifications on CD-ROM

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Section X: ASME Boiler & Pressure Vessel Committee Subcommittee on Fiber-Reinforced Plastic Pressure Vessels

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[ASME S00100 ADDENDA](#)

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Boilers and Pressure Vessels: Code Cases

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ASME BPVC Interpretations on CD-ROM

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IHS TX10

American Petroleum Institute (API)

Pressure Vessel Inspection Code: Maintenance Inspection, Rating, Repair & Alteration

Covers the maintenance inspection, repair, alteration, and rating procedures for pressure vessels used by the petroleum and chemical process industries. Applies to vessels that have been placed in service and have been inspected by an authorized inspection agency or repaired by a repair organization.

API 510

American Petroleum Institute (API)



Pressure Vessel Inspection Code: Maintenance Inspection, Rating, Repair & Alteration

Covers the maintenance inspection, repair, alteration, and rating procedures for pressure vessels used by the petroleum and chemical process industries. Applies to vessels that have been placed in service and have been inspected by an authorized inspection agency or repaired by a repair organization.

API 510

Sizing, Selection, and Installation of Pressure - Relieving Devices in Refineries

Part I - Sizing and Selection

Applies to the sizing and selection of pressure relief devices for equipment that has a maximum allowable working pressure (MAWP) of 15 psig (103 kPag) or greater.

API RP 520 P1

Part II - Installation

Covers the methods of installation for pressure relief devices for equipment that has a maximum allowable working pressure (MAWP) of 15 psig (1.03 bar g) or greater.

API RP 520 P2

Inspection of Pressure Vessels (Towers, Drums, Reactors, Heat Exchangers, & Condensers)

Covers the inspection of pressure vessels. It includes a description of the various types of pressure vessels and the standards that can be used for their construction and maintenance. The reasons for inspection, the causes of deterioration, the frequency and methods of inspection, the methods of repair, and the preparation of records and reports are also covered. Safe operation is emphasized.

API RP 572

Digest of State Boiler, Pressure Vessel, Piping and Above Ground Storage Tank Rules and Regulations

API PUBL 910

American Society of Mechanical Engineers (ASME)

Section V: Nondestructive Examination

ASME S00050

Section VIII: Pressure Vessels Division 1

ASME S00081

Section IX: Qualification Standard for Welding and Brazing Procedures, Welders, Brazers, and Welding and Brazing Operators

ASME S00090

Power Piping

Prescribes minimum requirements for the design, materials, fabrication, erection, test, and inspection of power and auxiliary service piping systems for electric generation stations, industrial institutional plants, central and district heating plants. Includes Code Case #25.

ASME B31.1

Process Piping

ASME B31.3

Boiler & Pressure Vessel Code



ASME International Accreditation Standards



The following related standards are necessary for accreditation purposes.

Power Piping

Prescribes minimum requirements for the design, materials, fabrication, erection, test, and inspection of power and auxiliary service piping systems for electric generation stations, industrial institutional plants, central, and district heating plants. Includes Code Case #25.

[ASME B31.1](#)

Pressure Relief Devices

[ASME PTC 25](#)

Quality Assurance Requirements for Nuclear Facilities Applications

[ASME NQA 1](#)

Section V: Nondestructive Examination

[ASME S00050](#)

Section VIII: Pressure Vessels Division 1

[ASME S00081](#)

Section IX: Qualification Standard for Welding and Brazing Procedures, Welders, Brazers, and Welding and Brazing Operators

[ASME S00090](#)

Power Piping

Prescribes minimum requirements for the design, materials, fabrication, erection, test, and inspection of power and auxiliary service piping systems for electric generation stations, industrial institutional plants, central and district heating plants. Includes Code Case #25.

[ASME B31.1](#)

Process Piping

[ASME B31.3](#)

ASME International Standards Referenced in the ASME BPVC

Listed below are some of the critical standards referenced in the ASME BPVC.

Scheme for Identification of Piping Systems

This standard is intended to establish a common system to assist in identification of hazardous materials conveyed in piping systems and their hazards when released in the environment. This scheme concerns identification of contents of piping systems in industrial and power plants. It is also recommended for the identification of piping systems used in commercial and institutional installations, and in buildings used for public assembly. It does not apply to pipes buried in the ground nor to electrical conduits.

[ANSI A13.1](#)

Pipe Flanges & Flanged Fittings

Covers pressure-temperature ratings, materials, dimensions, tolerances, marking, testing, and methods of designating openings for pipe flanges and flanged fittings in sizes NPS 1/2 through NPS 24 and in rating Classes 150, 300, 400, 600, 900, 1500, and 2500. Flanges and flanged fittings may be cast, forged, or (for blind flanges and certain reducing flanges only) plate materials as listed in Table 1A. Requirements and recommendations regarding bolting and gaskets are also included.

[ANSI B16.5](#)

Cast Bronze Threaded Fittings Class 125 & 250

[ANSI B16.15](#)

Process Piping

[ASME B31.3](#)

Personnel and Burden Carriers

[ANSI B56.8](#)

Knurling

[ANSI B94.6](#)

Controls and Safety Devices for Automatically Fired Boilers

[ASME CSD 1](#)

British Standards Institution (BSI)



Specification for Inspection, Access and Entry Openings for Pressure Vessels

[BS 470](#)

Pressure Vessel Details (Dimensions) - Part 1. Specification for Davits for Branch Covers of Steel Vessels

[BS 5276 P1](#)

Specification for Unfired Fusion Welded Pressure Vessels

[BS PD 5500](#)

Unfired Pressure Vessels

Part 1: General

[BS EN 13445-1](#)

Part 2: Materials

[BS EN 13445-2](#)

Part 3: Design

[BS EN 13445-3](#)

Part 4: Fabrication

[BS EN 13445-4](#)

Part 5: Inspection and Testing

[BS EN 13445-5](#)

Part 6: Requirements for the Design and Fabrication of Pressure Vessels and Pressure Parts Constructed from Spheroidal Graphite Cast Iron

[BS EN 13445-6](#)

Part 7: Guidance on the use of the Conformity Procedures

[BS PD CR 13445-7](#)

Boiler & Pressure Vessel Code



Deutsches Institut für Normung, e.V.
(DIN)



Technical Rules for Pressure Vessels

[AD MERKBLATTER](#)

Technical Delivery Conditions for Steel Castings for Pressure
Purposes - General

[DIN EN 10213 P1](#)

European Council/Commission Legislative Documents

Directive of the European Parliament and of the Council on
the Approximation of the Laws of the Member States
Concerning Pressure Equipment

[EEC/97/23](#)



British Standards Institution (BSI)

General Criteria for Supplier's Declaration of Conformity
[BS EN 45014](#)

American Society for Quality (ASQ)



The CE-MARK: Understanding the Medical Device Directive
[CE MARK UNDERSTANDING MDD](#)

British Standards Institution (BSI)



British Standards Institution (BSI) Membership Information
Companies located in the U.S. or Canada who buy a BSI membership are entitled to benefits that include a 29% discount on BSI standards, a 5% discount on related standards and specifications, monthly BSI updates, copies of the BSI catalog and a range of other services.
[BSI MEMBERSHIP](#)

General Criteria for Supplier's Declaration of Conformity
[BS EN 45014](#)

CE Marking for Pressure Equipment
[TH 42091](#)

European Committee for Standardization

The New Approach - Legislation and Standards on the Free Movement of Goods in Europe

Contains legislation and standards on the free movement of goods in Europe, the New Approach is formatted to guide you through the maze of requirements for selling goods in Europe. Includes: detailed analysis of the New Approach Directives and Harmonized Standards, references hundreds of adopted European Standards (EN), and standards in the process of being adopted.
[NEW APPROACH](#)

European Council/Commission Legislative Documents

Directive of the European Parliament and of the Council on the Approximation of the Laws of the Member States Concerning Pressure Equipment
[EEC/97/23](#)

Council Directive on the Harmonization of the Laws of Member State Relating to Electrical Equipment Designed for use Within Certain Voltage Limits
[EEC/73/23](#)

Council Directive on the Approximation of the Laws of the Member States Relating to Electromagnetic Compatibility
[EEC/89/336](#)

Electromagnetic Compatibility
See Also [EEC/91/263](#) & [EEC/92/31](#)
[EEC/92/31](#)

Council Directive Concerning Medical Devices
[EEC/93/42](#)

Amending Directives 87/404/EEC (Simple Pressure Vessels), 88/378/EEC (Safety Of Toys), 89/106/EEC (Construction Products), 89/336/EEC (Electromagnetic Compatibility), 89/392/EEC (Machinery), 89/686/EEC (Personal Protective Equipment), 90/384/EEC (NON-AUTO)
[EEC/93/68](#)

Modules for the Various Phases of the Conformity Assessment Procedures and the Rules for the Affixing and use of the CE Conformity Marking, Which are Intended to be used in the Technical Harmonization Directives
[EEC/93/465](#)

Directive of the European Parliament and of the Council on the Approximation of the Laws of the Member States Concerning Pressure Equipment
[EEC/97/23](#)

Directive 98/37/EEC of the European Parliament and of the Council of 22 June 1998 on the Approximation of the Laws of the Member States Relating to Machinery
[EEC/98/37](#)

NEMA Electrical Product



Conformity Assessment Guide

This guide is designed to be a practical handbook to facilitate the efforts of electrical and electronic manufacturers in introducing and marketing products in selected locations around the globe. It is divided into the three major geographical areas: The Americas, Asia, and Europe. It is further divided by country. Topics also include the IEC CB and IEC EX schemes.
[NEMA CONFORMITY ASSESS](#)

NEMA Electrical Product Acceptance in Europe: NEMA's Guide to Europe's New Approach Directives and CE Marking

Comprehensively reviews the three directives affecting NEMA products, i.e., machinery, EMC, and low voltage, as well as summary overviews of directives on medical devices and explosives atmospheres. NEMA Electrical explains the self-declaration process, third party certification, conformity compliance, and the relationship between different standards in directive compliance. Includes a glossary of frequently used terms, appendices of supporting information, and examples of required forms.
[NEMA ELECTRICAL PRODUCT](#)

CE Marking



SIMCOM

The European Union Electromagnetic Compatibility Directive: 89/336/EEC - A Technical Professional's Guidance Manual for Legal European Trade

Highlights include: EC Commission Interpretive Guidelines, an updated list of harmonized standards, detailed clarification on issues such as components and systems, explanation of when to test and when to use a Technical Construction File, and a complete list of Competent and Notified Bodies.

[SIMCOM ELECTROMAGNETIC](#)

The European Union's Low Voltage Directive 73/23/EEC: A Technical Professional's Guidance Manual for Legal European Trade

Highlights include: EC Commission Interpretive Standards and New standards. Includes a SIMCOM Compliance Verification Report book of your choice, a unique set of engineering handbooks to keep you in compliance with EN 60204-1 and EN 60950 or EN 61010-1.

[SIMCOM LOW VOLTAGE](#)

The European Union Machinery Directive: Compliance Manual for Trade

Highlights include: EC Commission Interpretive Guidelines, an updated list of EN Harmonized Standards, questions and answers approved by the 89/392 Committee, and a list of bodies notified under the Directive.

[SIMCOM MACHINERY](#)

European Commission Proposals for Amending the Machinery Directive 89/392/EEC

[SIMCOM MACHINERY AMEND](#)

The Machinery Manual, Accompanying the Overview Manual and the European Commission Proposals for Amending the Machinery Directive 89/392/EEC

[SIMCOM MACHINERY MANUAL](#)

An overview of the EUs New Approach Directives: Understanding the European Union's Single Internal Market

[SIMCOM OVERVIEW](#)

SIMCOM Compliance Verification Report (Cover): EN 60204-1

[SIMCOM COVER EN 60204-1](#)

SIMCOM Compliance Verification Report (Cover): EN 61010

[SIMCOM COVER EN 61010](#)

The Institute of Electrical & Electronics Engineers, Inc. (IEEE)



CE-Mark Handbook: The New European Legislation for Products

[IEEE CE-MARK HDBK](#)

CE Marking for Medical Devices: A Handbook to the Medical Devices Directives

[IEEE CE MARKING](#)

CE Marking for Telecommunications: A Handbook to the Telecommunications Directive

[IEEE CE MARKING FOR](#)

Underwriters Laboratories Inc., (UL)



By Demko a Subsidiary of UL

CE From A to Z, CE Marking According to the Machinery Low Voltage and EMC Directives

[CEE MARKING FROM A TO Z](#)



American National Standards Institute (ANSI)

Z535 Standards for Safety Signs and Colors Set

Includes ANSI Z535.1 through ANSI Z535.5

[ANSI Z535 SERIES](#)



American National Standards Institute (ANSI)

Z535 Standards for Safety Signs and Colors Set

Includes ANSI Z535.1 through ANSI Z535.5

[ANSI Z535 SERIES](#)

American Association of Textile Chemists and Colorists (AATCC)

Colorfastness to Acid and Alkalis

Test specimens are evaluated for resistance to simulated action of acid fumes, sizes, alkaline sizes, alkaline cleansing agents, and alkaline street dirt. These test methods are applicable to textiles made from all fibers in the form of yarns or fabrics, whether dyed, printed or otherwise colored.

[AATCC 6](#)

Colorfastness to Crocking: AATCC Crockmeter Method

This test method is designed to determine the amount of color transferred from the surface of colored textile materials to other surfaces by rubbing. It is applicable to textiles made from all fibers in the form of yarn or fabric whether dyed, printed or otherwise colored.

[AATCC 8](#)

Colorfastness to Light

This test method provides the general principles and procedures which are currently in use for determining the colorfastness to light of textile materials. The test options described are applicable to textile materials of all kinds and for colorants, finishes and treatments applied to textile materials.

[AATCC 16](#)

Antibacterial Finishes on Textile Materials: Assessment of

This test method provides a quantitative procedure for the evaluation of the degree of antibacterial activity. Assessment of antibacterial activity intended in the use of such materials.

[AATCC 100](#)

Colorfastness to Water

This test method is designed to measure the resistance to water of dyed, printed, or otherwise colored textile yarns and fabrics of all kinds.

[AATCC 107](#)

Oil Repellency: Hydrocarbon Resistance Test

This test method detects the presence of a fluorochemical finish, or other compounds capable of imparting a low energy surface, on all types of fabrics, by evaluating the fabric's resistance to wetting by a selected series of liquid hydrocarbons of different surface tensions.

[AATCC 118](#)

Water Resistance: Hydrostatic Pressure Test

This test method measures the resistance of a fabric to the penetration of water under hydrostatic pressure. It is applicable to all types of fabrics, including those treated with a water resistant or water repellent finish.

[AATCC 127](#)

CMC: Calculation of Small Color Differences for Acceptability

[AATCC 173](#)

AATCC Technical Manual of the American Association of Textile Chemists and Colorists

[AATCC TECHNICAL MANUAL](#)

American Petroleum Institute (API)



Using the API Color-Symbol System to Mark Equipment and Vehicles for Product Identification at Service Stations and Distribution Terminals.

A guide to the API color-symbol system for marking petroleum product distribution equipment and facilities and describes the use of the system to mark equipment and vehicles at service stations and distribution terminals. (Includes one 1637A color chart.)

[API RP 1637](#)

Equipment Marking Color Symbol System Chart

This chart displays each element of the equipment marking color-symbol for product identification at service stations and distribution terminals (in color). Two-sided, laminated.

[API PUBL 1637A](#)

Available only in packets of 10

ASTM International (ASTM)



ASTM Standards on Color and Appearance Measurement- 6th Edition

Contains 90 ASTM International standards and nine ISO and ISO/CIE standards used in appearance analysis for a variety of materials and products, such as Acoustical Materials, Petroleum Products, Plastics, Paints, Traffic Marking Materials, and Pavement Surfaces. Also includes a list of 99 related standards (title only).

[ASTM COLOR](#)

Includes CD-ROM

Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale)

This test method covers the visual determination of the color of a wide variety of petroleum products such as lubricating oils, heating oils, diesel fuel oils, and petroleum waxes.

[ASTM D 1500](#)

Standard Practice for Specifying Color by the Munsell System

[ASTM D 1535](#)

Color Charts & Standards



Electronic Industries Alliance (EIA)



Colors for Color Identification and Coding

This standard specifies the color ranges used to identify electronic components, equipment, and wire and cable insulation, and establishes a standard color-number relationship. Materials to be color coded are separated into two categories, and nominal colors and tolerance ranges are established for each. For instrumental testing, categories of specialized color charts are specified.

[EIA-359](#)

Federal Standards

Colors Used in Government Procurement - Vol. 1 - Std. and Color Samples

This standard presents the colors used by Government Activities in a format suitable for color selection, color matching and for quality control inspection. This document describes the designation and use of the color chips of this standard. For reference purposes, each color is reproduced within as a 1/2 x 1 inch sample.

[FED-STD-595 V1](#)

Colors Used in Government Procurement

Fan Deck - Suitable for color identification and selection.

[FED-STD-595 FAN DECK](#)

[FED-STD-595](#)

International Organization for Standardization (ISO)



Graphic Technology - Colour and Transparency of Ink Sets for Four-Colour-Printing - Part 1: Sheet - Fed and Heat - Set Web Offset Lithographic Printing

[ISO 2846-1](#)

Graphic Technology - Colour and Transparency of Ink Sets for Four-Colour-Printing - Part 2: Coldset Offset Lithographic Printing

[ISO 2846-2](#)

CIE Standard Colormetric Illuminants

[ISO 10526](#)

CIE Standard Colormetric Observers

[ISO/CIE 10527](#)

Munsell Products

Munsell Book of Color Glossy Collection

Two volume set of removable color chips arranged on 40 constant hue charts, plus 4 Munsell Gray charts and 3 supplementary color charts.

[MUNSELL BOOK OF COLOR](#)

Munsell Color Charts for Color Coding

This Fourth Edition has been widely adopted throughout the world, as well as by EIA. Color regions are specified for ten color names: Red, Orange, Brown, Yellow, Green, Blue, Violet (Purple), White, Gray (Slate) and Black. Each chart defines the Centroid color and the permissible tolerances.

[MUNSELL COLOR CHARTS](#)

Includes 8 1/2 x 11 Chart, 3 x 5 Swatches, and Loose-leaf Binder.

Munsell Soil Color Charts

[MUNSELL SOIL COLOR CHARTS](#)

Munsell 50051 (Aqua)

[MUNSELL 50051](#)

Munsell 50052 (Rose)

[MUNSELL 50052](#)

National Electrical Manufacturers Association (NEMA)



Safety Color Code

Contains information needed to specify colors for safety signs used in environmental and facility applications, and for accident prevention tags used to alert persons to temporary hazards.

[ANSI Z535.1](#)

Environmental and Facility Safety Signs

Contains information needed to specify formats used in environmental and facility applications.

[ANSI Z535.2](#)

Criteria for Safety Symbols

Contains information needed to specify formats and symbols for safety signs and accident prevention tags used in environmental and facility applications and for product applications.

[ANSI Z535.3](#)

Product Safety Sign and Label

Contains information needed to specify formats for safety signs used in product applications.

[ANSI Z535.4](#)

Accident Prevention Tags

Contains information needed to specify formats, colors, and symbols of safety tags used to alert persons to temporary hazards.

[ANSI Z535.5](#)

Z535 Standards for Safety Signs and Colors Set

Includes ANSI Z535.1 through ANSI Z535.5.

[ANSI Z535 SERIES](#)

[ANSI Z535 SERIES CD](#)

Safety Color Chart

For Information and Use with ANSI Z535.1 through ANSI Z535.5.

[ANSI Z535 COLOR CHART](#)

Color Charts & Standards



SAE International (SAE)



**Colors, Aeronautical Lights and Lighting Equipment,
General Requirements for**

[SAE AS 25050](#)

**Color Tolerance Set - Color Charts for SAE J1128 - (Low
Tension Primary Cable)**

[SAE EA 1128](#)

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Finishes, Textiles and Colored Trim**

[SAE J1545](#)

The Institute of Electrical & Electronics Engineers, Inc. (IEEE)



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American Association of State Highway Transportation Officials (AASHTO)



American Association of State Highway and Transportation Officials (AASHTO) Publications Catalog
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Guide for Design of Pavement Structures
[AASHTO GDPS](#)

Standard Specifications for Highway Bridges
Interim HBI-97 to HBI-02
[AASHTO HB](#)

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LRFD Bridge Design Specifications SI Units
Includes Interim
[AASHTO LRFD SI \(METRIC\)](#)

Standard Specification for Transportation Materials and Methods of Sampling and Testing
[AASHTO HM](#)

Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals
[AASHTO LTS](#)

American Concrete Institute (ACI)

Specifications for Structural Concrete
[ACI 301](#)

Specifications for Structural Concrete (Metric)
[ACI 301M](#)

Guide for Measuring, Mixing, Transporting and Placing Concrete
[ACI 304R](#)

Building Code Requirements for Structural Concrete and Commentary
[ACI 318-02](#)

Building Code Requirements for Structural Concrete (ACI 318-02) and Commentary (ACI 318R-02)
[ACI 318/318R](#)

Guide to Framework for Concrete
[ACI 347](#)

Building Code Requirements for Masonry Structures & Specification for Masonry Structures and Related Commentaries
[ACI 530](#)

Manual of Concrete Practice Parts 1-6
[ACI MCP SET](#)
[ACI MCP SET CD](#)

American Institute of Steel Construction (AISC)

Manual of Steel Construction ASD
[AISC M016](#)

Manual of Steel Construction Volume II - Connections
[AISC M017](#)

ASD Manual V.#1: Manual of Steel Construction Allowable Stress Design V.#2 Manual of Steel Construction Connections
Two-volume set.
[AISC M021](#)

LRFD Manual of Steel Construction
Incorporates AISC M018, M019 and M020L.
[AISC M025](#)

A Guide to Engineering and Quality Criteria for Steel Structures
[AISC S323](#)

American Society of Heating, Refrigerating & Air Conditioning Engineers (ASHRAE)

Ventilation for Acceptable Indoor Air Quality
[ASHRAE STD 62](#)

American Society of Heating, Refrigerating & Air Conditioning Engineers (ASHRAE)



Laboratory Methods of Testing Fans for Rating
[ASHRAE STD 51](#)

Ventilation for Acceptable Indoor Air Quality
[ASHRAE STD 62](#)

Energy Standard for Buildings Except Low-Rise Residential
[ASHRAE STD 90.1](#)

Method of Testing to Determine Flow Resistance of HVAC Ducts and Fittings
[ASHRAE STD 120](#)

Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs
[ASHRAE STD 140](#)

American Society of Mechanical Engineers (ASME)

Safety Code for Elevators and Escalators
[ASME A17.1](#)



American Welding Society (AWS)

Bridge Welding Code

This code covers the welding requirements for AASHTO welded highway bridges made from carbon and low-alloy constructional steels. This edition contains dimensions in metric SI Units and U.S. Customary Units. Sections 1 through 7 constitute a body of rules for the regulation of welding and in steel construction. Section 9 of the previous edition has had its provisions distributed throughout this edition. Sections 8, 10, and 11 do not contain provisions, as their analogue D1.1 sections are not applicable to the D1.5 Code. Section 12 contains the requirements for fabricating fracture critical members.

[AASHTO/AWS D1.5M/D1.5](#)

American Welding Society (AWS)

The AWS codes and standards listed below, are described in detail in the 'Welding Section' of this catalog.



Standard Symbols for Welding, Brazing, and Nondestructive Examination

Please see page 88 for a complete description.

[AWS A2.4](#)

Standard Welding Terms and Definitions; Including Terms for Adhesive Bonding, Brazing, Soldering, Thermal Cutting, and Thermal Spraying

Please see page 89 for a complete description.

[AWS A3.0](#)

Structural Welding Code - Steel

[AWS D1.1/D1.1 M](#)

Structural Welding Code - Aluminum

Please see page 89 for a complete description.

[AWS D1.2](#)

Structural Welding Code - Sheet Steel

Please see page 86 for a complete description.

[AWS D1.3](#)

Structural Welding Code - Reinforcing Steel

Please see page 147 for a complete description.

[AWS D1.4](#)

Bridge Welding Code

Please see page 151 for a complete description.

[AASHTO/AWS D1.5M/D1.5](#)

Structural Welding Code - Stainless Steel

Please see page 147 for a complete description.

[AWS D1.6](#)

Sheet Metal Welding Code

[AWS D9.1M/D9.1](#)

ASME International



Safety Code for Elevators and Escalators

[ASME A17.1](#)

Inspector's Manual for Elevators & Escalators

[ASME A17.2](#)

Safety Standard for Low Lift & High Lift Trucks

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ASTM International



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Section 4- Construction

[ASTM SECTION 4](#)

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[ASTM BUILDING CODES](#)

Standard Terminology of Building Constructions

[ASTM E 631](#)

British Standards Institute (BSI)



Code of Practice Fire Precautions in the Design, Construction and Use of Buildings

Parts 1, 4, 5, 6, 7, 8, 9, 10, 11

[BS 5588 \(Part 1 through Part 11\)](#)

Design Management Systems - Part 4. Guide to Managing Design in Construction

[BS 7000 P4](#)

Code of Practice for Sound Insulation and Noise Reduction for Buildings

[BS 8233](#)

Special Requirements for Construction, Testing and Marking of Electrical Apparatus of Equipment Group II, Category 1 G

[BS EN 50284](#)

Builders Hardware Manufacturers Association (BHMA)

Door Controls - Closers

[ANSI A156.4](#)

Cabinet Hardware

[ANSI A156.9](#)

Power Operated Pedestrian Doors

[ANSI A156.10](#)



Materials and Finishes

[ANSI A156.18](#)

Power Assist and Low-Energy Power-Operated Doors

[ANSI A156.19](#)

Building Industry Consulting Service International (BICSI)



Cable Installation Manual

BICSI's Cable Installation Manual is the ideal job function-related reference manual for telecommunications cabling installers. Based on the latest industry standards and codes, the manual provides cabling installation personnel with guidelines (including appropriate "how to" information) necessary to perform specific tasks of their job.

[BICSI CABLE INSTALLATION](#)

Telecommunications Distribution Methods Manual

Extremely valuable to telecommunications infrastructure designers of commercial and multi-family residential buildings the Telecommunications Distribution Methods Manual (TDMM), provides a comprehensive overview of telecommunications distribution, from design through construction, installation, and maintenance.

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Building Officials & Code Administrators (BOCA)

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[BOCA NATL BUILDING CODE](#)

BOCA International Mechanical Code

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BOCA International Plumbing Code

[BOCA INTL PLUMBING CODE](#)

BOCA National Fire Prevention Code

[BOCA NATIONAL FIRE CODE](#)

BOCA National Plumbing Code

[BOCA NATIONAL PLUMBING CODE](#)

Canadian Standards Organization



Construction Plus- A Guide to CSA Construction Standards

[CSA PLUS 4000](#)

Canadian Electrical Code - Part 1: Safety Standard for Electrical Installations

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[CSA C22.1](#)

Canadian Electrical Code - Part 1

Looseleaf version

[CSA C22.1 \(LL\)](#)

General Requirements - Canadian Electrical Code, Part II

[CSA C22.2 #0](#)

Deutsches Institut für Normung, e.V. (DIN)



Mechanical Engineering

[DIN HDBK 1](#)

Mechanical Engineering - Basic Standards 2

[DIN HDBK 3](#)

Building and Civil Engineering 3 - Standards for Timber Construction

[DIN HDBK 34](#)

Building and Civil Engineering 6 - Standards for Plain and Reinforced Concrete Construction

[DIN HDBK 37](#)

Building and Civil Engineering 10 - Standards for Housing Construction

[DIN HDBK 110](#)

Design Loads for Building; Live Loads

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FM Approvals (Factory Mutual)



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International Association of Plumbing & Mechanical Officials (IAPMO)

Plastic Bathtub Units

[ANSI Z124.1](#)

Plastic Shower Units

[ANSI Z124.2](#)

Plastic Lavatories

[ANSI Z124.3](#)

Plastic Water Closet Bowls and Tanks

[ANSI Z124.4](#)



Plastic Toilet (Water Closet) Seats

ANSI Z124.5

Plastic Sinks

ANSI Z124.6

International Conference of Building Officials (ICBO)

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Uniform Building Code is the most widely adopted model building code in the world. Provides complete coverage of all aspects of building design and construction relating to life, fire and structural safety. Includes Code Central CD-ROM and Quickstart Guide.

[ICBO BUILDING CODE](#)

International Conference of Building Officials (ICBO)



Guidelines for Accessible and Usable Buildings and Facilities

ANSI A117.1

One and Two Family Dwelling Code

[CABO ONE & TWO FAMILY LL](#)

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International Building Code on CD-ROM

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International Plumbing Code

[ICBO INTERNATIONAL CODE](#)

International Fire Code

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International Mechanical Code

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Uniform Mechanical Code

[ICBO MECHANICAL CODE](#)

International Organization for Standardization (ISO)



Building Construction Machinery and Equipment - Terms and Definitions

[ISO 11375](#)

Building Construction - Tolerances - Expression of Dimensional Accuracy - Principles and Terminology

[ISO 1803](#)

Fire-Resistance Tests - Elements of Building Construction - Part 1: General Requirements

[ISO 834-1](#)

MEANS Publications

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NACE International (NACE)

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National Electrical Safety Code (NESC)

Please see page 51 for a complete description.

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National Fire Protection Association (NFPA)

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The NEC Handbook is the official “user guide” to the National Electrical Code. It includes extra facts and figures necessary in helping you interpret the new NEC. Provides expert commentary, examples, diagrams, and illustrations.

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NACE International (NACE)

National Electrical Safety Code (NESC)

Please see page 51 for a complete description.

[IEEE C2](#)

National Fire Protection Association (NFPA)



Installation of Sprinkler Systems

[NFPA 13](#)

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Standard Mechanical Code [SBCCI MECHANICAL CODE](#)

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Telecommunications Industry Association (TIA)



Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications

The purpose of this standard is to enable the planning, design, and installation of telecommunications grounding and bonding systems within a building with or without prior knowledge of the telecommunications systems that will subsequently be installed. This standard also provides recommendations for grounding and bonding of customer owned towers and antennas. This telecommunications grounding and bonding infrastructure supports a multivendor, multiproduct environment as well as various system installation practices.
[J-STD-607](#)

TIA/EIA Telecommunications Building Wiring Standards Collection

Please see page 132 for a complete description.
[TIA/EIA WIRING CD](#)

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Commercial Building Telecommunications Cabling Standards - Part 1: General Requirements

Specifies a generic telecommunications cabling system for commercial buildings that will support a multi-product, multi-vendor environment.
[TIA/EIA-568-1](#)

Commercial Building Telecommunications Cabling Standards - Part 2: Balanced Twisted-Pair Cabling Components

Specifies cabling components, transmission, system models, and the measurement procedures needed for verification of balanced twisted-pair cabling.
[TIA/EIA-568-2](#)

Optical Fiber Cabling Components Standard

Specifies the component and transmission requirements for an optical fiber cabling system (e.g., cable, connectors).
[TIA/EIA-568-3](#)

Commercial Building Telecommunications Cabling Standards Set

Includes: Part I: General Requirements, Part II: Balanced Twisted-Pair Cabling Components and Part III: Optical Fiber Cabling Components Standard.
[TIA/EIA-568 SET](#)
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Commercial Building Standard for Telecommunications Pathways and Spaces

This document encompasses telecommunications considerations both within and between buildings. The aspects covered are the pathways into which telecommunications media are placed, and the rooms and areas associated with the building used to terminate media and install telecommunications equipment.
[TIA/EIA-569](#)

Administration Standard for the Telecommunications Infrastructure of Commercial Buildings

The purpose and intent of this document is to provide a uniform administration scheme that is independent of applications, which may change several times throughout the life of a building. This standard establishes guidelines for owners, end users, manufacturers, consultants, contractors, designers, installers, and facilities administrators involved in the administration of the telecommunications infrastructure or related administration system.
[TIA/EIA-606](#)

Underwriters Laboratories (UL)



Heating and Cooling Equipment [UL 1995](#)

Test for Surface Burning Characteristics of Building Materials [UL 723](#)

Fire Dampers [UL 555](#)

Ceiling Dampers [UL 555C](#)

Smoke Dampers [UL 555S](#)



American National Standards Institute (ANSI)

Dimensioning and Tolerancing - Includes Inch and Metric

This standard establishes uniform practices for stating and interpreting dimensioning, tolerancing, and related requirements for use on engineering drawings and in related documents. For a mathematical explanation of many of the principles in this standard, see ASME Y14.5.1m. Practices unique to architectural and civil engineering, land, welding symbology are not included.

[ANSI Y14.5M](#)

American National Standards Institute (ANSI)



Dimensioning and Tolerancing - Includes Inch and Metric

This standard establishes uniform practices for stating and interpreting dimensioning, tolerancing, and related requirements for use on engineering drawings and in related documents. For a mathematical explanation of many of the principles in this standard, see ASME Y14.5.1m. Practices unique to architectural and civil engineering, land, welding symbology are not included.

[ANSI Y14.5M](#)

ASME International (ASME)

Engineering Drawing Practices

This standard establishes the essential requirements and reference documents applicable to the preparation and revision of engineering drawings and associated lists. In general terms of addressing the subject area of engineering drawing practices, this standard should be used in close conjunction with ASME Y14.24M, ASME Y14.34M, and ASME Y14.35M.

[ANSI Y14.100](#)

ASME International (ASME)



Preferred Metric Limits and Fits

[ANSI B4.2](#)

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See list below for the standards contained within the ASME Y14 Series.

Volume 1

Decimal Inch Drawing Sheet Size and Format

This standard defines decimal inch sheet sizes and formats for engineering drawings.

[ANSI Y14.1](#)

Metric Drawing Sheet Size and Format

This standard defines metric sheet sizes and formats for engineering drawings.

[ANSI Y14.1M](#)

Line Conventions and Lettering

This standard establishes the line and lettering practices for use in the preparation of engineering drawings. It includes the recognition of the requirements for photographic reduction and reproduction, including microfilm, as well as the conventional methods of reproduction.

[ANSI Y14.2M](#)

Multi and Sectional View Drawings

This standard establishes the requirements for creating orthographic views for item description. Space geometry and space analysis and applications are included in the appendices for informational purposes.

[ANSI Y14.3M](#)

Pictorial Drawing

This standard establishes definitions for and illustrates the use of various kinds of three dimensional view pictorial mechanical drawings. It also addresses the kinds of pictorial views commonly used on engineering drawings. Methods of constructing the different kinds of pictorial drawings are beyond the scope of this standard. Methods are described in detail in engineering drawing textbooks.

[ANSI Y14.4M](#)

Dimensioning and Tolerancing - Includes Inch and Metric

This standard establishes uniform practices for stating and interpreting dimensioning, tolerancing, and related requirements for use on engineering drawings and in related documents. For a mathematical explanation of many of the principles in this standard, see ASME Y14.5.1m. Practices unique to architectural and civil engineering, land, welding symbology are not included.

[ANSI Y14.5M](#)

Mathematical Definition of Dimensioning and Tolerancing Principals

This standard presents a mathematical definition of geometrical dimensioning and tolerancing consistent with the principles and practices of ASME Y14.5m-1994.

[ANSI Y14.5.1M](#)

Screw Threads Representation

This standard establishes requirements for pictorial representation, specification, and dimensioning of screw threads on drawings; it is not concerned with standards for dimensional control of screw threads.

[ANSI Y14.6](#)



Volume 2

Gear Drawing Standards - Part 1 for Spur, Helical, Double Helical and Rack

This standard sets forth methods to be followed for specifying drawing data for gears operating on axes which are parallel. It is the purpose of this standard to provide formats, nomenclature, and definitions for the following types of gears: Spur, Helical, Double-Helical, and Spur and Helical Racks. The minimum data for the various gear types are defined. Where additional data are required, methods for specifying these data are shown. Slight deviations for critical applications are recognized, provided general formats are maintained.

[ANSI Y14.7.1](#)

Gear and Spline Drawing Standards Part 2 - Bevel and Hypoid Gears

This standard establishes methods to be followed in specifying data for gears with intersecting axes (bevel gears), and non-parallel, non-trisecting axes (hypoid gears). It also discusses the method of specifying matched sets on a gear drawing.

[ANSI Y14.7.2](#)

Casting and Forgings

This standard covers the definition of terms and features unique to casting and forging technologies with recommendations for their uniform description and inclusion on engineering drawings and related documents. Unless otherwise specified, any reference to features, parts, or processes shall be interpreted as applying to both castings and forgings. Castings and forgings are delineated as casting/forging throughout the standard.

[ANSI Y14.8M](#)

Mechanical Spring Representation

This standard establishes uniform methods for specifying end product data on drawings for mechanical springs. A mechanical spring is defined as an elastic body whose mechanical function is to store energy when deflected by a force and to return the equivalent amount of energy upon being release.

[ANSI Y14.13M](#)

Types and Applications of Engineering Drawings

This standard defines the types of engineering drawings most frequently used to establish engineering requirements. It describes typical applications and minimum content requirements. Drawings for specialized engineering disciplines (e.g., marine, civil, construction, optics, etc.) are not included in this standard.

[ASME Y14.24](#)

Parts Lists, Data Lists, and Index Lists: Associated Lists

This standard establishes the minimum requirements for the preparation and revision of parts lists, data lists, and index lists. In addition, this standard presents certain options that may be incorporated into parts lists, data lists, index lists, application lists, indented data lists, and wire lists at the discretion of the design activity.

[ANSI Y14.34M](#)

Revision of Engineering Drawings and Associated Documents

This standard defines the practices for revising drawings and associated documentation and establishes methods for identification and recording revisions. The revision practices of this standard apply to any form of original drawing and associated documentation.

[ANSI Y14.35M](#)

Surface Texture Symbols

This standard establishes the method to designate controls for surface texture of solid materials. It includes methods for controlling roughness, waviness, and lay by providing a set of symbols for use on drawings, specifications, or other documents. This standard does not specify the means by which the surface texture is to be produced or measured to metric SI units.

[ANSI Y14.36M](#)

Abbreviations and Acronyms

The abbreviations and acronyms, hereinafter referred to as "abbreviations," listed in this standard are used on engineering drawings and related documentation.

[ASME Y14.38](#)

Engineering Drawing Practices

This standard establishes the essential requirements and reference documents applicable to the preparation and revision of engineering drawings and associated lists. In general terms of addressing the subject area of engineering drawing practices, this standard should be used in close conjunction with ASME Y14.24M, ASME Y14.34M, and ASME Y14.35M.

[ASME Y14.100](#)

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Standard Guide for Selection of Scales for Metric Building Drawings

[ASTM E 713](#)

Practice for Security Engineering Symbols

[ASTM F 967](#)

Standard Practice for Piping System Drawing Symbols

[ASTM F 1000](#)

British Standards Institution (BSI)



Engineering Drawing Practice - Part 2: Recommendations for Dimensioning and Tolerancing of Size

[BS 308 P2](#)

Recommendations for Graphic Symbols and Abbreviations for Fire Protection Drawings

[BS 1635](#)

Construction Drawings - Designation Systems - Part 1: Buildings and Parts of Buildings

[BS EN ISO 4157 P1](#)

Construction Drawings - Designation Systems - Part 2: Room Names and Numbers

[BS EN ISO 4157 P2](#)

Construction Drawings - Designation Systems - Part 3: Room Identifiers

[BS EN ISO 4157 P3](#)

Technical Drawings - Screw Threads and Threaded Parts - Part 1: General Conventions

[BS EN ISO 6410-1](#)

Technical Drawings - Screw Threads and Threaded Parts - Part 2: Screw Thread Inserts

[BS EN ISO 6410-2](#)

Technical Drawings - Screw Threads and Threaded Parts - Part 3: Simplified Representation

[BS EN ISO 6410-3](#)

Construction Drawings - Simplified Representation of Demolition and Rebuilding

[BS EN ISO 7518](#)

Construction Drawings - Spaces for Drawing and for Text, and Title blocks on Drawing Sheets

[BS EN ISO 9431](#)

Construction Drawings - Landscape Drawing Practice

[BS EN ISO 11091](#)

CSA International (CSA)



Technical Drawings - General Principles

[CSA B78.1](#)

Dimensioning and Tolerancing of Technical Drawings

[CSA B78.2](#)

Building Drawings

[CSA B78.3](#)

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Terms in Drawings and Parts Lists; Parts Lists

[DIN 199 P2](#)

Engineering Drawing Practice Dimensioning Concepts and General Principles

[DIN 406 P10](#)

Relationship Between Tolerances of Size, Form, and Parallelism; Envelope Requirement Without Individual Indication on the Drawing

[DIN 7167](#)

General Tolerances for Linear and Angular Dimensions and Geometrical Tolerances (Not to be used for New Designs)

See also ISO 2768-1 & -2 for New Designs.

[DIN 7168](#)

Safety of Machinery; Rules for Drafting and Presentation of Safety Standards

[DIN EN 414](#)

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For the use in the preparation of engineering drawings for commercial products including access to military requirements that are in excess of commercial applications. The DRM 10th edition is a complete up-to-date compliance resource on how to prepare engineering drawings to meet the requirements of industry for commercial products while meeting the requirements of the Department of Defense (DoD) contracts. The DRM is also a valuable reference for engineers, designers, drafters, machinists, and quality control inspectors who need to understand drawing requirements and interpretations. The DRM 10th edition is in compliance with ASME Y14.100-2000 and MIL-DTL-31000B including Metric. Superseding ASME Y14.100M-1998, MIL-DTL-31000A Am1 & the cancellation of MIL-STD-100G. What's New in the 10th edition DRM: With the approval of ASME Y14.100-2000 including Appendices A thru E, it became apparent that the 9th edition of the DRM (1995) be updated to the 10th edition (2000). The DRM 10th edition reflects the recommendations since 1995 to the present for the mandatory use of commercial standards and specifications for DoD contracts and applications whenever practical. Progress made by DoD agencies to review all Government standards and specifications to determine if they can be replaced by Non-Government Standards or revised and re-identified as a Performance specification (PRF). Those standards retained as an exact design solution for Government requirements, are reidentified as a Detail specification (DTL) and require a waiver for their use - in compliance with the Acquisition Reform Policy Memo 98-2. Between 1995 and 2000, one hundred eighteen (118) specifications and standards listed in Section 1 of the DRM and related to the preparation of engineering drawings as applicable documents to ASME Y14.100-2000 and MIL-STD-100G have undergone changes including cancellation, being superseded, added as new, or revised. These specifications and standards are listed in the introduction of the DRM 10th and include their status. The DRM 10th edition also describes how the military requirements of the canceled MIL-STD-100G that now appear as Appendices A through E of ASME Y14.100-2000 are involved in part or in whole to satisfy a DoD contract.

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General Rules for the Preparation of Outline Drawings of Integrated Circuits Small Outline J-Lead Packages

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[ISO 1101](#)

Geometrical Product Specifications (GPS) - Indication of Surface Texture in Technical Product Documentation

[ISO 1302](#)

Technical Drawings - Geometrical Tolerancing - Datums and Datum-Systems for Geometrical Tolerances

[ISO 5459](#)

Accuracy (Trueness and Precision) of Measurement Methods and Results - Part 1: General Principles and Definitions

[ISO 5725-1](#)

Accuracy (Trueness and Precision) of Measurement Methods and Results - Part 2: Basic Method for the Determination of Repeatability and Reproducibility of a Standard Measurement Method

[ISO 5725-2](#)

Technical Drawings - Fundamental Tolerancing Principle

[ISO 8015](#)

Optics and Optical Instruments - Preparation of Drawings for Optical Elements and Systems - Part 1: General

[ISO 10110-1](#)

Optics and Optical Instruments - Preparation of Drawings for Optical Elements and Systems - Part 2: Material Imperfections - Stress Birefringence

[ISO 10110-2](#)

Technical Drawings - Edges of Undefined Shape - Vocabulary and Indications

[ISO 13715](#)

Technical Drawings - Volume 1: Technical Drawings in General - Mechanical Engineering Drawings - Construction Drawings

[ISO HDBK TECH DRAWINGS V1](#)



Japanese Standards Association (JSA)

Technical Drawings - Plotters - Vocabulary

[JIS B 0025](#)

Technical Drawings - Method of Indicating Surface Texture on Drawings

[JIS B 0031](#)

Technical Drawing - Dimensioning

[JIS Z 8317](#)

Technical Drawing - Tolerancing of Linear and Angular Dimensions

[JIS Z 8318](#)

Military and Government Documents

Technical Data Packages

[MIL-DTL-31000](#)

Standardized Military Drawings

[MIL-HDBK-780](#)

Policy and Procedures for Project Drawing and Specifications Preparation

[MIL-HDBK-1006/1](#)

Global Engineering Documents®



Complete Set of MS/AN/AND Standard Drawings with Index

The MS Drawings Set is the single most useful source of standards drawings information for those who design, construct, procure, or maintain equipment for military applications. The MS Set is a collection of nearly 7,000 current U.S. Military Standard (MS), Air Force-Navy Aeronautical Standard (AN), and Air Force-Navy Design Standard (AND) drawings. The MS Set covers every aspect of hardware, components and fittings in a multitude of applications.

[MS SET](#)

[MS SET RENEWAL](#)

MS Drawings Index - Index to AN, AND and MS Drawings Standards

Organized into Inch and Metric sections, each containing numeric listings by document number and alphabetic listings by title. Includes number, title, revision level, date, and reaffirmation date if applicable. Updated Quarterly.

[MS INDEX](#)

Military Standard (MS) Drawings are available for individual purchase.

National Aerospace Standards (NAS)



An extensive collection that provides nearly 3,000 aerospace standards for components, design and process specifications aircraft, spacecraft, major weapon systems and all types of ground and airborne electronic systems. The NAS Set contains procurement documents for parts and components of high technology systems including fasteners, high-pressure hoses, fittings, high-density electrical connectors, and bearings. Major components, design standards, and process specifications are defined right down to the finished product. Heavily illustrated and includes parts numbers.

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Renewal for NAS Set

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[NAS SET RENEWAL](#)

Index to National Aerospace Standards

Organized into Inch and Metric sections, each section contains numeric listings by document number and alphabetic listings by title. Document listings include number, title, revision level, date, and reaffirmation date if applicable.

[NAS INDEX](#)

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Contains NA, NAM & DS Documents.

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NAS Standards are available for individual purchase.

The Illuminating Engineering Society of North America (IESNA)

Application of Luminaire Symbols on Lighting Design Drawings

[IESNA DG 3](#)

Interpreting Engineering Drawings

[IESNA PB 112](#)

US Pro Trident Research Center

Initial Graphics Exchange Specifications

[IGES](#)

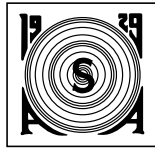
[IGES CD](#)

IGES Recommended Practice Guide

[IGES RECOMMENDED](#)



Acoustical Society of America (ASA)



Acoustical Terminology

This standard provides definitions for a wide variety of terms, abbreviations, and letter symbols used in acoustics and electroacoustics.
[ANSI S1.1](#)

Sound Level Meters

This standard includes an optional impulse exponential-time averaging characteristic, inclusion of an optional peak characteristics, more rigorous definition of the dynamic characteristics for the Fast and Slow exponential-time-averaging, increase in the crest factor requirement to ten for type 1 instruments, specification of a type 0 laboratory instrument with generally smaller tolerance limits than those previously specified for type 1, and deletion of the type 3 survey instrument.

[ANSI S1.4](#)

Octave Band and Fractional-Octave Band Analog and Digital Filters

This standard provides performance requirements for fractional-octave-band bandpass filters, including, in particular, octave-band and one-third-octave-band filters. Basic requirements are given by equations with selected empirical constants to establish limits on the required performance. The requirements are applicable to passive or active analog filters that operate on continuous-time signals, to analog and digital filters that operate on discrete-time signals and to fractional-octave-band analyses synthesized from narrow-band spectral components.

[ANSI S1.11](#)

Methods for the Measurement of Sound Pressure Levels in Air

This standard specifies requirements and describes procedures for the measurement of sound levels in air at a single point in space. These requirements and procedures apply primarily to measurements performed indoors but may be utilized in outdoor measurements under specified conditions.

[ANSI S1.13](#)

Acoustical Calibrators

This standard specified performance requirements for coupler-type acoustical calibrators. For each microphone type that may be used with the calibrator, requirements include the sound pressure level in the coupler, the frequency of the sound, and the determination of the influence of atmospheric pressure, temperature, humidity, and magnetic fields on the pressure level and frequency of the sound produced by the calibrator. Specifications are to be met within stated tolerances at each frequency and sound pressure level of operation.

[ANSI S1.40](#)

Design Response of Weighting Networks for Acoustical Measuring

This standard provides the design criteria for both the frequency-domain response (amplitude and phase) and time-domain response of the A-, B-, and C- weighting networks used in acoustically-related measurements.

[ANSI S1.42](#)

American National Standard Precision Methods for the Determination of Sound Power Levels of Broad-Band Noise Sources in Reverberation Rooms

[ANSI S12.31](#)

Aeronautical Radio Incorporated (ARINC)

Connectors, Electrical, Rack and Panel, Rectangular Rear Release Crimp Contacts

[ARINC 404B](#)

Mark 33 Digital Information Transfer System (DITS) - Parts 1, 2, and 3

[ARINC 429 SET](#)

Air Transport Avionics Equipment Interfaces

[ARINC 600](#)

American National Standards Institute (ANSI)



Rotating Electrical Machinery - Synchronous Machines

[ANSI C50.10](#)

Information Systems - Small Computer Systems Interface 2 (SCSI-2)

Defines an input/output bus for interconnecting computers and peripheral devices. It defines extensions to the Small Computer System Interface (ISO 9316:1989), referred to herein as SCSI-1.

[ANSI INCITS 131](#)

Information Systems - Bar Code Print Quality - Guideline

Covers the optical characteristics of a printed bar code symbol. This document shall be used with the appropriate application specifications, or symbology specifications, or both. The appropriate application specifications, or symbology specifications, or both, shall take precedence over this guideline.

[ANSI INCITS 182](#)

Information Technology - Fibre Channel - Physical and Signaling Interface (FC-PH)

Describes the physical and signalling interface of a high-performance serial link for support of the Upper Level Protocols (ULPs) associated with HIPPI, IPI, SCSI, IP, and others.

[ANSI INCITS 230](#)

Database Languages - SQL - Part 1: Framework (SQL/Framework)

[ANSI/ISO/IEC 9075-1](#)

Database Languages - SQL - Part 2: Foundation (SQL/Framework)

[ANSI/ISO/IEC 9075-2](#)

Information Technology - Database Languages - SQL - Part 3: Call-Level Interface (SQL/CLI)

[ANSI/ISO/IEC 9075-3](#)



Association Connecting Electronics Industries (IPC)



Acceptability of Printed Wiring Boards

Contains visual illustrations of preferred, acceptable, and rejectable conditions for: plated through holes; surface plating; solder coating; base materials, etching; conductors; mechanical processes; flexible and multilayer boards; bow/twist; flat cable; and other conditions in printed wiring fabrication.

[IPC-A-600](#)
[IPC-A-600 CD](#)

Acceptability of Electronic Assemblies

Includes 200 new illustrations. Provides visual acceptance requirements for electronic assemblies and addresses materials and acceptability criteria for producing quality soldered interconnections and assemblies.

[IPC-A-610](#)
[IPC-A-610 CD](#)

IPC Test Methods Manual

[IPC-TM-650](#)

Generic Standard on PWB Design

IPC-2221 is the foundation document for the rest of the documents in the IPC-2220 series. Establishes the generic requirements for the design of organic printed boards and other forms of component mounting or interconnecting structures, whether single-sided, double-sided or multilayer. Materials may be homogeneous, reinforced, or used in combination with inorganic materials.

[IPC-2221](#)
[IPC-2221 CD](#)

Specifications for Base Materials for Rigid and Multilayer Printed Boards

Covers the requirements for base materials (laminates and prepreg) to be used primarily for rigid or multilayer printed boards for electrical and electronic circuits.

[IPC-4101](#)
[IPC-4101 CD](#)

Generic Performance Specification for Printed Boards

This specification establishes the general requirements and responsibilities for suppliers and users of printed boards. Serving as the foundation for the IPC-6010 Board Performance Documents series, it describes quality and reliability assurance requirements that must be met.

[IPC-6011](#)
[IPC-6011 CD](#)

Qualification and Performance Specification for Rigid Printed Boards

This specification covers qualification and performance of rigid printed boards, including single-sided, double-sided, with or without plated-through holes, multilayer with or without blind/buried vias and metal core boards. Addresses final finish and surface plating coating requirements, conductors, holes/vias, as well as electrical, mechanical and environmental requirements. Revision A provides updated requirements in areas such as solder resist, plating and coating of void and minimum dielectric spacing.

[IPC-6012](#)
[IPC-6012 CD](#)

Rework of Electronic Assemblies

Covers procedures for reworking electronic assemblies, either as part of the manufacturing process or after the assemblies have been in the field. Describes the procedural requirements, tools, materials and methods to be used in removing and replacing conformal coatings, surface mount and through-hole components.

[IPC-7711](#)

Repair and Modification of Printed Boards and Electronic Assemblies

Covers procedures for modifying, reworking and repairing printed boards and printed board assemblies. Prescribes the procedural requirements as well as tools, materials and methods to be used in removing and replacing conformal coatings and solder resist material.

[IPC-7721](#)

Audio Engineering Society (AES)

AES Standard Method for Digital Audio Engineering - Measurement of Digital Audio Equipment

This standard provides methods for specifying and verifying the performance of digital audio equipment. Many tests are substantially identical to those used when testing analog equipment. However, because of the unique requirements of digital audio equipment and the effects of its imperfections, additional tests are necessary.

[AES17](#)



Audio Engineering Society (AES)



Global is the worldwide distributor of AES Standards and Publications, which are available in hardcopy or in electronic form. AES Standards are of interest to record companies, recording studios, television studios, and sound reinforcement companies.

AES Recommended Practice for Digital Audio Engineering - Serial Transmission Format for Two-Channel Linearly Represented Digital Audio Data

The format provides for the serial digital transmission of two channels of periodically sampled and uniformly quantized audio signals on a single shielded twisted wire pair. The transmission rate is such that samples of audio data, one from each channel, are transmitted in time division multiplex in one sample period. Provision is made for the transmission of both user and interface related data as well as of timing related data, which may be used for editing and other purposes. It is expected that the format will be used to convey audio data that have been sampled at any of the sampling frequencies recognized by the AES5.

[AES3](#)

AES Information Document for Digital Audio Engineering Transmission of AES 3 Formatted Data by Unbalanced Coaxial Cable

This document contains information regarding cables, cable equalizers, and receiver circuits including adaptors to or from standard AES3 equipment and cabling where it is required to transmit AES3 formatted signals over long distances (up to 1,000 m), or in a video installation using analog video distribution equipment. It is not intended to be an alternative electrical specification to AES3.

[AES-3ID](#)

AES Recommended Practice for Digital Audio Engineering - Serial Multi-Channel Audio Digital Interface (MADI)

This standard describes the data organization for a multi-channel-audio digital interface. It includes a bit level description, features in common with the AES3-1985 two channel format, and the data rates required for its utilization.

[AES10](#)

AES Information Document for Digital Audio Engineering - Engineering Guidelines for the Multi-Channel - Audio Digital Interface (MADI)

This document provides guidance for areas of application of the MADI standard (AES10) that might be unclear. It is not intended to replace AES10, but to supplement it in those areas that are not suitable for definition in a standards document.

[AES-10ID](#)

AES Standard Method for Digital Audio Engineering - Measurement of Digital Audio Equipment

This standard provides methods for specifying and verifying the performance of digital audio equipment. Many tests are substantially identical to those used when testing analog equipment. However, because of the unique requirements of digital audio equipment and the effects of its imperfections, additional tests are necessary.

[AES17](#)

Digital Audio Engineering - Serial Transmission Format for Two-Channel Linearly Represented Digital Audio Data

[ANSI S4.40](#)

British Standards Institution (BSI)



Specification for Intrinsically Safe Electrical Systems ‘i’

[BS 5501 P9](#)

Electrical Apparatus for Potentially Explosive Atmospheres - General Requirements

[BS EN 50014](#)

Electronic Equipment for use in Power Installations

[BS EN 50178](#)

Electrical Apparatus for Potentially Explosive Atmospheres - Flameproof Enclosures ‘D’

[BS EN 50018](#)

Electrical Apparatus for Potentially Explosive Atmospheres - Intrinsic Safety ‘I’

[BS EN 50020](#)

Specification for Electrical Apparatus with Type of Protection ‘N’

[BS EN 50021](#)

Safety of Household and Similar Electrical Appliances - Part 1: General Requirements

[BS EN 60335-1](#)

Specification of Protection by Enclosures (IP Code)

[BS EN 60529](#)

Information Technology Equipment - Safety - Part 1: General Requirements

[BS EN 60950-1](#)

Consumer Electronics Association (CEA)



EIA-708-B Implementation Guidance

This bulletin complements EIA-708-B, Digital Television Closed Captioning, providing additional guidance for those implementing EIA-708-B. EIA/CEA-CEB10 provides recommendations concerning DTVCC implementation that are intended to ensure consistent encoder and decoder operations, and is intended to be a technical guide for DTVCC encoding and/or decoding equipment.

[EIA CEB 10](#)

NTSC/ATSC Loudness Matching

This bulletin provides guidance on maintaining uniform audio loudness between existing NTSC audio services and DTV audio services while preserving the dynamic range delivery capability of the DTV service. This bulletin addresses optimal output specifications, gain structure and capability of consumer broadcast products to match loudness from the viewer perspective.

[EIA CEB 11](#)

Testing and Measurement Methods for Audio Amplifiers

Establishes methods to specify performance characteristics under both dynamic and static conditions for audio amplifiers.

[EIA/CEA-490](#)



Outer Shipping Container Bar Code Label Standard

The intent of this standard is to facilitate automation within shipping, distribution, transportation and receiving operations using bar code technology. This label should be affixed to outer shipping containers, boxes, cartons, pallets, cases, and barrels.

[EIA-556](#)

Recommended Practice for Line 21 Data Service

Serves as a technical guide for those providing encoding equipment and/or decoding equipment to produce material with encoded data embedded in Line 21 of the vertical blanking interval of the NTSC video signal. It is also a usage guide for those who will produce material using such equipment. Revision incorporates content advisory.

[EIA/CEA-608](#)

Digital Television (DTV) Closed Captioning

This document is intended as a definition of DTV Closed Captioning (DTVCC) and provides specifications and/or guidelines for caption service providers, DTVCC decoder and encoder manufacturers, DTV receiver manufacturers, and DTV signal processing equipment manufacturers.

[EIA-708](#)

Control Network Protocol Specification

This specification applies to a communication protocol for networked control systems. The protocol provides peer-to-peer communication for networked control and is suitable for implementing both peer-to-peer and master-slave control strategies. This specification describes services in layers 2-7. In the layer 2 specification, it also describes the data link layer and the MAC sub-layer interface to the physical layer. The physical layer provides a choice of transmission media. The interface described in this specification supports multiple transmission media at the physical layer.

[EIA/CEA-709.1](#)

Analog Video Interface Set

Includes EIA/CEA-770.1, 770.2, and 770.3

[EIA/CEA-770 SET](#)

Analog 525 Line Component Video Interface-Three Channels

This standard defines the physical characteristics of an interface and the parameters of the signals carried across the interface, using three parallel channels for the interconnection of equipment operating with analog component video signals.

[EIA/CEA-770.1](#)

Standard Definition TV Analog Component Video Interface

This standard defines the physical characteristics of an interface and the parameters of the signals carried across that interface, using three parallel channels for the interconnection of equipment operating with analog component video signals.

[EIA/CEA-770.2](#)

High Definition TV Analog Component Video Interface

Defines two raster-scanning systems for the representation of stationary or moving two-dimensional images sampled temporally at a constant frame rate. The first image format specified is 1920 x 1080 samples (pixels) inside a total raster of 1125 lines. The second image format specified is 1280 x 720 samples (pixels) inside a total raster of 750 lines. Both image formats shall have an aspect ratio of 16:9.

[EIA/CEA-770.3](#)

Mobile Electronics Wiring Designations for Audio, and Vehicle Security/Convenience

This standard defines the terms, abbreviations, and definitions used in the sales and installation of vehicle aftermarket audio and security equipment. The standard adds continuity to mobile electronics installation information, enables easier data collection, and ensures consistency of information to installers.

[EIA/CEA-803](#)

Tunneling Component Network Protocols Over Internet Protocol Channels

[EIA/CEA-852](#)

A DTV Profile for Uncompressed High Speed Digital Interfaces

This standard defines video timing requirements, discovery structures, and a data transfer structure (InfoPacket) that is used for building uncompressed, baseband, digital interfaces on digital televisions (DTV) or DTV Monitors.

[EIA/CEA-861B](#)

Antenna Control Interface

This standard describes an antenna control interface for receiving terrestrial transmissions. The primary use is to facilitate television reception. The receiver controls the antenna apparatus to optimize the signal automatically for best reception by adjusting its configuration. This standard allows any receiver to operate with any antenna, regardless of manufacturer. This standard defines the data algorithms used, connection standards, and other requirements. The antenna configuration is neither specified nor implied, leaving certain antenna design considerations to the manufacturer.

[EIA/CEA-909](#)

CSA International (CSA)



General Requirements - Canadian Electrical Code, Part II

[CSA C22.2 #0](#)

Industrial Control Equipment

[CSA C22.2 #14](#)

Enclosures for use in Class II Groups E, F and G Hazardous Locations

[CSA C22.2 #25](#)

Non-Incendive Electrical Equipment for use in Class I, Division 2 Hazardous Locations Industrial Products First Edition; General Instruction

[CSA C22.2 #213](#)

Electrical Safety

Electrical Safety a Tool for Understanding the European Union's Low Voltage Directive Based on EN 60950

Based on the Standard EN 60950, this multimedia CD-ROM software tool provides tips on designing a compliant product and meeting conformity assessment requirements.

[ELECTRICAL SAFETY](#)



Electronic Components, Assemblies, & Materials Association (ECA)



Cabinets, Racks, Panels, and Associated Equipment [EIA-310](#)

Electrical Connector Test Procedures Including Environmental Classifications

This standard establishes a recommended minimum test sequence and test procedures for electrical connectors and sockets. Includes administrative details and guidelines for connector/socket qualification and an annex for pertinent technical information.

[EIA-364](#)

Normal Force Test Procedure for Electrical Connectors

This procedure determines the magnitude of normal force being generated by a contact system at any given deflection within its normal operating levels. This data and its relationship to contact pressure allows the electrical integrity and stability of the contact interface to be evaluated in proper perspective when integrated with other monitored attributes. The procedure described herein is considered a destructive test and is not intended for acceptance testing.

[EIA-364-04](#)

Stripping Force Test (Solderless Wrapped Connectors) Test Procedure for Electrical Connectors

The object of this test is to determine the force required to move a solderless wire wrapped connection along the post parallel to the axis of the post.

[EIA-364-16](#)

TP-28D Vibration Test Procedure for Electrical Connectors and Sockets

This test procedure details a method to assess the ability of electrical connector components to withstand specified severities of vibration. The object of this test is to determine the effects of vibration within the predominant or random vibration frequency ranges and magnitudes that may be encountered during the life of the connector.

[EIA-364-28](#)

Capacitance Test Procedure for Electrical Connectors and Sockets

The object of this test is to determine the effects of vibration within the predominant or random vibration frequency ranges and magnitudes that may be encountered during the life of the connector.

[EIA-364-30](#)

Inductance Measurement Test Procedure for Electrical Connectors and Sockets (10 nH - 100 nH)

This test procedure applies to the measurement of inductance values over the range of 10 to 100 nanohenrys. The procedure defines the method used to perform the measurement of the self inductance of connector pin and socket assemblies. Tests of printed circuit board sockets will require the use of special adapters which have been evaluated prior to the measurement.

[EIA-364-69](#)

Cavity-to-Cavity Leakage Bonding Intergrity Test Procedure for Electrical Connectors

This test procedure is intended to provide a technique for evaluating the sealing integrity of the contact cavity walls of an environmentally sealed electrical connector by detecting leakage between a given contact cavity and those adjacent to it. This technique is suitable for application at the onset of a series of environmental tests (e.g., qualification or periodic inspection) to evaluate the soundness of the product before the start of test.

[EIA-364-78](#)

8mm and 12mm Punched and Embossed Carrier Taping of Surface Mount Components for Automatic Handling

This standard covers requirements for taping surface mount components. Future documentation will be issued to define requirements for higher taping accuracies for smaller device sizes. This standard was formulated to provide dimensions and tolerances necessary to tape surface mount components such that they may be automatically handled.

[EIA-481-1](#)

16mm and 24mm Embossed Carrier Taping of Surface Mount Components for Automatic Handling (ANSI/EIA-481- 2-91)

This standard was formulated to provide dimensions and tolerances necessary to tape surface mounted components such that they may be automatically handled.

[EIA-481-2](#)

Electronic Industries Alliance (EIA)

Recommended Practice for Line 21 Data Service

Serves as a technical guide for those providing encoding equipment and/or decoding equipment to produce material with encoded data embedded in Line 21 of the vertical blanking interval of the NTSC video signal. It is also a usage guide for those who will produce material using such equipment. Revision incorporates content advisory.

[EIA/CEA-608](#)

Cabinets, Racks, Panels, and Associated Equipment

[EIA-310](#)

8mm Through 200mm Embossed Carrier Taping and 8mm and 12mm Punched Carrier Taping of Surface Mount Components for Automatic Handling

[EIA-481](#)

National Consensus Standard for Configuration Management

This standard presents configuration management from the viewpoint that configuration management practices are employed because they make good business sense rather than because requirements are imposed by an external customer.

[EIA-649](#)



Electronic Industries Alliance (EIA)



Recommended Practice for Line 21 Data Service

Serves as a technical guide for those providing encoding equipment and/or decoding equipment to produce material with encoded data embedded in Line 21 of the vertical blanking interval of the NTSC video signal. It is also a usage guide for those who will produce material using such equipment. Revision incorporates content advisory.

[EIA/CEA-608](#)

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This standard presents configuration management from the viewpoint that configuration management practices are employed because they make good business sense rather than because requirements are imposed by an external customer.

[EIA-649](#)

Colors for Color Identification and Coding

This standard specifies the color ranges used to identify electronic components, equipment, and wire and cable insulation, and establishes a standard color-number relationship. Materials to be color coded are separated into two categories, and nominal colors and tolerance ranges are established for each. For instrumental testing, categories of specialized color charts are specified.

[EIA-359](#)

Preparation for the Delivery of Electrical and Electronic Components

This standard establishes and defines the general requirements for packaging and packing of electrical and electronic components for domestic shipment and storage at the user's facility for a period 90 days.

[EIA-383](#)

Date Code Marking

This standard describes a system for identification of the date of manufacturer of an electronic component or equipment through the manufacturer's marking the product with a series of numbers known as the EIA date code. EIA additionally provides a scheme for standardization of the calendar year and week in a date code. If the date code is desired by the customer it must be specified in the contractual agreements (purchase order or ordering specification).

[EIA-476](#)

8mm Through 200mm Embossed Carrier Taping and 8mm and 12mm Punched Carrier Taping of Surface Mount Components for Automatic Handling

[EIA-481](#)

Packaging Material Standards for ESD Sensitive Items

Revision and upgrading of EIA/IS-5-A and EIA/IS-5-A-1. EIA-541 establishes requirements for packaging materials used in providing protection for solid-state devices. Once packaging items for a particular packaging method or procedure are identified, this standard provides useful specifications for the procurement of these items.

[EIA-541](#)

Packaging Materials Standards for Moisture Sensitive Items

This standard establishes guidelines for packaging materials used to protect moisture sensitive, plastic, surface mountable electronic devices from harmful effects of absorbed moisture during shipping and storage. This packaging application is known in the industry as "dry packaging". Certain material properties critical to the use and performance of moisture barrier packaging applications are given; but the form or shape in which these materials are used is unrestricted by this Standard. The appropriate level of moisture protection shall be determined by the user's or manufacturer's requirements. Electrostatic Discharge (ESD) protection may also be of concern in moisture barrier packaging applications but is not within the scope of this standard. (Refer to EIA-541 for packaging material standards for ESD sensitive items.)

[EIA-583](#)

Product Life Cycle Data Model

This document defines a Product Life Cycle curve model for use by the electronics industry to standardize the terms and definitions used to describe the life cycle status of a product. When required by the customer, a component or piece of equipment needs to be identified as to where it is in the life cycle. Such information can be useful when specifying parts for use in new systems or as replacements in existing systems. This information shall be classified by phases or stages on the Product Life Cycle curve. The same classification shall be used across the electronics industry.

[EIA-724](#)

Bare Die and Chip Scale Packages Taped in 8 mm and 12 mm Carrier Tape for Automatic Handling

[EIA-763](#)

User's Application Guide to Fuses

[EIA-772](#)

2001 EIA Trade Directory & Membership List (EIA Members)

Newly revised edition is an invaluable publication listing more than 2,100 member companies representing the full spectrum of the U.S. electronics manufacturing industry. EIA members' corporate and division locations, telephone numbers, trade names and executive level personnel, as well as a number of employees, are included. It also features the Alliance's Board of Governors, Sectors, Groups, Divisions and Department Committees, Councils and Panels, officers, and staff.

[EIA TRADE DIRECTORY M](#)

2001 EIA Trade Directory & Membership List (Non-members)

[EIA TRADE DIRECTORY NM](#)



FM Approvals (FM)



Electrical Equipment for use in Hazardous (Classified) Locations General Requirements
[FMRC 3600](#)

Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, and Class I, Zone 0 and 1 Hazardous (Classified) Locations
[FMRC 3610](#)

Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2, Hazardous (Classified) Locations
[FMRC 3611](#)

Explosionproof Electrical Equipment General Requirements
[FMRC 3615](#)

Electrical and Electronic Test, Measuring and Process Control Equipment
[FMRC 3810](#)

Government Electronics and Information Technology Association (GEIA)



Processes for Engineering a System

The purpose of this standard is to provide an integrated set of fundamental processes to aid a developer in the engineering or reengineering of a system.
[EIA-632](#)

Processes for Engineering a System - Electronic Yearly Subscription Only - Five User License for Network
[EIA-632 ES](#)

National Consensus Standard for Configuration Management

This standard presents configuration management from the viewpoint that configuration management practices are employed because they make good business sense rather than because requirements are imposed by an external customer.
[EIA-649](#)

National Consensus Standard for Configuration Management - Electronic Yearly Subscription Only - Five User License for Network
[EIA-649 ES](#)

Earned Value Management Systems

The earned value management system guidelines incorporate best business practices to provide strong benefits for program or enterprise planning and control. Processes include integration of program scope, schedule, and cost objectives, establishment of a baseline plan for accomplishment of program objectives, and use of earned value techniques for performance measurement during the execution of a program.
[EIA-748](#)

Earned Value Management Systems - Electronic Yearly Subscription Only - Five User License for Network
[EIA-748 ES](#)

Industry Implementation of International Standard ISO/IEC 12207: 1995 - (ISO/IEC 12207) Standard for Information Technology - Software Life Cycle Processes
An adaptation of the international standard, ISO/IEC 12207, IEEE/EIA 12207.0 provides a framework of software life cycle processes suitable for use in the acquisition, supply, development, maintenance, and operation of software.
[IEEE/EIA 12207.0](#)

Guide for Information Technology - Software Life Cycle Processes Life Cycle Data

This guide provides information on life cycle data resulting from the processes of IEEE/EIA-12207.0. It describes the relationship among the following: the content of the life cycle data information items; references to documentation of life cycle data in IEEE/EIA-12207.0; and sources of detailed software product information.
[IEEE/EIA 12207.1](#)

Guide for Information Technology - Software Life Cycle Processes Implementations Considerations

This guide provides guidance in implementing the process requirements of IEEE/EIA-12207.0. The guidance is intended to summarize the best practices of the software industry in the context of the process structure provided by ISO/IEC 12207 and provides additions, alternatives, and clarifications to ISO/IEC 12207's life cycle processes as derived from U.S. practices.
[IEEE/EIA 12207.2](#)

Standard for Industry Implementation of International Standard ISO/IEC 1207: 1995 (ISO/IEC 12207) Standard for Information Technology
Includes IEEE/EIA 12207.0, 12207.1, and 12207.2.
[IEEE/EIA 12207 SET](#)

Standard for Industry Implementation of International Standard ISO/IEC 1207: 1995 (ISO/IEC 12207) Standard for Information Technology - Electronic Yearly Subscription Only - Five User License for Network
Includes IEEE/EIA 12207.0, 12207.1, and 12207.2.
[IEEE/EIA 12207 SET ES](#)

Insulated Cable Engineers Association, Inc. (ICEA)



Weather Resistant Polyethylene Covered Conductors
[ICEA S-70-547](#)

Neutral - Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation Rated 600 Volts
[ICEA S-76-474](#)

Standard for 600 Volt Rated Cables of Ruggedized Design for Burial Installations as Single Conductors or Assemblies of Single Conductors
[ICEA S-81-570](#)

Standard for Concentric Neutral Cables Rated 5,000 - 46,000 Volts
[ICEA S-94-649](#)



Utility Shielded Power Cables 5 - 46 kV
[ICEA S-97-682](#)

International Electrotechnical Commission (IEC)



Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment
[CISPR 22](#)

Rotating Electrical Machines - Part 1: Rating and Performance
[IEC 60034-1](#)

Audio, Video and Similar Electronic Apparatus - Safety Requirements
[IEC 60065](#)

Safety of Machinery - Electrical Equipment of Machines - Part 1: General Requirements
[IEC 60204-1](#)

Appliance Couplers for Household and Similar General Purposes - Part 1: General Requirements
[IEC 60320-1](#)

Graphical Symbols for use on Equipment - Part 1: Overview and Application
[IEC 60417-1](#)

Graphical Symbols for use on Equipment - Part 2: Symbol Originals
[IEC 60417-2](#)

Degrees of Protection Provided by Enclosures (IP Code)
[IEC 60529](#)

Information Technology Equipment - Safety - Part 1: General Requirements
[IEC 60950-1](#)

JEDEC - Solid State Technology Association



Symbol and Label for Electrostatic Sensitive Devices
[EIA-471](#)

JEDEC Registered and Standard Outlines for Solid State and Related Products

This publication is a compilation of outline drawings for transistors, diodes, DIPS, chip carriers and magazine outlines in both inch and metric versions. Includes updating service for one year. (3 Volume Loose-Leaf)
[JEDEC JEP 95](#)
[JEDEC JEP 95 RENEWAL](#)

Failure Mechanisms and Models for Silicon Semiconductor Devices

JEP122 has been developed in response to growing industry interest in the subject of failure mechanisms and their respective activation energies for use in system failure rates estimates.
[JEDEC JEP 122](#)

Temperature Cycling

This standard provides a method for determining solid state devices capability to withstand extreme temperature cycling.
[JEDEC JESD 22-A104](#)

Requirements for Handling Electrostatic-Discharge-Sensitive (ESDS) Devices

This standard establishes the minimum requirements for electrostatic discharge (ESD) control methods and materials used to protect electronic devices that are susceptible to damage or degradation from electrostatic discharge (ESD).
[JEDEC JESD 625](#)

Joint Standards

Requirement for Soldered Electrical and Electronic Assemblies

[J-STD-001](#)
[J-STD-001 CD](#)

Solderability Tests for Component Leads, Terminations, Lugs, Terminals and Wires

[J-STD-002](#)
[J-STD-002 CD](#)

Solderability Test Methods for Printed Wiring Boards

[J-STD-003](#)
[J-STD-003 CD](#)

Requirements for Soldering Fluxes

[J-STD-004](#)
[J-STD-004 CD](#)

Requirements for Soldering Pastes

[J-STD-005](#)
[J-STD-005 CD](#)

Requirements for Electronics Grade Solder Alloys and Fluxed and Non-Fluxed Solid Solders for Electronic Soldering Applications

[J-STD-006](#)
[J-STD-006 CD](#)

Implementation of Flip Chip and Chip Scale Technology

[J-STD-012](#)

Implementation of Ball Grid Array and Other High Density Technology

[J-STD-013](#)

Moisture/Reflow Sensitivity Classification for Non-Hermetic Solid State Surface Mount Devices

[J-STD-020](#)
[J-STD-020 CD](#)

Lawfully Authorized Electronic Surveillance (CALEA)

This standard defines the interfaces between a telecommunication service provider (TSP) and a law enforcement agency (LEA) to assist the LEA in conducting lawfully authorized electronic surveillance. A TSP, manufacturer, or support service provider that is in compliance with this standard will have a "safe harbor" under Section 107 of the Communications Assistance for Law Enforcement Act (CALEA), Public Law 103-414.
[J-STD-025](#)



Standard for Handling, Packing, Shipping and Use of Moisture/Reflow Sensitive Surface Mount Devices
[J-STD-033](#)

Wireless Enhanced Emergency Services: PSAP Perspective
[J-STD-034](#)

National Electrical Manufacturers Association (NEMA)

Motors and Generators

The NEMA MG 1 standard assists users in the proper selection and application of motors and generators. While providing for changes in user needs, advances in technology, and changing economic trends. The MG 1 covers mechanical vibration, methods of cooling, rotating electrical machines, motor rating, dimensions, test and performance, and DC generators.

[NEMA MG 1](#)

Military Standards and Specifications

Connectors, Electrical, Circular, Miniature, High Density, Quick Disconnect (Bayonet, Threaded, and Breech Coupling), Environment Resistant, Removable Crimp and Hermetic Solder Contacts, General Specification for
[MIL-DTL-38999](#)

Reliability Prediction of Electronic Equipment

The purpose of this handbook is to establish and maintain consistent and uniform methods for estimating the inherent reliability (i.e., the reliability of a mature design) of military electronic equipment and systems. It provides a common basis for reliability predictions during acquisition programs for military electronic systems and equipment. It also establishes a common basis for comparing and evaluating reliability predictions of related or competitive designs. The handbook is intended to be used as a tool to increase the reliability of the equipment being designed.

[MIL-HDBK-217](#)

General Guidelines for Electronic Equipment

[MIL-HDBK-454](#)

Semiconductor Devices, General Specification for

[MIL-PRF-19500](#)

Test Method Standard Electronic and Electrical Component Parts

[MIL-STD-202](#)

Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment

[MIL-STD-461](#)

Test Methods for Semiconductor Devices

[MIL-STD-750](#)

Test Methods and Procedures for Microelectronics

[MIL-STD-883](#)

National Electrical Contractors Association (NECA)



Standard for Installing Commercial Building Telecommunications Systems
[ANSI/NECA/BICSI 568](#)

Recommended Practice for Installing and Maintaining Industrial Heat Tracing Systems
[NECA 202](#)

Recommended Practice for Installing and Maintaining Motor Control Centers
[NECA 402](#)

Installing Indoor Commercial Lighting Systems
[NECA/IESNA 500](#)

Recommended Practice for Installing Exterior Lighting Systems
[NECA/IESNA 501](#)

National Electrical Manufacturers Association (NEMA)



Motors and Generators

The NEMA MG 1 standard assists users in the proper selection and application of motors and generators. While providing for changes in user needs, advances in technology, and changing economic trends. The MG 1 covers mechanical vibration, methods of cooling, rotating electrical machines, motor rating, dimensions, test and performance, and DC generators.

[NEMA MG 1](#)

Electric Meters Code for Electricity Metering

Establishes acceptable performance criteria for new types of AC watt-hour meters, demand meters, demand registers, pulse devices, and auxiliary devices. It describes acceptable in-service performance levels for meters and devices used in revenue metering.

[ANSI C12.1](#)

Electric Lamps Condensing Dichroic Coated Integral Reflector Side Pin Tungsten Halogen Projection Lamps with GX7.9 Bases

Consolidates previous standards for certain low voltage condensing dichroic-coated integral reflector side pin tungsten halogen projection lamps with GX7.9 bases designed for large screen projection systems and used in 8mm and 16mm projector applications.

[ANSI C78.1434](#)

High-Frequency Fluorescent Lamp Ballasts

Covers high frequency ballasts which have rated open circuit voltages of 2,000 volts or less and are intended to operate at a supply frequency of 59 Hz or 60 Hz.

[ANSI C82.11](#)

Z535 Standards for Safety Signs and Colors Set

Please see page 27 for a complete description.

[ANSI Z535 SERIES](#)

[ANSI Z535 SERIES CD](#)



Enclosures for Electrical Equipment (1000 Volts Maximum)

Consolidates the descriptions and applications, features and test criteria, and design tests of all NEMA type enclosures (except for rotary type apparatus) into a single document. Does not cover manufacturing standards for specific products. For manufacturing standards for a specific product, refer to the following standards: Busway-BU 1; Pin and Sleeve-FB 11; Switchboards-PB 2; Switches-KS 1; Traffic Control Systems -TS 1; Transformers-DC 20; ST 20, TR 1; Welding-EW1, EW3.

[NEMA 250](#)

Instructions For Handling, Installation, Operation, and Maintenance of Busways Rated 600 Volts or Less

Covers products for distribution of electric power at 600 volts or less, consisting of enclosed sectionalized pre-fabricated busbars rated at 100 amperes or more, and associated structures and fittings classified as: feeder busways (indoor or outdoor), plug-in busways (outdoor only), and accessories required to complete the busway system.

[NEMA BU 1.1](#)

Electrical and Electronic PTFE (Polytetrafluoro-Ethylene) Insulated High Temperature Hook-Up Wire; Types ET (250 Volts), E (600 Volts) and EE (1000 Volts)

Covers specific requirements for PTFE (polytetrafluoroethylene) insulated solid and stranded wire, designed for the internal wiring of high reliability electrical and electronic equipment.

[NEMA HP 3](#)

Industrial Controls and Systems Enclosures

Applies to general purpose adjustable speed DC drive systems which include the power conversion, control equipment, and also a motor or motors. Excluded are traction and electrical vehicle drives. Approved as an American National Standard.

[NEMA ICS 6](#)

High-Pressure Decorative Laminates

Covers high pressure decorative laminate (HPDL) sheets which consist of paper; fabrics; or other core materials that have been laminated at pressures of more than 750 pounds per square inch (5.17 MPa) using thermosetting condensation resins as binders. Includes acetate charts; not available electronically.

[NEMA LD 3](#)

Motors and Generators

The NEMA MG 1 standard assists users in the proper selection and application of motors and generators. While providing for changes in user needs, advances in technology, and changing economic trends. The MG 1 covers mechanical vibration, methods of cooling, rotating electrical machines, motor rating, dimensions, test and performance, and DC generators.

[NEMA MG 1](#)

[NEMA MG 1 CD](#)

[NEMA MG 1 SET](#)

[NEMA MG 1 CONDENSED](#)

Safety Standards and Guide for Selection, Installation, and Use of Electric Motors and Generators

Provides recommendations for the selection, installation, and use of rotating electric machines in such a manner as to provide for the practical safeguarding of persons and property.

[NEMA MG 2](#)

Magnet Wire

Definitions, type designations, dimensions, construction, performance, and methods of testing magnet wire generally used in the winding of coils for electrical equipment. Approved as an American National Standard.

[NEMA MW 1000](#)

[NEMA MW 1000 CD](#)

ANSI C12.1
ANSI C78.81
ANSI Z535 SERIES
NEMA 250
What do these standards have in common?
NEMA FIRE ALARM TRAINING MANUAL
NEMA MG 1
NEMA MW 1000
NEMA PB 1.1
NEMA WC 70
NTCIP 1400 SET

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Abstracts taken from information provided by vendor.



Performance Measurements of Scintillation Cameras

Provides a uniform criterion for the measurement and reporting of scintillation camera performance parameters for single and multiple crystal cameras and tomographic devices that image a section or reconstruction image volume, or both.

[NEMA NU 1](#)

Digital Imaging and Communications in Medicine (DICOM)

Please see page 86 for a complete description.

[NEMA PS 3 SET](#)

Guide for Determining Energy Efficiency for Distribution Transformers

[NEMA TP 1](#)

Traffic Controller Assemblies with NTCIP Requirements

Please see page 137 for a complete description.

[NEMA TS 2](#)

Non-Shielded Power Cable 2000 V. or Less

Applies to materials, constructions, and testing of 2000 volt and below nonshielded thermoplastic, crosslinked polyethylene, and crosslinked rubber insulated wires and cables which are used for the transmission and distribution of electrical energy for normal conditions of installation and service, either indoors, outdoors, aerial, underground, or submarine.

[NEMA WC 70](#)

Standard for Aerospace and Industrial Electrical Cable

Developed by the High Performance Wire and Cable Section of NEMA as a non-governmental standard replacement for the MIL-DTL-27500 specification for electrical cable, which is widely used in aerospace and other industries. It provides requirements for finished cables. The component wires are covered by other referenced standards. These cables are intended for signal and low-voltage power applications with defined environment or temperature conditions found in commercial aircraft, military aircraft, and high performance vehicles

[NEMA WC 27500](#)

Wiring Devices - Dimensional Requirements

Covers dimensional requirements for plugs and receptacles rated up to 60 Ampere and 600 Volts, including dimensions for wall plates.

[NEMA WD 6](#)

Wiring Devices - Dimensional Requirements

[NEMA WD 6 CDR0M](#)

Wiring Devices - Dimensional Requirements

Includes Both Hardcopy and CD-ROM.

[NEMA WD 6 Set](#)

NEMA Electroindustry Newsletter

NEMA's monthly magazine, Electroindustry, reports breaking news and trends in the marketplace, standards development, economics, technology, and government affairs. Representing a \$76 billion domestic shipping market, Electroindustry is sent to 6,000 high-level Electroindustry professionals and read by thousands of others seeking information on legislative issues, standardization trends, marketing opportunities, manufacturing innovations, human resources, and activities of the association and its member companies. Their buying power represents a huge potential for increased sales of both products and services.

[NEMA NEWSLETTER](#)

National Fire Protection Association (NFPA)



National Electrical Code (NEC)

Published by The National Fire Protection Association (NFPA), the NEC provides the most current and most complete safety criteria for all electrical installations.

[NFPA 70](#)

[NFPA 70 \(LL\)](#)

[NFPA 70 CD](#)

National Electrical Code (NEC) - Codigo Electrico Nacional

[NFPA 70 Spanish](#)

National Electrical Code (NEC) Handbook

The NEC Handbook is the official "user guide" to the National Electrical Code. It includes extra facts and figures necessary in helping you interpret the new NEC. Provides expert commentary, examples, diagrams, and illustrations.

[NFPA 70 HDBK](#)

[NFPA 70 HDBK CD](#)

[NFPA 70 HB CD Network](#)

[NFPA 70 HDBK CD Set](#)

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National Electrical Code (NEC) Handbook & NFPA 70

[NFPA 70 Set](#)

[NFPA 70 Set \(LL\)](#)

[NFPA 70 SET CD](#)

Pocket Guide to the National Electrical Code (NEC), 1999

This handy 3x5 inch guide contains portions of the 1999 NEC that are referenced by many code users on a daily basis. It is ideal for routine jobs and helps keep your work in compliance. Topics include Wiring Design and Protection, and Equipment for General Use. Tables, appendices with extracts, data on calculating ampacities, and many examples are included.

[NFPA RES 9](#)

Electrical Standard for Industrial Machinery

[NFPA 79](#)

Radio Technical Commission for Aeronautics, Inc. (RTCA)

Environmental Conditions and Test Procedures for Airborne Equipment

[RTCA DO160](#)

Software Considerations in Airborne Systems and Equipment Certification

[RTCA DO178](#)

Design Assurance Guidance for Airborne Electronic Hardware

[RTCA DO254](#)



Solid State Technology Association

Requirements for Handling Electrostatic-Discharge-Sensitive (ESDS) Devices

This standard establishes the minimum requirements for electrostatic discharge (ESD) control methods and materials used to protect electronic devices that are susceptible to damage or degradation from electrostatic discharge (ESD).

[JEDEC JESD 625](#)

Robotics Industries Association (RIA)

Industrial Robots and Robot Systems - Safety Requirements

[RIA R15.06](#)

Solid State Technology Association

Requirements for Handling Electrostatic-Discharge-Sensitive (ESDS) Devices

This standard establishes the minimum requirements for electrostatic discharge (ESD) control methods and materials used to protect electronic devices that are susceptible to damage or degradation from electrostatic discharge (ESD).

[JEDEC JESD 625](#)

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[TELECOM/ELECTRO INDUSTRY TRENDS](#)

The Institute of Electrical & Electronics Engineers, Inc. (IEEE)



Recommended Practice - General Principles for Temperature Limits in the Rating of Electrical Equipment and for the Evaluation of Electrical Insulation

[IEEE 1](#)

The Authoritative Dictionary of IEEE Standards Terms

[IEEE 100](#)

Graphic Symbols for Electrical and Electronics Diagrams (Including Reference Designation Class Designation Letters)

[IEEE 315](#)

Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems

[IEEE 519](#)

IEEE 802 Series LAN/MAN Standards

Available with or without drafts. Please see IEEE in the Telecommunications section for more information about the IEEE 802 Series.

[IEEE 802 SERIES](#)

IEEE Standards On-line (ISOL) Complete Set

The IEEE Standards Online Complete Set includes all Information Technology (IT) and Power and Energy (PE) standards sections plus additional standards. ISOL standards are also available in individual sections and packages.

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[IHS SN140](#)

National Electrical Safety Code (NESC)

Covers basic provisions for safeguarding of persons from hazards arising from the installation, operation or maintenance of conductors and equipment in electrical supply stations, as well as overhead and underground electric supply and communication lines and equipment.

[IEEE C2](#)

[NESC CD](#)

A Discussion of the National Electrical Safety Code (NESC)

The NESC Handbook pulls together facts, figures, and explanations that help you effectively implement the code.

[NESC HANDBOOK](#)

Underwriters Laboratories Inc., (UL)



Enclosures for Electrical Equipment

[UL 50](#)

Industrial Control Equipment

[UL 508](#)

Printed - Wiring Boards

[UL 796](#)

Electrical Cables for Boats

[UL 1426](#)

Reference Standard for Electrical Wires, Cables, and Flexible Cords

[UL 1581](#)

Overheating Protection for Motors

[UL 2111](#)

Electrical Equipment for Laboratory Use; Part 1; General Requirements

[UL 61010A-1](#)

Safety of Information Technology Equipment

[UL 60950](#)



British Standards Institution (BSI)



Electromagnetic Compatibility - Generic Emission Standard Part 1: Residential, Commercial and Light Industry

[BS EN 50081-1](#)

Electromagnetic Compatibility - Generic Emission Standard - Part 2: Industrial Environment

[BS EN 50081-2](#)

Specification for Limits and Methods of Measurement of Radio Disturbance Characteristics of Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment

[BS EN 55011](#)

Sound and Television Broadcast Receivers and Associated Radio Disturbance Characteristics - Limits and Methods of Measurement

[BS EN 55013](#)

Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement

[BS EN 55022](#)

Electromagnetic Compatibility (EMC) - Part 3: Limits - Section 2: Limits for Harmonic Current Emissions (Equipment Input Current Less Than/Equal to 16 a Per Phase)

[BS EN 61000-3-2](#)

Electromagnetic Compatibility (EMC) - Part 4-2: Testing and Measurement Techniques - Electrostatic Discharge Immunity Test

[BS EN 61000-4-2](#)

Electromagnetic Compatibility (EMC) - Part 4-5: Testing and Measurement Techniques - Surge Immunity Test

[BS EN 61000-4-5](#)

Electromagnetic Compatibility (EMC) - Part 6-2: Generic Standards Immunity for Industrial Environments

[BS EN 61000-6-2](#)

Electrical Equipment for Measurement, Control, and Laboratory Use - EMC Requirements

[BS EN 61326](#)

EMF-EFI Control Inc.

EMC 1999 Encyclopedia: Telecom and Computer Encyclopedia Handbook

The EMC Encyclopedia is a valuable reference for technical professionals worldwide. This comprehensive tool provides easy access to: numerous terms, designations, formulas, design diagnoses and case histories, illustrations of the terms in the form of drawings, sketches, charts, graphs and photographs, definitions and interpretations for units, terms, math models, tutorials, problem solutions, standards, and regulations. The 624-page 1999 edition is hardbound in a 7in.x10in. (18cmx25cm) dictionary-size format. Each annual edition is completely updated and expanded. A companion CD-ROM product has been developed to enhance the 1999 EMC Encyclopedia. It provides instant search and retrieval capabilities, eliminating the frustration which often accompanies the use of a standard dictionary. With enhanced cross-referencing, this version provides instant access to all EMC words and terminology.

[EMC ENCYCLOPEDIA](#)

GM Worldwide (GMW)

General Specification for Electrical/Electronic Components and Subsystems - Electromagnetic Compatibility - Requirement Part

[GMW3097](#)

European Council/Commission Legislative Documents

Council Directive on the Approximation of the Laws of the Member States Relating to Electromagnetic Compatibility

[EEC/89/336](#)

Telecommunications Terminal Equipment, Including the Mutual Recognition of their Conformity

[EEC/91/263](#)

Electromagnetic Compatibility

See Also [EEC/91/263](#) & [EEC/92/31](#)

[EEC/92/31](#)

General Motors Worldwide (GMW)



General Specification for Vehicles - Electromagnetic Compatibility (EMC) - Requirement Part

[GMW3091](#)

General Specification for Electrical/Electronic Components and Subsystems - Electromagnetic Compatibility - Requirement Part

[GMW3097](#)

General Specification for Electrical/Electronic Components and Subsystems - Electromagnetic Compatibility - Verification Part

[GMW3100](#)

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General Specification for Electrical/Electronic Components and Subsystems - Electromagnetic Compatibility - Global EMC Component/Subsystem Validation Acceptance Process - Requirement Part

GMW3103

GM Electromagnetic Compatibility Set

Includes; GM9100P, GM9105P, GM9107P, GM9108P, GM9109P, GM9112P, GM9113P, GM9114P, GM9115P, GM9116P, GM9117P, GM9119P, and GM9120P.

GM EMC

International Electrotechnical Commission (IEC)

Electromagnetic Compatibility (EMC) Part 3-2: Limits - Limits for Harmonic Current Emissions (Equipment Input Current Less than or Equal to 16 a per Phase

IEC 61000-3-2

Section 1: Testing and Measurement Techniques - Overview of IEC 61000-4 Series

IEC 61000-4-1

Section 4: Electrical Fast Transient/Burst Immunity Test. Basic EMC Publication

IEC 61000-4-4

International Electrotechnical Commission (IEC)

Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment Electromagnetic Disturbance Characteristics - Limits and Methods of Measurement

CISPR 11

Specification for Radio Disturbance and Immunity Measuring Apparatus and Methods - Part 1: Radio Disturbance and Immunity Measuring Apparatus

CISPR 16-1

Specification for Radio Disturbance and Immunity Measuring Apparatus and Methods - Part 2: Methods of Measurement of Disturbances and Immunity

CISPR 16-2

Specification for Radio Disturbance and Immunity Measuring Apparatus and Methods - Part 4: Uncertainty in EMC Measurements

CISPR 16-4

Electromagnetic Compatibility (EMC) - Part 1: General; Section 1: Application and Interpretation of Fundamental Definitions and Terms

IEC 61000-1-1

Electromagnetic Compatibility (EMC) Part 3-2: Limits - Limits for Harmonic Current Emissions (Equipment Input Current Less than or Equal to 16 a per Phase

IEC 61000-3-2

IEC Electromagnetic Compatibility (EMC)

IEC Electromagnetic Compatibility (EMC) Set

Set Includes IEC 61000-4-1 through 61000-4-10.

IEC EMC SET

Section 1: Testing and Measurement Techniques - Overview of IEC 61000-4 Series

IEC 61000-4-1

Section 2: Testing and Measurement Techniques - Electrostatic Discharge Immunity Test

IEC 61000-4-2

Section 3: Testing and Measurement Techniques - Radiated, Radio-Frequency. Electromagnetic Field Immunity Test

IEC 61000-4-3

Section 4: Electrical Fast Transient/Burst Immunity Test. Basic EMC Publication

IEC 61000-4-4

Section 5: Surge Immunity Test

IEC 61000-4-5

Military Standards

Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment

MIL-STD-461

Electromagnetic Environmental Effects Requirements for Systems

MIL-STD-464

SAE International (SAE)



Electromagnetic Compatibility Measurement Procedures for Vehicle Components - Part 13 - Immunity to Electrostatic Discharge

SAE J1113-13

Electromagnetic Compatibility Measurement Procedures for Integrated Circuits - Integrated Circuit EMC Measurement

SAE J1752-1

Function Performance Status Classification for EMC Susceptibility Testing of Automotive Electronic and Electrical Devices

SAE J1812

SIMCOM

The European Union Electromagnetic Compatibility Directive: 89/336/EEC - A Technical Professional's Guidance Manual for Legal European Trade

Please see page 25 for a complete description.

SIMCOM ELECTROMAGNETIC

Electromagnetic Compatibility/Frequency



The Institute of Electrical &
Electronics Engineers, Inc. (IEEE)



**Methods of Measurement of Radio-Noise Emissions from
Low-Voltage Electrical and Electronic Equipment in the
Range of 9 KHz to 40 GHz**

[ANSI C63.4](#)

**Electromagnetic Compatibility Radiated Emission
Measurements in Electromagnetic Interference (EMI)
Control Calibration of Antennas**

[IEEE C63.5](#)

**American National Standard for Methods of Measurement of
Compatibility Between Wireless Communication Devices and
Hearing Aids**

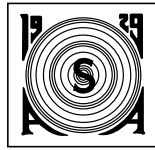
[IEEE C63.19](#)

**Recommended Practice for the Measurement of Potentially
Hazardous Electromagnetic Fields - RF and Microwave**

[IEEE C95.3](#)



Acoustical Society of America (ASA)



Sound Level Meters

This standard includes an optional impulse exponential-time-averaging characteristic, inclusion of an optional peak characteristics, more rigorous definition of the dynamic characteristics for the Fast and Slow exponential-time-averaging, increase in the crest factor requirement to ten for type 1 instruments, specification of a type 0 laboratory instrument with generally smaller tolerance limits than those previously specified for type 1, and deletion of the type 3 survey instrument.

[ANSI S1.4](#)

Octave Band and Fractional-Octave Band Analog and Digital Filters

This standard provides performance requirements for fractional-octave-band bandpass filters, including, in particular, octave-band and one-third-octave-band filters. Basic requirements are given by equations with selected empirical constants to establish limits on the required performance. The requirements are applicable to passive or active analog filters that operate on continuous-time signals, to analog and digital filters that operate on discrete-time signals and to fractional-octave-band analyses synthesized from narrow-band spectral components.

[ANSI S1.11](#)

Methods for the Measurement of Sound Pressure Levels in Air

This standard specifies requirements and describes procedures for the measurement of sound levels in air at a single point in space. These requirements and procedures apply primarily to measurements performed indoors but may be utilized in outdoor measurements under specified conditions.

[ANSI S1.13](#)

Balance Quality Requirements of Rigid Rotors - Part 1: Determination of Permissible Residual Unbalance

[ANSI S2.19](#)

Graphical Presentation of the Complex Modulus of Viscoelastic Materials

[ANSI S2.24](#)

Methods for the Measurement & Designation of Noise Emitted by Computer and Business Equipment

[ANSI S12.10](#)

American National Standard Precision Methods for the Determination of Sound Power Levels of Broad-Band Noise Sources in Reverberation Rooms

[ANSI S12.31](#)

American National Standard Precision Methods for the Determination of Sound Power Levels of Discrete-Frequency and Narrow-Band Noise Sources in Reverberation Rooms

[ANSI S12.32](#)

American National Standard Survey Methods for the Determination of Sound Power Levels of Noise Source

[ANSI S12.35](#)

American Conference of Governmental Industrial Hygienists (ACGIH)

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2000 TLVs and BEIs: Threshold Limit Values for Chemical Substances and Physical Agents

Please see page 110 for a complete description.

[ACGIH BIOLOGICAL EXPOSURE](#)

Occupational Biomechanics

[ACGIH BIOMECHANICS](#)

Personal Protective Equipment Pocket Guide

[ACGIH EQUIPMENT GUIDE](#)

Occupational Health & Safety

Major topic areas include: The Occupational Safety and Health Team; Managing the Health Safety Process; Managing Human Resources; Legal/Ethical Considerations; and Outlook for Occupational Health and Safety.

[ACGIH HEALTH](#)

Material Safety Data Sheets (MSDS), CD-ROM

[ACGIH MSDS CD-ROM](#)

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[IHS ES594](#)



American Petroleum Institute (API)



API Health, Environment and Sciences Department (HESD) Publications

API conducts health and environmental research programs on a variety of topics of interest to the petroleum industry. These programs result in software or reports providing information to assist companies in addressing issues such as: a) Health effects of petroleum products; b) Effects of fuel changes on vehicle emissions; c) Remediation of contaminated sites; d) Storage tank and pipeline leak detection; and e) Techniques to estimate facility air emissions. In addition, these programs foster the exchange of scientific and technical information among industry engineers and scientists as well as other professionals, governmental and industrial organizations. Both current and historical HESD publications from API are available from Global.

Call for quote

[API DR REPORTS](#)

API Environmental and Safety CD-ROM

Call for quote

The API Environmental and Safety product, includes manuals, training materials, standards, specifications, recommended practices, bulletins, and other publications. These documents address equipment and materials, offshore production, drilling, transportation, structural pipe, nomenclature, valves, environmental effects, fuel volatility, oil spills, photochemical smog, air quality, motor gasoline, study of motor fuel, gaseous motor fuels, exhaust gas, the Clean Air Act, emission control, beach protection study, and environmental research reports. Updated every 60 days.

[IHS ES594](#)

Environmental Guidance Document: Waste Management in Exploration and Production Operations

Includes recommendations for the environmentally sound management of solid waste resulting from the exploration and production of oil and gas. Guidance is provided for the management of drilling fluids, produced waters, and other wastes associated with the operation of gas plants, field facilities, drilling, and workover.

[API E5](#)

Model Environmental, Health and Safety (EHS) Management System and Guidance Document

This document is intended to be used as a voluntary tool to assist companies interested in developing an EHS management system or enhancing an existing system. The model, which applies a quality systems approach to managing EHS activities, focuses on people and procedures by pulling together company EHS policies, legal requirements, and business strategies into a set of company or facility expectations or requirements.

[API PUBL 9100](#)

Development of a Safety and Environmental Management Program for Outer Continental Shelf (OCS) Operations and Facilities

Provides guidance for use in preparing safety and environmental management programs (SEMP) for oil, gas, and sulphur operations and facilities located on the outer continental shelf (OCS). These guidelines are applicable to well drilling, servicing, and production; and pipeline facilities and operations that have the potential for creating a safety or environmental hazard at OCS platform sites. Eleven major program elements are included for application to these facilities and operations. Identification and management of safety and environmental hazards are addressed in design, construction, startup, operation, inspection, and maintenance of new, existing, and modified facilities.

[API RP 75](#)

Guidelines and Procedures for Entering and Cleaning Petroleum Storage Tanks

This recommended practice supplements the requirements of ANSI/API Standard 2015, Requirements for Safe Entry and Cleaning of Petroleum Storage Tanks, Sixth Edition. This RP provides guidance and information on the specific aspects of tank cleaning, in order to assist employers (owners/operators and contractors) to conduct safe tank cleaning operations in accordance with the requirements of ANSI/API Standard 2015.

[API RP 2016](#)

Safe Entry and Cleaning of Petroleum Storage Tanks

This standard provides safety practices for preparing, emptying, isolating, ventilating, atmospheric testing, cleaning, entry, hot work, and recommissioning activities in, on, and around atmospheric and low-pressure (up to and including 15 psig) aboveground storage tanks that have contained flammable, combustible, or toxic materials. This standard directs the user from decommissioning (removal from service) through recommissioning (return to service). This standard applies to stationary tanks used in all sectors of the petroleum and petrochemical plants, and terminals.

[API STD 2015](#)

American Society for Quality (ASQ)

Guide for Quality Control Charts - Control Chart Method of Analyzing Data - Control Chart Method of Controlling Quality During Production

ANSI/ASQC B1-1996: This is a guide for handling problems concerning the economic control of quality of materials and manufactured products, with particular reference to methods of collecting, arranging, and analyzing inspection. ANSI/ASQC B2-1996: This guide gives particular reference to quality data resulting from inspections and tests of materials and manufactured products. ANSI/ASQC B3-1996: This outlines the control chart method of identifying and eliminating causes of trouble in repetitive production processes in order to reduce variation in the quality of manufactured products and materials.

[ASQ B1-B3](#)



American Society for Quality (ASQ)



Guide for Quality Control Charts - Control Chart Method of Analyzing Data - Control Chart Method of Controlling Quality During Production

ANSI/ASQC B1-1996: This is a guide for handling problems concerning the economic control of quality of materials and manufactured products, with particular reference to methods of collecting, arranging, and analyzing inspection. ANSI/ASQC B2-1996: This guide gives particular reference to quality data resulting from inspections and tests of materials and manufactured products. ANSI/ASQC B3-1996: This outlines the control chart method of identifying and eliminating causes of trouble in repetitive production processes in order to reduce variation in the quality of manufactured products and materials.

[ASQ B1-B3](#)

Identifying Environmental Aspects and Impacts

[ASQ H1009](#)

ISO 14001 Certification: Environmental Management Systems

[ASQ P601](#)

Environmental Management Systems - Specifications with Guidance for Use

[ASQ T65](#)

American Society of Safety Engineers (ASSE)



Criteria for Accepted Practices in Safety, Health, and Environmental Training

[ANSI Z490.1](#)

ASTM International (ASTM)



Please see the Annual Book of ASTM Standards section for individual Water Environmental Technology volume listings.

Annual Book of ASTM Standards

Water and Environmental Technology

[ASTM SECTION 11](#)

Code of Federal Regulations (CFR)

The complete multi-volume collection of the CFR and Index are available from Global.

Protection of Environment

Please see page 142 for a complete description.

[40 CFR 1-49](#)

European Telecommunications Standards Institute (ETSI)



European Telecommunications Standards Institute

Equipment Engineering (EE); Environmental Conditions and Environmental Test for Telecommunications Equipment

Part 1-0: Classification of Environmental Conditions Introduction

[ETS 300 019-1-0](#)

Part 1-1: Classification of Environmental Conditions Storage

[ETS 300 019-1-1](#)

Part 1-2: Classification of Environmental Conditions Transportation

[ETS 300 019-1-2](#)

Part 1-3: Classification of Environmental Conditions Stationary use at Weather Protected Locations

[ETS 300 019-1-3](#)

Part 2-3: Specification of Environmental Tests T 3.1 to T 3.5 Stationary use at Weather Protected Locations

[ETS 300 019-2-3](#)

Part 2-4: Specification of Environmental Tests T 4.1 and T 4.1E Stationary use at Non-Weather Protected Locations

[ETS 300 019-2-4](#)

International Electrotechnical Commission (IEC)



Environmental Testing Part 1: General and Guidance

[IEC 60068-1](#)

Environmental Testing Part 2: Tests - Tests A: Cold

[IEC 60068-2-1](#)

Basic Environmental Testing Procedures - Part 2: Tests - Tests B: Dry Heat

[IEC 60068-2-2](#)

Environmental Testing - Part 2: Tests - Test FC: Vibration [Sinusoidal]

[IEC 60068-2-6](#)

Basic Environmental Testing Procedures Part 2: Tests Test N: Change of Temperature

[IEC 60068-2-14](#)



International Organization for Standardization (ISO)

ISO 14000 Series on Environmental Management

The ISO 14000 series is designed to guide businesses through the various steps of adopting a responsible environmental management system. Although ISO 14000 is voluntary, more and more companies are expected to be contractually or legally obligated to obtain certification.

[ISO 14000 SERIES](#)

Cleanrooms and Associated Controlled Environments Set

Includes : ISO 14644-1, ISO 14644-2, ISO 14644-4, ISO DIS 14644-5, ISO DIS 14644-6, and ISO DIS 14644-7.

[ISO 14644 SET](#)

International Organization for Standardization (ISO)



ISO 14000 Series on Environmental Management

ISO Standards - ISO 14000 - Environmental Management

The ISO 14000 Compendium, is a series of international, voluntary environmental management standards. Developed under ISO Technical Committee 207, the 1400 series of standards address the following aspects of environmental management: (1) Environmental Management Systems (EMS), (2) Environmental Labels and Declarations (EL), (3) Life Cycle Assessment (LCA), (4) Environmental Auditing & Related Investigations (EA&RI), (5) Environmental Performance Evaluation (EPE), and (6) The Terms and Definitions (T&D). The benefits of the ISO 14000 Compendium are as follows: (1) Assuring customers of commitment to demonstrable environmental management, (2) Obtaining insurance at reasonable cost, (3) Meeting vendor certification criteria, (4) Reducing incidents that result in liability, (5) Demonstrating reasonable care, (6) Conserving input materials and energy, (7) Facilitating the attainment of permits and authorizations, (8) Fostering development and sharing environmental solutions, and (9) Improving industry-government relations.

[ISO 14000 COMPENDIUM](#)

Includes ISO Guide 64, ISO 14001, 14004, 14010, 14011, 14012, DIS 14015, 14020, 14021, 14024, TR 14025, 14031, TR 14032, 14040, 14041, 14042, 14043, TR 14049, 14050, and TR 14061.

ISO 14000 Series on Environmental Management

The ISO 14000 series is designed to guide businesses through the various steps of adopting a responsible environmental management system. Although ISO 14000 is voluntary, more and more companies are expected to be contractually or legally obligated to obtain certification.

[ISO 14000 SERIES](#)

Environmental Management Systems - Specification with Guidance for Use

Gives requirements for an environmental management system, to enable an organization to develop a policy and objectives taking into account legislative requirements and information about significant environmental impacts.

[ISO 14001](#)

Guide to Environmental Management Systems - General Guidelines on Principles, Systems, and Supporting Techniques

Contains guidelines on the development and implementation of environmental management systems and principles, and their coordination with other management systems. The guidelines are intended for use as a voluntary, internal management tool and not to be used as EMS certification criteria.

[ISO 14004](#)

Guidelines for Environmental Auditing - General Principles (This standard now withdrawn and superseded by ISO 19011)

[ISO 14010](#)

Guidelines for Environmental Auditing - Audit Procedures - Part 1: Auditing of Environmental Management Systems (This standard now withdrawn and superseded by ISO 19011)

[ISO 14011](#)

Guidelines for Environmental Auditing - Qualification Criteria for Environmental Auditors (This standard now withdrawn and superseded by ISO 19011)

[ISO 14012](#)

Guidelines for Quality and/or Environmental Management Systems Auditing

Provides you with guidelines for verifying the system's ability to achieve defined quality objectives. You can use this standard internally or for auditing your suppliers. This standard now replaces ISO 14010, ISO 14011, and ISO 14012.

[ISO 19011](#)

Environmental Labels and Declarations - General Principles

This international standard establishes guiding principles for the development and use of environmental labels and declarations.

[ISO 14020](#)

Environmental Labels and Declarations - Self Declared - Environmental Claims (Type II Environmental Labeling)

[ISO 14021](#)

Environmental Labels and Declarations - Type 1 Environmental Labeling - Principles and Procedures

[ISO 14024](#)

Environmental Management - Environmental Performance Evaluation - Guidelines

[ISO 14031](#)

Environmental Management - Life Cycle Assessment - Principles and Framework

[ISO 14040](#)

Environmental Management - Life Cycle Assessment - Goal and Scope Definition and Inventory Analysis

[ISO 14041](#)



Environmental Management - Life Cycle Assessment - Life Cycle Impact Assessment

[ISO 14042](#)
[ISO 14043](#)

Environmental Management - Vocabulary

(Bilingual)
[ISO 14050](#)

Guide for the Inclusion of Environmental Aspects in Product Standards

[ISO Guide 64](#)

ISO 14000 Handbook

This publication is a practical, comprehensive guide to ISO 14000 standards implementation and environmental management system certification. It includes an ISO 14000 series overview, discusses preparing, planning and implementing ISO 14001, and gives different implementation approaches. It also includes the actual text of ISO/DIS 14001 and 14004.

[ISO 14000 HDBK \(ASQ\)](#)



International Environmental Risk Management: ISO 14000 and the Systems Approach

This book gives an extensive analysis of practical applications of ISO 14000 and environmental compliance management systems to help define and implement an environmental risk reduction strategy to your best advantage. It offers a mixture of technical engineering advice, legal guidance, and common sense business acumen. The essentials of the standards are explained, as well as how they are being developed and what implications they present. Cost-benefit analyses, integration strategies, business risk control measures, and step-by-step guidance on achieving third-party certification are also included.

[RISK MANAGEMENT](#)



Cleanrooms and Associated Controlled Environments

Cleanrooms and Associated Controlled Environments Set

Includes : ISO 14644-1, ISO 14644-2, ISO 14644-4, ISO DIS 14644-5, ISO DIS 14644-6, and ISO DIS 14644-7.

[ISO 14644 SET](#)

Part 1: Classification of Air Cleanliness

[ISO 14644-1](#)

Part 2: Specifications for Testing and Monitoring to Prove Continued Compliance with ISO 14644-1

[ISO 14644-2](#)

Part 4: Design, Construction and Start-Up

[ISO 14644-4](#)

Part 5: Operations

[ISO DIS 14644-5](#)

Part 7: Separative Enclosures (Clean Air Hoods, Gloveboxes, Isolators, Mini-Environments)

[ISO DIS 14644-7](#)

Japanese Standards Association (JSA)

Environmental Technology Handbook

[JIS ENVIRONMENTAL HDBK](#)

Basic Environmental Testing Procedures - Part 2: Tests - Test Ka: Salt Mist

[JIS C 0023](#)

National Electrical Manufacturers Association (NEMA)



Z535 Standards for Safety Signs and Colors Set

Includes ANSI Z535.1 through ANSI Z535.5.

[ANSI Z535 SERIES](#)

[ANSI Z535 SERIES CD](#)

Safety Color Code

Please see page 27 for a complete description.

[ANSI Z535.1](#)

Environmental and Facility Safety Signs

Please see page 27 for a complete description.

[ANSI Z535.2](#)

Criteria for Safety Symbols

Please see page 27 for a complete description.

[ANSI Z535.3](#)

Product Safety Sign and Label

Please see page 27 for a complete description.

[ANSI Z535.4](#)

Accident Prevention Tags

Please see page 27 for a complete description.

[ANSI Z535.5](#)

Safety Color Chart

Please see page 27 for a complete description.

[ANSI Z535 COLOR CHART](#)



The Institute of Electrical &
Electronics Engineers, Inc. (IEEE)



**Guide for the Design, Construction, and Operation of Safe
and Reliable Substations for Environmental Acceptance**
[IEEE 1127](#)

**Microprocessor Environmental Specifications for
Computer Modules**
[IEEE 1156.1](#)

**Standard for Environmental Specifications for
Computer Systems**
[IEEE 1156.2](#)

**Environmental Specifications for Spaceborne
Computer Modules**
[IEEE 1156.4](#)

Common Mezzanine Card (CMC) Family
Now contains IEEE 1386.1.
[IEEE 1386](#)



American Petroleum Institute (API)

Recommended Practice for Fire Prevention and Control on Open Type Offshore Production Platforms

API RP 14G presents a standardized method to design, install, and test surface safety systems on offshore production platforms and presents recommendations for minimizing the likelihood of an accidental fire, and for designing, inspecting, and maintaining fire control systems.

[API RP 14G](#)

American Petroleum Institute (API)



Recommended Practice for Fire Prevention and Control on Open Type Offshore Production Platforms

API RP 14G presents a standardized method to design, install, and test surface safety systems on offshore production platforms and presents recommendations for minimizing the likelihood of an accidental fire, and for designing, inspecting, and maintaining fire control systems.

[API RP 14G](#)

Fire Protection in Refineries

The purpose of this publication is to provide a better understanding of the fire protection problems and the steps needed to promote the safe storage, handling, and processing of petroleum and petroleum products in refineries and the safe shipment of these products.

[API RP 2001](#)

Interim Study - Prevention and Suppression of Fires in Large Aboveground Atmospheric Storage Tanks

The purpose of this publication is to provide an understanding of the fire prevention and suppression issues relating to the storage of flammable and combustible liquids in large aboveground atmospheric storage tanks.

[API PUBL 2021A](#)

Application of Fixed Water Spray Systems for Fire Protection in the Petroleum Industry

This publication provides guidance on the design of water spray systems for fire protection in the petroleum industry, including recommended uses and suggested application rates.

[API PUBL 2030](#)

Fire-Protection Considerations for the Design and Operation of Liquefied Petroleum Gas (LPG) Storage Facilities

This publication supplements API Standard 2510 and addresses the design, operation, and maintenance of liquefied petroleum gas (LPG) storage facilities from the standpoint of prevention and control of releases, fire protection design, and fire control measures.

[API PUBL 2510A](#)

British Standards Institution (BSI)



Fire Tests on Building Materials and Structures - Part 7: Method of Test to Determine the Classification of the Surface Spread of Flame of Products

[BS 476 P7](#)

Fire Tests on Building Materials and Structures Part 21: Methods for Determination of the Fire Resistance of Loadbearing Elements of Construction

[BS 476 P21](#)

Fire Tests on Building Materials and Structures Part 22: Methods for Determination of the Fire Resistance of Non-Loadbearing Elements of Construction

[BS 476 P22](#)

Fire Detection and Fire Alarm Systems

Parts 1, 2, 3, 4, 5, 7, 10, and 11

[BS EN 54 \(Part 1 through Part 11\)](#)

Connectors, Electrical, Circular, Coupled by Threaded Ring, Fire-Resistant or Non Fire-Resistant, Operating Temperatures 175 Degrees C Continuous, 200 Degrees C Continuous, 260 Degrees C Peak Part 1: Technical Specification

[BS EN 2997-1](#)

Fixed Firefighting Systems - Components for Sprinkler and Water Spray Systems - Part 1: Sprinklers

[BS EN 12259-1](#)

Alarm Systems - Part 4. Electromagnetic Compatibility - Product Family Standard: Immunity Requirements for Components of Fire, Intruder, and Social Alarm Systems

[BS EN 50130-4](#)

Building Officials & Code Administrators (BOCA)

BOCA National Fire Prevention Code

[BOCA NATIONAL FIRE CODE](#)

FM Approvals (FM)



FM Approvals standards are used to test products for the prevention or minimization of industrial property loss. They take into account global technology and the constantly changing needs of industry. Customers use the FM Approvals diamond as a marketing tool and a mark of excellence for their products. This indicates quality to potential buyers.

Fire Service Water Control Valves (OS&Y and NRS Type Gate Valves)

[FMRC 1120/1130](#)

Quick Opening Valves 1/4 Inch Through 2 Inch Nominal Size

[FMRC 1140](#)

Trim Water Pressure Relief Valves 1/4 Inch Through 2-1/2 Inch Nominal Size

Criteria for trim water pressure relief valves for use in valve trim, and in grided fire protection wet sprinkler systems.

[FMRC 1359](#)

Water Pressure Relief Valves

[FMRC 1361](#)

Fire Protection



Fire Hydrant (Dry Barrel Type) for Private Fire Services

Traffic and Non-Traffic Styles
[FMRC 1510](#)

Polyvinyl Chloride (PVC Pipe) and Fittings for Underground Fire Protection Service

[FMRC 1612](#)

Plastic Pipe and Fittings for Automatic Sprinkler Systems

[FMRC 1635](#)

Automatic Sprinklers for Fire Protection

[FMRC 2000](#)

Fire Hose

Requirements for 1-1/2, 1-3/4, 2 and 2-1/2 in. (38, 44, 51, and 65 mm) Single-Jacket Occupant-Use Hose and Single-Jacket, Double-Jacket and Covered Lined Fire Hose; and 3 in. (76 mm) Single-Jacket, Double, and Covered Lined Fire Hose.
[FMRC 2111](#)

Central Station Service for Fire Alarms and Protective Equipment Supervision

[FMRC 3011](#)

Radiant Energy-Sensing Fire Detectors for Automatic Fire Alarm Signaling

[FMRC 3260](#)

Explosion Suppression Systems

[FMRC 5700](#)

Liquefied Petroleum Gas Vaporizers, Gas-Air Mixers and Vaporizer-Mixers

[FMRC 7151, 7156 & 7157](#)

Earthquake Actuated Safety Devices

Sets performance requirements for earthquake actuated devices designed to react to a pre-determined minimum level(s) of seismic disturbance. These devices – including but not limited to fuel gas valves, valve actuators, and electrical or pneumatic switches - are used to shut off fuel supply lines, activate or deactivate other types of supply lines, and activate or deactivate electrical or pneumatic circuits.

[FMRC 7431](#)

Combustion Safeguards and Flame Sensing Systems

[FMRC 7610](#)

International Organization for Standardization (ISO)



Fire-Resistance Tests - Elements of Building Construction - Part 1: General Requirements

[ISO 834-1](#)

Fire Protection - Automatic Sprinkler Systems - Part 1: Requirements and Test Methods for Sprinklers

[ISO 6182-1](#)

Fire Protection - Fire Extinguishing Media - Halogenated Hydro-Carbons - Part 1: Specifications for Halon 1211 and Halon 1301

[ISO 7201-1](#)

Fire Tests - Full-Scale Room Test for Surface Products

[ISO 9705](#)

International Telecommunications Union (ITU)



Fire Protection

[ITU-T L.22](#)

Series L: Construction, Installation and Protection of Cables and Other Elements of Outside Plant - Protection Devices for Through - Cable Penetrations of Fire - Sector partitions

[ITU-T L.32](#)

Military Specifications

Fire Protection for Facilities Engineering, Design, and Construction

[MIL-HDBK-1008](#)

National Electrical Code (NEC)



National Electrical Code (NEC)

Please see page 33 for a complete description.

[NFPA 70](#)

[NFPA 70 \(LL\)](#)

[NFPA 70 CD](#)

National Electrical Code (NEC) - Codigo Electrico Nacional

Please see page 33 for a complete description.

[NFPA 70 Spanish](#)

National Electrical Code (NEC) Handbook & NFPA 70

Please see page 33 for a complete description.

[NFPA 70 Set](#)

[NFPA 70 Set \(LL\)](#)

National Electrical Code Handbook & NFPA 70 in Spanish

Please see page 33 for a complete description.

[NFPA 70 SET SPANISH](#)

National Electrical Manufacturers Association (NEMA)

Training Manual on Fire Alarm Systems

Provides technical information on basic fire alarm systems in common usage. (Replaces NEMA Standards Pub. SB 4.)

[NEMA TRAINING MANUAL](#)

Fire Protection



National Electrical Manufacturers Association (NEMA)



Guide to Proper Use of Smoke Detectors in Duct Applications

Provides much needed information concerning the proper use of smoke detectors in duct applications.

[NEMA GUIDE - DUCT](#)

Guide for Proper Use of System Smoke Detectors

Provides information concerning the applications of smoke detectors used in conjunction with fire alarm systems. Basic principles to be considered are outlined as well as operating characteristics of detectors and environmental factors that may either aid or prevent their operations.

[NEMA GUIDE - SYSTEM](#)

Guide to Code Requirements for Fire Alarm and Detection Systems

Outlines and compares the administrative and technical requirements for installation of fire protective signaling and detection systems in all 50 states and various major cities across the U.S. Provides information on how the regulations are promulgated and applied; and who is responsible for these activities.

[NEMA GUIDE TO CODE](#)

[NEMA GUIDE TO CODE CD](#)

[NEMA GUIDE TO CODE BULK](#)

Training Manual on Fire Alarm Systems

Provides technical information on basic fire alarm systems in common usage. (Replaces NEMA Standards Pub. SB 4.)

[NEMA TRAINING MANUAL](#)

National Fire Protection Association (NFPA)



Fire Prevention Code

[NFPA 1](#)

Installation of Sprinkler Systems

[NFPA 13](#)

Standard for the Installation of Stationary Pumps for Fire Protection

[NFPA 20](#)

Flammable and Combustible Liquids Code

[NFPA 30](#)

National Fire Alarm Code

[NFPA 72](#)

Fire Protection Handbook

[NFPA FPH](#)

Fire Protection Handbook - Manual De Proteccion Contra Incendios

[NFPA FPH SPANISH](#)

Fire Protection Systems- Inspection, Test & Maintenance Manual

[NFPA FPS](#)

Fire Protection Systems, Inspection Test Maintenance Manual
Manual Sistemas De Proteccion Contra Incendios Manual
De Inspeccion, Pruebas Y Mantenimiento *Copyright**
Date 1992***

[NFPA FPS SPANISH](#)

Underwriters Laboratories Inc. (UL)



Fire Tests of Building Construction and Materials

[UL 263](#)

Smoke Detectors for Fire Protective Signaling Systems

[UL 268](#)

Vertical-Tray Fire-Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables

[UL 1685](#)



American Gear Manufacturers Association (AGMA)

Gear Classification and Inspection Handbook, Tolerances and Measuring Methods for Unassembled Spur and Helical Gears (Including Metric Equivalents)

Correlates gear quality levels with gear tooth tolerances. Provides information on manufacturing procedures, master gears, measuring methods, and practices. Partial replacement of AGMA 390.03.

[AGMA 2000](#)

Bevel Gear Classification, Tolerances, and Measuring Methods

Correlates gear accuracy grades with gear tooth tolerances and provides information on manufacturing practices as well as gear measuring methods and practices. Annex material provides guidance on specifying an accuracy grade and information on additional methods of gear inspection.

[AGMA 2009](#)

AGMA 2001 Gear Set

A comprehensive set of gear standards (24) including related ASTM and SAE standards.

[AGMA 2001 SET](#)

Geometry Factors for Determining the Pitting Resistance and Bending Strength of Spur, Helical and Herringbone Gear Teeth

Gives the equations for calculating the pitting resistance geometry factor, I, for external and internal spur and helical gears, and the bending strength geometry factor, J, for external spur and helical gears that are generated by rack-type tools (hobs, rack cutters or generating grinding wheels) or pinion-type tools (shaper cutters). Includes charts which provide geometry factors, I and J, for a range of typical gear sets and tooth forms.

[AGMA 908](#)

Tooth Proportions for Fine - Pitch Spur and Helical Gearing

Includes spur and helical gearing of 20 through 120 diametral pitch with tooth proportions of 20 degree pressure angle and having 7 or more teeth. Tooth proportions shown may also be suitable for gear designs of finer than 120 diametral pitch.

[AGMA 1003](#)

Appearance of Gear Teeth - Terminology of Wear and Failure

This standard provides nomenclature for general modes of gear tooth wear and failure. It classifies, identifies, and describes the most common types of failure and provides information which will, in many cases, enable the user to identify failure modes and evaluate the degree of progression of wear.

[AGMA 1010](#)

Gear Nomenclature, Definitions of Terms with Symbols

Provides the agreed upon definitions and usage for terms, symbols and abbreviations used by the gear industry, as well as terms commonly used in gear load rating. Incorporates terms from AGMA 112.05 and AGMA 116.01.

[AGMA 1012](#)

Gear Classification and Inspection Handbook, Tolerances and Measuring Methods for Unassembled Spur and Helical Gears (Including Metric Equivalents)

Correlates gear quality levels with gear tooth tolerances. Provides information on manufacturing procedures, master gears, measuring methods, and practices. Partial replacement of AGMA 390.03.

[AGMA 2000](#)

Fundamental Rating Factors and Calculation Methods for Involute Spur and Helical Gear Teeth

Presents a comprehensive method for rating the pitting resistance and bending strength of spur and helical involute gear pairs. Includes detailed discussions of factors influencing gear survival and calculation methods.

[AGMA 2001](#)

AGMA 2001 Gear Set

A comprehensive set of gear standards (24) including related ASTM and SAE standards.

[AGMA 2001 SET](#)

Surface Temper Etch Inspection after Grinding

Explains the materials and procedures to determine and evaluate localized overheating on ground surfaces. Includes a system to describe and classify the indications produced during this inspection. Does not provide specific acceptance or rejection criteria.

[AGMA 2007](#)

Assembling Bevel Gears

Prepared expressly for the assembly man in the factory and the service man in the field. Each definition, explanation, and instruction is directed toward the physical appearance of the gears as they are inspected and assembled.

[AGMA 2008](#)

Bevel Gear Classification, Tolerances, and Measuring Methods

Correlates gear accuracy grades with gear tooth tolerances and provides information on manufacturing practices as well as gear measuring methods and practices. Annex material provides guidance on specifying an accuracy grade and information on additional methods of gear inspection.

[AGMA 2009](#)

American Gear Manufacturers Association (AGMA)



Global Engineering Documents®, the retail arm of IHS, and AGMA have teamed together to provide a wide variety of services to the gear industry and its customers. AGMA is a voluntary association with direct interest in the design, manufacture and application of gears and flexible couplings. It was founded in response to market demand for standardized gear products.

[AGMA 908](#)



Cylindrical Wormgearing Tolerance and Inspection Methods

This standard describes and defines variations that may occur in unassembled wormgearing. It displays measuring methods and practices, giving suitable warnings if a preferred probe cannot be used. The applicability of single or double flank composite testing is discussed, using a reference gear. Tooth thickness measurement is shown using direct measurement as well as the use of measurements over wires or pins. Equations for the maximum variations are given for the stated ranges, as a function of size, pitch and tolerance grade.

[AGMA 2011](#)

Specifications for Powder Metallurgy Gears

This standard defines the minimum detailed information to be included in the powder metallurgy gear specifications submitted by the gear purchaser to the gear producer. This information covers gear tooth geometry data, gear drawing specifications and gear material specifications.

[AGMA 6008A](#)

Specification for High Speed Helical Gear Units

This standard includes design, lubrication, bearings, testing, and rating for single and double helical external tooth parallel shaft speed reducers or increasers.

[AGMA 6011](#)

American Petroleum Institute (API)

Rotor Repair

This recommended practice covers the minimum requirements for the inspection and repair of special purpose rotating equipment rotors, bearings, and couplings used in petroleum, chemical, and gas industry service.

[API RP 687](#)

American Petroleum Institute (API)



Rotor Repair

This recommended practice covers the minimum requirements for the inspection and repair of special purpose rotating equipment rotors, bearings, and couplings used in petroleum, chemical, and gas industry service.

[API RP 687](#)

Special - Purpose Gear Units for Petroleum, Chemical and Gas Industry Services

Covers the minimum requirements for special-purpose, enclosed, precision, single- and double-helical one- and two-stage speed increasers and reducers of parallel-shaft design for refinery services. Primarily intended for gears that are in continuous service without installed spare equipment.

[API STD 613](#)

Packaged, Integrally Geared, Centrifugal Air Compressors for Petroleum, Chemical and Gas Industry Services

Establishes the minimum requirements for constant-speed, packaged, integrally geared centrifugal air compressors, including their accessories. It may be applied for gas services other than air that are nonhazardous and non-toxic. This standard is not applicable to machines that develop a pressure rise of less than 0.35 bar (5.0 psi) above atmospheric pressure, which are classed as fans or blowers.

[API STD 672](#)

General - Purpose Gear Units for Petroleum, Chemical and Gas Industry Services

Covers the minimum requirements for general-purpose, enclosed single- and multi-stage gear units incorporating parallel-shaft helical and right angle spiral bevel gears for the petroleum, chemical, and gas industries. Gears manufactured according to this standard are limited to the following pitchline velocities: helical gears shall not exceed 60 meters per second (12,000 feet per minute) and spiral bevel gears shall not exceed 40 meters per second (8,000 feet per minute). This standard includes related lubricating systems, instrumentation, and other auxiliary equipment.

[API STD 677](#)

Deutsches Institut fur Normung, e.V. (DIN)

Power Transmission Elements 1. Standards on Gearing Terminology

[DIN HDBK 106](#)

Deutsches Institut fur Normung, e.V. (DIN)



Tolerances for Cylindrical Gear Teeth; Bases

[DIN 3961](#)

Tolerances for Cylindrical Gear Teeth; Tolerances for Tooth Trace Deviations

[DIN 3962 P2](#)

System of Gear Fits; Backlash, Tooth Thickness, Tolerances

[DIN 3967](#)

Power Transmission Elements 1. Standards on Gearing Terminology

[DIN HDBK 106](#)

Handbook of Practical Gear Design

A detailed, practical guide, and reference to gear technology. The design of all types of gears is covered, from those for small mechanisms to large industrial applications. Gear materials, manufacturing methods, and troubleshooting are also covered. The text is well illustrated with clear diagrams and photographs. The many tables provide needed reference data in a convenient form.

[HANDBOOK OF PRACTICAL](#)



International Organization for
Standardization (ISO)



Cylindrical Gears - ISO System of Accuracy

**Part 1: Definitions and Allowable Values of Deviations
Relevant to Corresponding Flanks of Gear Teeth**

[ISO 1328-1](#)

**Part 2: Definitions and Allowable Values of Deviations
Relevant to Radial Composite Deviations and Runout
Information**

[ISO 1328-2](#)

Calculation of Load Capacity of Spur and Helical Gears

**Part 1: Basic Principles, Introduction and General Influence
Factors**

[ISO 6336-1](#)

Part 2: Calculation of Surface Durability (Pitting)

[ISO 6336-2](#)

Part 3: Calculation of Tooth Bending Strength

[ISO 6336-3](#)

Part 5: Strength and Quality of Materials

[ISO 6336-5](#)

MAAG Gear Book

MAAG Gear Book

Presents MAAG's know-how on the calculation and practice of gears, gear drives, toothed couplings, and synchronous clutch couplings. Includes calculation method for determining load capacity of high speed gears that is a modified approach to ISO 6336, parts 1-5. Includes 440 pages with illustrations.

[MAAG GEAR BOOK](#)



ASME International (ASME)

The American Society of Mechanical Engineers develops codes and standards for engineering professionals, industry, and government.



ASME Screw Threads

Unified Inch Screw Threads (UN & UNR Thread Form)

[ANSI B1.1](#)

Gages and Gaging for Unified Inch Screw Threads

[ANSI B1.2](#)

Screw Thread Gaging Systems for Dimensional Acceptability - Inch and Metric Screw Threads (UN, UNR, UNJ, M, and MJ)

[ASME B1.3M](#)

Acme Screw Threads

[ASME B1.5](#)

Metric Screw Threads: M Profile

[ASME B1.13M](#)

ASME Valves, Fittings, Flanges, and Gaskets

Pipe Flanges & Flanged Fittings

Covers pressure-temperature ratings, materials, dimensions, tolerances, marking, testing, and methods of designating openings for pipe flanges and flanged fittings in sizes NPS 1/2 through NPS 24 and in rating Classes 150, 300, 400, 600, 900, 1500, and 2500. Flanges and flanged fittings may be cast, forged, or (for blind flanges and certain reducing flanges only) plate materials as listed in Table 1A. Requirements and recommendations regarding bolting and gaskets are also included.

[ANSI B16.5](#)

Factory-Made Wrought Steel Buttwelding Fittings

[ASME B16.9](#)

Face-to-Face and End-to-End Dimensions of Valves

[ASME B16.10](#)

Forged Fittings, Socket-Welding and Threaded

[ASME B16.11](#)

Valves - Flanged, Threaded, and Welding Ends

Applies to new valve construction and covers pressure-temperature ratings, dimensions, tolerances, materials, nondestructive examination requirements, testing, and marking for cast, forged, and fabricated flanged, threaded, and welding end, and wafer or flangeless valves of steel, nickel-base alloys, and other alloys.

[ANSI B16.34](#)

ASME Fasteners

Square and Hex Bolts and Screws Inch Series

[ANSI B18.2.1](#)

Square and Hex Nuts (Inch Series)

[ANSI B18.2.2](#)

Socket Cap Shoulder and Set Screws Hex and Spine Keys (Inch Series)

[ASME B18.3](#)

Tapered and Reduced Cross Section Retaining Rings (Inch Series)

[ASME B18.27](#)

Surface Texture (Surface Roughness, Waviness & Lay)

[ANSI B46.1](#)

ASTM International (ASTM)

Metals and Alloys in the Unified Numbering System (UNS)

The UNS 9th Edition contains more than 4,600 Metals and Alloy Designations - including 500 New and Revised since the 1993 edition. UNS designations include a description of the material, its chemical composition, and applicable cross-reference specifications from societies, trade associations and government. Each UNS designation consists of a single-letter prefix followed by five digits (for example S17400).

[ASTM DS 56](#)

ASTM International (ASTM)



ASTM publishes standards, specifications, tests, practices, guides and definitions for materials, products, systems and services. More than 9,000 ASTM standards and related information are used throughout the world and are available through Global.

Standard Specification for Alloy-Steel and Stainless Steel Bolting Materials for High-Temperature Service

[ASTM A 193/A 193M](#)

Standard Specification for Carbon and Alloy Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both

[ASTM A 194/A 194M](#)

Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 KSI Minimum Tensile Strength

[ASTM A 325](#)

Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, and Rivets

[ASTM F 606](#)

Standard Specification for Roof and Rock Bolts and Accessories

[ASTM F 432](#)



ASTM DS 56

Metals and Alloys in the Unified Numbering System (UNS)

The UNS 9th Edition contains more than 4,600 Metals and Alloy Designations - including 500 New and Revised since the 1993 edition. UNS designations include a description of the material, its chemical composition, and applicable cross-reference specifications from societies, trade associations and government. Each UNS designation consists of a single-letter prefix followed by five digits (for example S17400).

[ASTM DS 56](#)
[ASTM DS 56 CD](#)

Fasteners; Rolling Element Bearings

[ASTM 01.08](#)
[ASTM 01.08 CD](#)

British Standards Institution (BSI)



Pipe Threads for Tubes and Fittings Where Pressure-Tight Joints are Made on the Threads (Metric Dimensions)

[BS 21](#)

Pipe Threads for Tubes & Fittings Where Pressure-Tight Joints are Not Made on the Threads (Metric Dimensions)

[BS 2779](#)

ISO Metric Screw Threads Principals & Basic Data

[BS 3643 P1](#)

Specification for Selected Limits of Size

[BS 3643 P2](#)

Deutsches Institut für Normung, e.V. (DIN)



Fasteners 1: Dimensional Standards for Bolts and Screws

[DIN HDBK 10](#)

Fasteners 2: Standards for Pins, Rivets, Keys, Adjusting, and Retaining Rings

[DIN HDBK 43](#)

Standards for Screw Threads

[DIN HDBK 45](#)

Fasteners 3: Standards for Technical Conditions for Bolts, Screws, Nuts, and Washers

[DIN HDBK 55](#)

Fasteners 4: Dimensional Standards for Nuts and Accessories for Bolt/Nut Assemblies

[DIN HDBK 140](#)

Fasteners 5: Basic Standards

[DIN HDBK 193](#)

Hexagon Nuts, Style 1, with Metric Fine Pitch Thread Products Grades A and B

[DIN EN 28673](#)

Hexagon Socket Head Cap Screws

[DIN EN ISO 4762](#)

Plain Washers - Normal Series - Product Grade A

[DIN EN ISO 7089](#)

Encyclopedia of Threaded Fasteners

Written by Frank Jackson

Encyclopedia of Threaded Fasteners

[ENCYCLOPEDIA OF THREADED](#)

Fastener Act

Fastener Act (Contained in 15 CFR part 280)

Commerce and Foreign Trade

The Secretary of Commerce acting through the Director of the National Institute of Standards and Technology (NIST) implemented the Fastener Quality Act (the Act). The Act protects the public safety by: requiring that certain fasteners which are sold in commerce conform to the specifications to which they are represented to be manufactured; providing for accreditation of laboratories engaged in fastener testing; requiring inspection, testing; and certification in accordance with standardized methods of fasteners covered by the Act. The regulation also establishes, within the patent and Trademark Office (PTO), a recordation to identify the manufacturers or distributors of covered fasteners to ensure that the fasteners may be traced to their manufacturers or private label distributors. In addition, the regulations contain provisions on enforcement, civil penalties, and hearing and appeal procedures. [15 CFR 0-299](#)

Global Engineering Documents®

Complete Set of MS/AN/AND Standard Drawings with Index

The MS Drawings Set is the single most useful source of standards drawings information for those who design, construct, procure, or maintain equipment for military applications. The MS Set is a collection of nearly 7,000 current U.S. Military Standard (MS), Air Force-Navy Aeronautical Standard (AN), and Air Force-Navy Design Standard (AND) drawings. The MS Set covers every aspect of hardware, components and fittings in a multitude of applications.

[MS SET](#)

Industrial Fasteners Institute (IFI)

Metric Fastener Standards - A Simplified Standards System for Metric Mechanical Fasteners

[IFI-0100](#)

Fastener Standards

[IFI-0103](#)

Test Procedures for the Performance of Nonmetallic Resistant Element Prevailing-Torque Screws

[IFI-124](#)



Carbon and Alloy Steel Wire, Rods, and Bars for Mechanical Fasteners

IFI-140

International Organization for Standardization

Volume 1: Terminology and Nomenclature - General Reference Standards

[ISO HDBK FASTENERS V1](#)

International Organization for Standardization (ISO)



Quality is a strategic need. It is critical to you and your customers in today's competitive marketplace. Global has the resources to help your company achieve effective quality control by offering fast and complete access to ISO standards and publications.

ISO General Purpose Metric Screw Threads - General Plan

[ISO 261](#)

Mechanical Properties of Fasteners Made of Carbon Steel & Alloy Steel

Part 1: Bolts, Screws and Studs

[ISO 898-1](#)

Part 2: Nut with Specified Proof Load Values-Coarse Thread

[ISO 898-2](#)

Part 7: Torsional Test and Minimum Torques for Bolts and Screws with Nominal Diameters 1 mm to 10 mm

[ISO 898-7](#)

ISO General Purpose Metric Screw Threads - Tolerances - Part 1: Principles and Basic Data

[ISO 965/1](#)

Fasteners - Acceptance Inspection

[ISO 3269](#)

Tolerances for Fasteners - Part 1: Bolts, Screws, Studs and Nuts - Product Grades A, B and C

[ISO 4759-1](#)

General Requirements for the Competence of Testing and Calibration Laboratories

[ISO/IEC 17025](#)

ISO Standards Handbook, Fasteners and Screw Threads



The ISO Standards Handbook, Fasteners and Screw Threads gathers together into two volumes 186 international standards for fasteners and screw threads.

Volume 1: Terminology and Nomenclature - General Reference Standards

[ISO HDBK FASTENERS V1](#)

Volume 2: Product Standards

[ISO HDBK FASTENERS V2](#)

Japanese Standards Association (JSA)

Fasteners and Screw Threads Handbook

Provides terms, designation and drawing, screw threads components, rivets for general use, components of screw threads, fasteners, spanners, and screw drivers.

[JIS FASTENERS HDBK](#)

Global Engineering Documents®



GLOBAL
ENGINEERING
DOCUMENTS®

Complete Set of MS/AN/AND Standard Drawings with Index

The MS Drawings Set is the single most useful source of standards drawings information for those who design, construct, procure, or maintain equipment for military applications. The MS Set is a collection of nearly 7,000 current U.S. Military Standard (MS), Air Force-Navy Aeronautical Standard (AN), and Air Force-Navy Design Standard (AND) drawings. The MS Set covers every aspect of hardware, components and fittings in a multitude of applications.

[MS SET](#)

[MS SET RENEWAL](#)

MS Drawings Index - Index to AN, AND and MS Drawings Standards

Organized into Inch and Metric sections, each containing numeric listings by document number and alphabetic listings by title. Includes number, title, revision level, date, and reaffirmation date if applicable. Updated Quarterly.

[MS INDEX](#)

Military Standards (MS) Drawings are available for individual purchase.



National Aerospace Standards (NAS)

Complete Set of NAS Standards

11-Volume Set, Includes NAS Index, and includes update service after first year.

[NAS SET](#)

National Aerospace Standards (NAS)



Complete Set of NAS Standards

11-Volume Set, Includes NAS Index, and includes update service after first year.

[NAS SET](#)

Renewal for NAS Set

Includes update service after first year.

[NAS SET RENEWAL](#)

Index to National Aerospace Standards

Organized into Inch and Metric sections, each section contains numeric listings by document number and alphabetic listings by title. Document listings include number, title, revision level, date, and reaffirmation date if applicable.

[NAS INDEX](#)

Complete Set of Metric Standards

Contains NA, NAM & DS Documents.

[NAS METRIC SET](#)

Renewal for NAS Metric Set

Includes update service after first year.

[NAS METRIC SET RENEWAL](#)

Global Engineering Documents®



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Qualified Products Lists (QPL) Complete Set

The QPL Complete Set is a comprehensive resource, which identifies parts that have been qualified by test. This collection consists of both federal and military QPLs. The QPL Complete Set is an 11 volume set and includes the QPL Index and update service for the first year.

[QPL COMPLETE SET](#)

[QPL COMPLETE SET RENEWAL](#)

Qualified Products Lists Index

The QPL Index contains both federal and military QPLs and consists of two sections: a numerical listings by document number and alphabetical listing by document title. Each entry includes its number, title, current revision level, current revision date, and reaffirmation date.

[QPL INDEX](#)

Screw Thread Standards for Federal Services (FED-STD-H28)

Compiled by Global Engineering Documents®

Screw Thread Standards for Federal Services Set

Complete with all pertinent updates, this compilation provides the basic standard H28, plus its 24 detailed sub-standards and valuable appendices. This comprehensive source contains the complete collection at substantially less than the cost of individual documents. One volume includes ring binder.

[FED-STD-H28 SET](#)

Global Engineering Documents®



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Source of Supply (SOS)

The Source of Supply (SOS) is a fully illustrated source and selection directory to thousands of hardware components and their suppliers. Let the SOS do the research work for you. The SOS provides the critical information you need to evaluate, compare, and select the hardware components from manufacturing sources, all in one easy-to-use volume. Sections include: AN, MS, NAS, and NASM components organized by part number and part name, listed by size ranges, product materials, and procurement specifications when applicable. The SOS includes: Comprehensive listings of Military Drawings (DSCC), Microcircuit Drawings (SMD), and SAE International (SAE) Standards, which include identified sources for SAE parts and materials. Metric standards, including identified sources for metric parts and materials. Fastener Quality Act (FQA) accreditation bodies and accredited fasteners and metals laboratories listings. Comprehensive lists of manufacturers and distributors, including address, telephone number, fax number and e-mail address.

[SOS](#)



Adam Opel AG (OPEL)



Hydraulically Damping Elastomer Components - Hydro Bushing

[GME 03021](#)

Elastomer for Hydraulics Brake Cuffs

[OPEL QE 001201](#)

EPDM - Elastomer for Hydraulics Brake Cuff

[OPEL QE 001211](#)

American Petroleum Institute (API)

Recommended Practice in the Rheology and Hydraulics of Oil-Well Drilling Fluids

Provides information, procedures, and example calculations to aid in applying rheological principles to liquid oil field drilling fluids.

[API RP 13D](#)

American Petroleum Institute (API)



Recommended Practice in the Rheology and Hydraulics of Oil-Well Drilling Fluids

Provides information, procedures, and example calculations to aid in applying rheological principles to liquid oil field drilling fluids.

[API RP 13D](#)

Recommended Practices for Testing Sand used in Hydraulic Fracturing Operations

Assists gas plant operators in understanding their environmental responsibilities. Describes procedures and equipment that can best be used in testing and evaluating sand for use in hydraulic fracturing operations.

[API RP 56](#)

Centrifugal Pumps for General Refinery Services

Please see page 98 for a complete description.

[API STD 610](#)

Positive Displacement Pumps - Rotary

Covers the minimum requirements for rotary positive displacement pumps for use in the petroleum, chemical, and gas industries. It provides a purchase specification to facilitate the manufacture and purchase of rotary positive displacement pumps.

[API STD 676](#)

Pumps - Shaft Sealing Systems for Centrifugal and Rotary Pumps

Establishes the minimum electromechanical requirements for sealing systems for centrifugal and rotary pumps with seal sizes from 30 millimeters to 120 millimeters (1.5 inches to 4.5 inches). It also provides a standard seal design that has been tested and qualified under the service conditions for which it is intended to operate. In addition, this standard encourages evolving technology through qualification testing, data sheet input, and for engineered seals.

[API STD 682](#)

Sealless Centrifugal Pumps for Petroleum, Heavy Duty Chemical, and Gas Industry Services

API Standard 685 covers the minimum requirements for sealless centrifugal pumps for use in petroleum, heavy duty chemical, and gas industry services. The pumps covered by this standard are, Magnetic Drive Pumps (MDP), and Canned Motor Pumps (CMP).

[API STD 685](#)

ASME International (ASME)



Inspector's Manual for Elevators & Escalators

[ASME A17.2](#)

Specification for Horizontal End Suction Centrifugal Pumps for Chemical Process

[ASME B73.1](#)

Specification for Vertical In-Line Centrifugal Pumps for Chemical Process

[ANSI B73.2M](#)

Specification for Sealless Horizontal End Suction Centrifugal Pumps for Chemical Process

[ANSI B73.3M](#)

Asphalt Institute (AI)

Asphalt in Hydraulics

[AI MS12](#)

Association of Iron and Steel Engineers (AISE)

Selected Bearing, Lubrication and Hydraulics Engineering Papers

[AISE SELECTED BEARING](#)

British Standards Institution (BSI)



Refrigerating Systems and Heat Pumps - Safety and Environmental Requirements - Part 1: Basic Requirements, Definitions, Classification and Selection Criteria

[BS EN 378-1](#)

Machine Tools - Safety - Hydraulic Presses

[BS EN 693](#)

Pumps and Pump Units for Liquids - Common Safety Requirements

[BS EN 809](#)

Safety of Machinery - Safety Requirements for Fluid Power Systems and Their Components - Hydraulics

[BS EN 982](#)



Cameron Hydraulic Data

Cameron Hydraulic Data: A Handy Reference on the Subject of Hydraulics, and Steam
[CAMERON HYDRAULIC DATA](#)

Deutsches Institut für Normung, e.V. (DIN)



Testing of Lubricants and Hydraulic Fluids; Determination of Air Release Properties
[DIN 51381](#)

Determination of Lubricants; Mechanical Testing of Hydraulic Fluids in the Vane - Cell - Pump; General Working Principles
[DIN 51389 P1](#)

Pressure Fluids; Hydraulic Oils; HL Hydraulic Oils
[DIN 51524 P1](#)

Handbook of Hydraulics

Written by Brater, King, Lindell, and Wei

Handbook of Hydraulics
[HANDBOOK OF HYDRAULICS](#)

Hydraulic Institute (HI)

Complete Set of Centrifugal, Reciprocating, Rotary, and Vertical Pump Standards

The greatly expanded Hydraulic Institute ANSI/HI Pump Standards Year 2000 Edition replaces all previous editions. It contains the latest information on the full range of pump types, including definitions, industry terminology, design and application, installation, operation, and maintenance guidelines. It also includes HI's widely accepted test standards in both Inch and Metric units. The 24-document set has been expanded to include more relevant data. In Centrifugal Pump Design and Application, there are seven new sections. A new Mechanical Test section for Centrifugal Pumps and Vertical Pumps has information on set-up and operation of a mechanical integrity test. For Vertical Pump Design and Application, four new sections are included. For Rotary Pumps there is a significant new section on nozzle loads. New general guidelines for pump, a tutorial section with revised text on vibrational dynamics for 11 different pump types and a guideline on condition monitoring for Centrifugal and Vertical pumps are included. A comprehensive index is supplied separately.

[HI M100](#)

Hydraulic Institute (HI)



Complete Set of Centrifugal, Reciprocating, Rotary, and Vertical Pump Standards

The greatly expanded Hydraulic Institute ANSI/HI Pump Standards Year 2000 Edition replaces all previous editions. It contains the latest information on the full range of pump types, including definitions, industry terminology, design and application, installation, operation, and maintenance guidelines. It also includes HI's widely accepted test standards in both Inch and Metric units. The 24-document set has been expanded to include more relevant data. In Centrifugal Pump Design and Application, there are seven new sections. A new Mechanical Test section for Centrifugal Pumps and Vertical Pumps has information on set-up and operation of a mechanical integrity test. For Vertical Pump Design and Application, four new sections are included. For Rotary Pumps there is a significant new section on nozzle loads. New general guidelines for pump, a tutorial section with revised text on vibrational dynamics for 11 different pump types and a guideline on condition monitoring for Centrifugal and Vertical pumps are included. A comprehensive index is supplied separately.

[HI M100](#)

Centrifugal Operations (1.4)

[HI M103](#)

Machine Tools-Horizontal Hydraulic Extrusion Press

[HI M104](#)

Vertical Tests (2.6)

[HI M108](#)

ANS for Reciprocating Pump Tests (Reciprocating Tests 6.6)

[HI M114](#)

General Pump Guidelines (9.1 - 9.5)

[HI M117](#)

Pump Intake Design (9.8)

Provides intake design recommendations for both suction pipes and all types of wet pits.

[HI M123](#)

International Organization for Standardization (ISO)



Hydraulic Fluid Power - Filter Elements - Verification of Fabrication Integrity and Determination of the First BubblePoint

[ISO 2942](#)

Hydraulic Fluid Power - Fluids - Method for Coding

[ISO 4406](#)

Hydraulic Fluid Power - Fluid Contamination - Determination of Particulate Contamination by the Counting Method Using an Optical Microscope

[ISO 4407](#)

Hydraulic Fluid Power - General Rules Relating to Systems

[ISO 4413](#)



Rotodynamic Pumps - Hydraulic Performance Acceptance Tests-Grades 1 and 2

[ISO 9906](#)

Hydraulic Fluid Power - Calibration of Automatic Particle Counters for Liquids

[ISO 11171](#)

Hydraulic Fluid Power Filters - Multi-Pass Method for Evaluating Filtration Performance of a Filter Element

[ISO 16889](#)

Japanese Standards Association (JSA)

Glossary of Terms for Oil Hydraulics and Pneumatics

[JIS B 0142](#)

Hydraulic Brake Master Cylinders for Automotive Hydraulic Brake Systems using a Non-Petroleum Base Brake Fluid

[JIS D 2603](#)

National Electrical Contractors Association (NECA)



Recommended Practice for Installing and Maintaining Motor Control Centers

[NECA 402](#)

National Electrical Manufacturers Association (NEMA)

Motors and Generators

The NEMA MG 1 standard assists users in the proper selection and application of motors and generators. While providing for changes in user needs, advances in technology, and changing economic trends. The MG 1 covers mechanical vibration, methods of cooling, rotating electrical machines, motor rating, dimensions, test and performance, and DC generators.

[NEMA MG 1](#)

[NEMA MG 1 CD](#)

[NEMA MG 1 SET](#)

National Fluid Power Association (NFPA)

Method for Verifying the Fatigue and Establishing the Burst Pressure Ratings of the Pressure Containing Envelope of a Metal Fluid Power Component

[NFPA T2.6.1](#)

Accumulator - Pressure Rating Supplement to NFPA/T2.6.1 R2-2000, Fluid Power Components - Method for Verifying the Fatigue and Establishing the Burst Pressure Ratings of the Pressure Containing Envelope of a Metal Fluid Power Accumulator

[NFPA T3.4.7](#)

Hydraulic Valve-Pressure Rating Supplement to NFPA/T2.6.1 R2-2000 Fluid Power Components - Method for Verifying the Fatigue and Establishing the Burst Pressure Ratings of the Pressure Containing Envelope of a Metal Fluid Power Hydraulic Valve

[NFPA T3.5.26](#)

SAE International (SAE)



Hydraulics - Theory and Application

[SAE BOSCH-HY](#)

Aerospace Fluid Power - Cleanliness Classification for Hydraulic Fluids

[SAE AS 4059](#)

Tests and Procedures for SAE 100R Series Hydraulic Hose and Hose Assemblies

[SAE J343](#)

Hydraulic Tube Fittings

[SAE J514](#)

Assessing Cleanliness of Hydraulic Fluid Power

[SAE J1227](#)

The Association For Manufacturing Technology (AMT)

Safety Requirements, Construction, Care and Use of Mechanical Power Presses

[ANSI B11.1](#)

Hydraulic Power Presses

[ANSI B11.2](#)

Power Press Brakes

[ANSI B11.3](#)

Machine Tools-Horizontal Hydraulic Extrusion Press

[ANSI B11.17](#)

Safeguarding When Referenced by Other B11 Machine Tool Safety Standards - Performance Criteria for the Design, Construction, Care and Operation

[ANSI B11.19](#)



Association for the Advancement of Medical Instrumentation (AAMI)

Medical Device Software - Software Life Cycle Processes

Specifies requirements for medical device software life cycle processes including primary life cycle development and maintenance processes, and supporting processes such as software hazard management, documentation, configuration management, verification and problem resolution. Applies to software that is a stand-alone medical device and to software that is an embedded or integral part of the final device and includes a compliance section based on whether or not the software can cause a hazard or controls risk.

[AAMI SW68](#)

Association for the Advancement of Medical Instrumentation (AAMI)

Biological Evaluation

Biological Evaluation of Medical Devices, Part 14: Identification and Quantification or Degradation Product from Ceramics

Provides guidance on general requirements for the design of procedures to obtain solutions for identification and quantification of degradation products from ceramic materials (including glasses). The part then gives guidance on the analysis of these solutions.

[ANSI/AAMI/ISO 10993-14](#)

Medical Equipment

Blood Pressure Transducers

Specifies safety and performance requirements for transducers, including cables, designed for blood pressure measurements through an in dwelling catheter or direct puncture and disclosure requirements to permit the user to determine compatibility between the transducer and blood pressure monitor.

[AAMI BP22](#)

Diagnostic Electrocardiographic Devices

Establishes minimum safety and performance requirements for electrocardiographic (ECG) systems with direct writing devices which are intended for use in the analysis of rhythm, and of detailed morphology of complex cardiac complexes. Subject to this standard are all parts of the electrocardiographic system necessary to obtain the signal from the surface of the patient's body, to amplify this signal, and to display it in a form suitable for diagnosing the heart's electrical activity. This standard defines requirements for the electrocardiographic recording system, from the input electrodes to the output display.

[AAMI EC11](#)

Cardiac Monitors, Heart Rate Meters and Alarms

Establishes minimum safety and performance requirements for electrocardiographic (ECG) heart rate and waveform monitors. Subject to this standard are all parts of such monitors necessary to (a) obtain a heart rate indication via noninvasive ECG sensing from the patient's body; (b) amplify and transmit this signal and display the heart rate and/or ECG waveform; and (c) provide alarms, based on adjustable alarm criteria, upon the sustained occurrence of the following rate-dependent phenomena: cardiac standstill, bradycardia, and tachycardia.

[AAMI EC13](#)

Ambulatory Electrocardiographs

This standard establishes minimum safety and performance requirements for long-term electrocardiographic monitoring devices (ECGs), also commonly called ambulatory electrocardiographs (AECGs), that are intended for use in the analysis of rhythm and of relevant morphology of cardiac complexes. Subject to this standard are all parts of such devices necessary to: a) obtain a signal from the surface of a patient's body; b) amplify and transmit the signal to recording and display devices; c) record and display the signal; and d) provide summaries of rhythms, conduction disturbances, and displacements of the ST segment.

[AAMI EC38](#)

Automatic External Defibrillators and Remote-Control Defibrillators

Covers energy range, controls and indicators, and other features of automatic or semiautomatic external defibrillators, including those designed for in-hospital use, for use in homes and other locations, and remote-control defibrillators. Also includes requirements for self-adhesive electrodes for monitoring and defibrillation and requirements applicable to optional capabilities such as external pacing.

[AAMI DF39](#)

Electrosurgical Devices

This standard establishes minimum safety and performance requirements for electrosurgical systems. An electrosurgical system consists of a high-frequency electrical-current generator, cables, electrodes, and safety devices for delivering this high-frequency electrical energy to the patient in order to accomplish electrosurgery. The system includes the circuitry and devices needed to control the duration, mode of operation, and intensity of the application. Included within the scope of this standard are electrosurgical devices and the electrosurgical portion of multifunction devices. Examples of devices within the scope of this standard are electrosurgical high-frequency generators and directly related accessories, including active electrodes and cables, dispersive electrodes and cables, and footswitches or other operator-controlled mechanisms for activating the generator output.

[AAMI HF18](#)

Non-automated Sphygmomanometers

This standard establishes labeling requirements, performance requirements, test methods, and referee test methods for nonautomated sphygmomanometers used in the indirect measurement of blood pressure. Included within the scope of this standard are aneroid and mercury gravity sphygmomanometers used in conjunction with a stethoscope or other manual methods for detecting Korotkoff sounds and with any other type of display.

[AAMI SP9](#)



Safety, Design, and Maintenance

Safe Current Limits for Electromedical Apparatus

This standard sets risk current limits and referee test methods for electromedical apparatus intended for use in the patient care vicinity and also sets limits for non-patient-contact electromedical apparatus. The standard applies to line- and battery-powered apparatus and to apparatus used singly or with properly connected accessory equipment.

[AAMI ES1](#)

Human Factors Design Process for Medical Devices

Provides ergonomic information and human factors engineering guidance so that optimum user and patient safety, system safety and performance, and operator effectiveness will be reflected in medical device design. This document describes a recommended human factors engineering process for use in fulfilling user interface design requirements in the development of medical devices and systems, including hardware, software, and documentation.

[AAMI HE74](#)

Medical Device Software - Software Life Cycle Processes

Specifies requirements for medical device software life cycle processes including primary life cycle development and maintenance processes, and supporting processes such as software hazard management, documentation, configuration management, verification and problem resolution. Applies to software that is a stand-alone medical device and to software that is an embedded or integral part of the final device and includes a compliance section based on whether or not the software can cause a hazard or controls risk.

[AAMI SW68](#)

Medical Devices - Application of Risk Management to Medical Devices

Specifies a procedure for the manufacturer to identify the hazards associated with medical devices and their accessories including in vitro diagnostic devices, estimate and evaluate the risks, control these risks, and monitor the effectiveness of the control. This standard does not specify acceptable risk.

[AAMI/ISO 14971](#)

Sterilization

Sterilization of Health Care Products - Radiation Sterilization - Substantiation of 25kGy as a Sterilization Dose - Method VDmax

This technical report describes a method of substantiation of 25 kGy as the sterilization dose for radiation sterilization of health care products with an average bioburden for the entire product unit (SIP=1) less than 1000 colony-forming units (cfu). Application of the method described in this technical report may be used to meet the requirements specified under subclause 6.2.2 relating to product qualification in ANSI/AAMI/ISO 11137:1994.

[AAMI TIR27](#)

Sterilization of Health Care Products - Biological Indicators - Guidance for the Selection, Use and Interpretation of Results

Provides guidance for the selection, use, and interpretation of results from the application of biological indicators in the development, validation, and routine monitoring of sterilization processes

[AAMI/ISO 14161](#)

Sterilization of Health Care Products - Radiation Sterilization - Product Families and Sampling Plans for Verification Dose Experiments and Sterilization Dose Audits, and Frequency of Sterilization Dose Audits

Describes three approaches that the primary manufacturer can use to reduce the total number of product units tested to establish and audit the radiation sterilization dose while maintaining assurance that the designated sterility assurance level (SAL) is achieved. This TIR is intended to be used in conjunction with ANSI/AAMI/ISO 11137.

[ANSI/AAMI/ISO TIR 15843](#)

ASTM International (ASTM)

Medical Devices; Emergency Medical Services ASTM 13.01

ASTM International (ASTM)



Biocompatibility

Standard Test Method for Conducting a 90-Day Oral Toxicity Study in Rats

[ASTM E 1372](#)

Standard Practice for Testing for Biological Responses to Particles In Vivo

[ASTM F 1904](#)

Cardiovascular/Neurology

Standard Specification for Wrought Titanium-6 Aluminum-4 Vanadium ELI (Extra Low Interstitial) Alloy for Surgical Implant Applications (UNS R56401)

[ASTM F 136](#)

Standard Specification for Wrought 18 Chromium-14 Nickel-2.5 Molybdenum Stainless Steel Bar and Wire for Surgical Implants (UNS S31673)

[ASTM F 138](#)

Standard Specification for Wrought 35 Cobalt-35 Nickel-20 Chromium-10 Molybdenum Alloy for Surgical Implant Applications (UNS R30035)

[ASTM F 562](#)

Standard Practice for Evaluating and Specifying Implantable Shunt Assemblies for Neurosurgical Application

[ASTM F 647](#)

General Hospital/General Plastic Surgery

Standard Specification for Mercury-In-Glass, Maximum Self-Registering for Clinical Thermometers

[ASTM E 667](#)

Standard Specification for Phase Change-Type Disposable Fever Thermometer for Intermittent Determination of Human Temperature

[ASTM E 825](#)

PRIORITY CODE H56

To order or for more information: 800-854-7179 (USA/Canada) • fax: 303-397-2740 • global.ihs.com

Abstracts taken from information provided by vendor.



Standard Specification for Direct-Reading Liquid Crystal Forehead Thermometers

ASTM E 1061

Standard Specification for Clinical Thermometer Probe Covers and Sheaths

ASTM E 1104

Standard Specification for Electronic Thermometer for Intermittent Determination of Patient Temperature

ASTM E 1112

Standard Specification for Infrared Thermometers for Intermittent Determination of Patient Temperature

ASTM E 1965

Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Synthetic Blood

ASTM F 1670

Standard Test Method for Resistance of Medical Face Masks to Penetration by Synthetic Blood (Horizontal Projection of Fixed Volume at a Known Velocity)

ASTM F 1862

Medical Devices

Medical Devices; Emergency Medical Services

Please see page 9 for a complete description.

ASTM 13.01

Obstetrics-Gynecology/Gastroenterology

Standard Performance Specification for Foley Catheter

ASTM F 623

Standard Practice for Cleaning and Disinfection of Flexible Fiberoptic and Video Endoscopes Used in the Examination of the Hollow Viscera

ASTM F 1518

Orthopaedic

Standard Specification and Test Methods for Metallic Medical Bone Screws

ASTM F 543

Standard Specification for Unalloyed Titanium for Surgical Implant Applications (UNS R50250, UNS R50400, UNS R50550, UNS R50700)

ASTM F 67

Standard Practice for Surface Preparation and Marking of Metallic Surgical Implants

ASTM F 86

Standard Specification for Wrought 18 Chromium-14 Nickel-2.5 Molybdenum Stainless Steel Bar and Wire for Surgical Implants (UNS S31673)

ASTM F 138

Standard Specification for Wrought 18 Chromium-14 Nickel-2.5 Molybdenum Stainless Sheet and Strip for Surgical Implants (UNS S31673)

ASTM F 139

Standard Specification for Fixation Pins and Wires

ASTM F 366

Standard Specification for Wrought 35 Cobalt-35 Nickel-20 Chromium-10 Molybdenum Alloy for Surgical Implant Applications (UNS R30035)

ASTM F 562

Standard Specification and Test Methods for Metallic Bone Staples

ASTM F 564

Standard Specification for High-Purity Dense Aluminum Oxide for Surgical Implant Application

ASTM F 603

Standard Specification for Alpha Plus Beta Titanium Alloy Forgings for Surgical Implants

ASTM F 620

Standard Specification for Ultra-High-Molecular Weight Polyethylene Powder and Fabricated Form for Surgical Implants

ASTM F 648

Standard Specification for 18 Chromium-12.5 Nickel-2.5 Molybdenum Stainless Steel for Cast and Solution-Annealed Surgical Implant Applications

ASTM F 745

Standard Specification for Cobalt-28 Chromium-6 Molybdenum Alloy Forgings for Surgical Implants (UNS R31537, R31538, R31539)

ASTM F 799

Standard Practice for Permanent Marking of Orthopaedic Implant Components

ASTM F 983

Standard Specification for Beta-Tricalcium Phosphate for Surgical Implantation

ASTM F 1088

Standard Specification for Titanium-6Aluminum-4 Vanadium Alloy Castings for Surgical Implants (UNS R56406)

ASTM F 1108

Standard Specification for Wrought Titanium-6 Aluminum-7 Niobium Alloy for Surgical Implant Applications (UNS R56700)

ASTM F 1295

Standard Specification for Unalloyed Titanium Wire UNS R50250, UNS R50400, UNS R50550, UNS R50700 for Surgical Implant Applications

ASTM F 1341

Standard Specification for Wrought Titanium-6Aluminum-4Vanadium Alloy for Surgical Implant Applications (UNS R56400)

ASTM F 1472

Standard Specification for Wrought Cobalt-28-Chromium-6-Molybdenum Alloy for Surgical Implants (UNS R31537, UNS R31538, and UNS R31539)

ASTM F 1537

PRIORITY CODE H56

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Abstracts taken from information provided by vendor.



Standard Specification and Test Methods for External Skeletal Fixation Devices

ASTM F 1541

Standard Specification for Titanium and Titanium-6 Aluminum-4 Vanadium Alloy Powders for Coatings of Surgical Implants

ASTM F 1580

Standard Terminology Relating to Spinal Implants

ASTM F 1582

Radiology

Standard Test Method for Measurement of Magnetically Induced Displacement Force on Passive Implants in the Magnetic Resonance Environment

ASTM F 2052

International Electrotechnical Commission (IEC)

Medical Electrical Equipment - Part 1: General Requirements for Safety

This is the major revised and updated baseline of standards for the safety of all medical electrical equipment used by or under the supervision of qualified personnel in the general medical and patient environment. It also contains certain requirements for reliable operation to ensure safety.

IEC 60601-1

Medical Electrical Equipment - Part 1: General Requirements for Safety; Collateral Standards: Electromagnetic Compatibility - Requirements and Tests

Specifies requirements and tests for electromagnetic compatibility of medical electrical equipment and medical electrical systems and serves as the basis of electromagnetic compatibility requirements and tests in particular standards. The existence of electromagnetic emission requirements is essential for the protection of: a) safety services; b) other medical electrical equipment and medical electrical systems; c) non-medical electrical equipment (e.g. computers); and d) telecommunications (e.g. radio/TV, telephone, radio-navigation). The existence of electromagnetic immunity requirements is essential to assure safety of equipment and systems. The immunity test levels specified in this standard (IEC 60601 test levels) represent the range found in the general medical use environment.

IEC 60601-1-2

International Electrotechnical Commission (IEC)



Anaesthetic, Respiratory and Reanimation Equipment

Medical Electrical Equipment - Part 2: Particular Requirements for the Safety of Cardiac Defibrillators and Cardiac Defibrillators - Monitors

Specifies requirements for the safety of cardiac defibrillators.

IEC 60601-2-4

Medical Electrical Equipment - Part 2-12: Particular Requirements for the Safety of Lung Ventilators - Critical Care Ventilators

Specifies the safety requirements for ventilators, as defined below, intended for use in critical care settings. Ventilator: automatic equipment that is intended to augment or provide ventilation of the lungs of the patient when connected to the airway of the patient.

IEC 60601-2-12

Medical Electrical Equipment - Part 2: Particular Requirements of Safety of Baby Incubators

This standard establishes safety requirements for baby incubators with the view to minimizing hazards to the patient and user. It also specifies tests by which compliance requirements can be verified. It does not apply to transport incubators nor infant radiant warmers which are covered in other publications.

IEC 60601-2-19

Medical Electrical Equipment - Part 2: Particular Requirements for the Safety of Transport Incubators

This standard establishes safety standards for the safety of transport incubators which minimize hazards to the patient and user. It also specifies tests to verify compliance with the requirements. It does not apply to baby incubators or radiant warmers.

IEC 60601-2-20

Diagnostic Equipment

Medical Electrical Equipment - Part 2: General Requirements for Safety of Invasive Blood Pressure Monitoring Equipment

Defines requirements specific to the safety, including essential performance, of invasive blood pressure monitoring equipment. Takes into account collateral standard IEC 60601-1-2 (1993): Electromagnetic Compatibility, and collateral standard IEC 60601-1-4 (1996): Programmable Electrical Medical Systems. A section on alarms has been included because alarms are necessary for monitoring equipment.

IEC 60601-2-34



Medical Electrical Equipment - Part 2-37: Particular Requirements for the Safety of Ultrasonic Medical Diagnostic and Monitoring Equipment

Establishes particular requirements for the safety of ultrasonic diagnostic equipment and those aspects thereof which are directly related to safety. Does not cover ultrasonic therapeutic equipment; however, equipment used for the imaging of body structures by ultrasound in conjunction with therapeutic modalities is covered.

[IEC 60601-2-37](#)

Medical Electrical Equipment - Part 2-47: Particular Requirements for the Safety, Including Essential Performance, of Ambulatory Electrocardiographic Systems

Specifies the particular safety requirements for ambulatory electrocardiographic systems. Within the scope of this standard are systems of the following types: a) Systems that provide continuous recording and continuous analysis of the ECG allowing full re-analysis giving essentially similar results. The systems may first record and store the ECG and analyse it later on a separate unit, or record and analyse the ECG simultaneously. The type of storage media used is irrelevant with regard to this standard; b) Systems that provide continuous analysis and only partial or limited recording not allowing a full re-analysis of the ECG. The safety aspects of this standard apply to all types of systems falling in one of the above-mentioned categories.

[IEC 60601-2-47](#)

Medical Electrical Equipment - Part 2-49: Particular Requirements for the Safety of Multifunction Patient Monitoring Equipment

Specifies requirements for the safety of multifunction patient monitoring equipment. Multifunction patient monitoring equipment is defined as a modular or pre-configured device including more than one physiological monitoring unit designed to collect information from a single patient and process it for monitoring purposes and to generate alarms.

[IEC 60601-2-49](#)

Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 2-101: Particular Requirements for In Vitro Diagnostic (IVD) Medical Equipment

Applies to equipment intended for in vitro diagnostic (IVD) medical purposes. This is used for the examination of specimens, including blood and tissue samples, derived from the human body. The standard also covers self-test IVD medical equipment for use by lay persons.

[IEC 61010-2-101](#)

Hospital Equipment

Medical Electrical Equipment - Part 2: Particular Requirements for the Safety of Blankets, Pads and Mattresses, Intended for Heating in Medical Use

Establishes requirements, which minimize hazards to patient and operator, for heating devices such as blankets, pads, mattresses, and fluid-filled mattresses. Specifies tests by which compliance can be verified.

[IEC 60601-2-35](#)

Medical Electrical Equipment - Part 2: Particular Requirements for the Safety of Electrically Operated Hospital Beds

Specifies requirements for safety of electrically operated hospital beds. The object of this standard is to keep the safety hazards to patients, operators, and the environment as low as possible, and to describe tests to verify that these requirements are attained.

[IEC 60601-2-38](#)

Medical Electrical Equipment - Part 2-46: Particular Requirements for the Safety of Operating Tables

Specifies safety requirements for operating tables, whether or not having electrical parts, including transporters used for the transportation of the table top to or from the base or pedestal of an operating table with detachable table top.

[IEC 60601-2-46](#)

Medical Equipment

Medical Electrical Equipment - Part 1: General Requirements for Safety

This is the major revised and updated baseline of standards for the safety of all medical electrical equipment used by or under the supervision of qualified personnel in the general medical and patient environment. It also contains certain requirements for reliable operation to ensure safety.

[IEC 60601-1](#)

Medical Equipment in General

Fundamental Aspects of Safety Standards for Medical Electrical Equipment

This report identifies fundamental considerations to be taken into account in developing standards to ensure the safety of medical electrical equipment. It follows closely recommendations of ISO/IEC Guide 51 and expands on matters which are unique to, or critical in, the application of medical electrical equipment.

[IEC 60513](#)

Medical Electrical Equipment - Part 1: General Requirements for Safety; Collateral Standards: Safety Requirements for Medical Electrical Systems

Applies to the safety of medical electrical systems, as defined as follows: combination of items of equipment, at least one of which must be medical electrical equipment and inter-connected by functional connection or use of a multiple portable socket-outlet. Describes the safety requirements necessary to provide protection for the patient, the operator and surroundings.

[IEC 60601-1-1](#)

Medical Electrical Equipment - Part 1: General Requirements for Safety; Collateral Standards: Electromagnetic Compatibility - Requirements and Tests

Specifies requirements and tests for electromagnetic compatibility of medical electrical equipment and medical electrical systems and serves as the basis of electromagnetic compatibility requirements and tests in particular standards. The existence of electromagnetic emission requirements is essential for the protection of: a) safety services; b) other medical electrical equipment and medical electrical systems; c) non-medical electrical equipment (e.g. computers); and d) telecommunications (e.g. radio/TV, telephone, radio-navigation). The existence of electromagnetic immunity requirements is essential to assure safety of equipment and systems. The immunity test levels specified in this standard (IEC 60601 test levels) represent the range found in the general medical use environment.

[IEC 60601-1-2](#)



Medical Electrical Equipment - Part 1-4: General Requirements for Collateral Standard: Programmable Electrical Medical Systems

Specifies requirements for the process by which a programmable electrical medical system is designed. Serves as the basis of requirements of particular standards, including serving as a guide to safety requirements for the purpose of reducing and managing risk. This standard covers requirement specification, architecture, detailed design and implementation software development, modification, verification and validation, marking and accompanying documents.

[IEC 60601-1-4](#)

Ultrasonics - Surgical Systems - Measurement and Declaration of the Basic Output Characteristics

This standard specifies: 1) the essential non-thermal output characteristics of ultrasonic surgical units; 2) methods of measurement of these output characteristics; and 3) those characteristics which should be declared by the manufacturers of such equipment. This standard is applicable to equipment which meets the requirements of a, b and c below: a) ultrasonic surgical systems operating in the frequency range 20 kHz to 60 kHz; b) ultrasonic surgical systems, whose use is the fragmentation or cutting of human tissue, whether or not those effects are delivered in conjunction with tissue removal or coagulation; and c) ultrasonic surgical systems, in which an acoustic wave is conducted by means of a specifically designed wave guide to deliver energy to the surgical site.

[IEC 61847](#)

Other Medical Equipment

Medical Electrical Equipment - Part 2-25: Particular Requirements for the Safety of Electrocardiographs

Specifies the particular safety requirements for electrocardiographs, intended for the production of detachable electrocardiograms for diagnostic purposes. Also applies to vectorcardiographs and equipment for stress testing.

[IEC 60601-2-25](#)

Safety of Laser Products - Part 8: Guidelines for the Safe Use of Medical Laser Equipment

Serves as a guide intended to give information to the employer and the user on the safe use of lasers and laser equipment classified as class 3B or class 4, for diagnostic and therapeutic applications in healthcare facilities. Explains the control measures recommended for the safety of patients, staff, maintenance personnel, and others. Engineering controls which form part of the laser equipment or the installation are also briefly described to provide an understanding of the general principles of protection.

[IEC/TR 60825-8](#)

Radiographic Equipment

Medical Electrical Equipment - Part 1: General Requirements for Safety - Collateral Standard: General Requirements for Radiation Protection in Diagnostic X-Ray Equipment

Establishes general requirements for protection against ionizing radiation in medical diagnostic x-ray equipment, in order that the dose equivalent to the patient, the operator and other staff can be kept as low as reasonably achievable.

[IEC 60601-1-3](#)

Medical Electrical Equipment Part 2: Particular Requirements for the Safety of Endoscopic Equipment

Establishes particular requirements for the safety of endoscopic equipment and enables parts of endoscopic equipment to be tested together or individually.

[IEC 60601-2-18](#)

Medical Electrical Equipment - Part 2: Particular Requirements for the Safety of Diagnostic and Therapeutic Laser Equipment

Applies to laser equipment for medical applications, classified as a class 3B or class 4 laser product according to the classification in IEC 60825-1.

[IEC 60601-2-22](#)

Electrical Equipment Part 2: Particular Requirements for the Safety of Electroencephalographs

Specifies the particular safety requirements for electroencephalographs defined as medical electrical equipment intended for the production of graphic recordings and/or a visual display of electrical activity of the brain for diagnostic purposes.

[IEC 60601-2-26](#)

Medical Electrical Equipment - Part 2: Particular Requirements for the Safety of Electrocardiographic Monitoring Equipment

Specifies the particular safety requirements for electrocardiographic monitoring equipment defined as 'equipment and associated electrodes for the monitoring and/or recording of heart action potentials and displaying the resultant data locally and/or transmitting to a central station'.

[IEC 60601-2-27](#)

Medical Electrical Equipment Part 2: Particular Requirements for the Safety of Associated Equipment of X-Ray Equipment

Applies to equipment and devices associated to x-ray equipment as used for supporting and relatively positioning the functional components including the patient support used for the application of the x-radiation. This standard applies to all associated equipment not covered by other particular standards.

[IEC 60601-2-32](#)

Medical Electrical Equipment - Part 2-44: Particular Requirements for the Safety of X-Ray Equipment for Computed Tomography

Applies to x-ray equipment for computed tomography (CT scanners). Includes safety requirements for the x-ray generator, and those where high voltage generators are integrated with an x-ray tube assembly. Specify methods for demonstrating compliance with those requirements for CT scanners.

[IEC 60601-2-44](#)

Radiotherapy Equipment - Coordinates, Movements and Scales

Applies to equipment and data related to the process of teleradiotherapy, including patient image data used in relation with radiotherapy treatment planning systems, radiotherapy simulators, isocentric gamma beam therapy equipment, isocentric medical electron accelerators, and non-isocentric equipment when relevant. The object of this standard is to define a consistent set of coordinate systems for use throughout the process of teleradiotherapy, to define the marking of scales (where provided), to define the movements of equipment used in this process, and to facilitate computer control when used.

[IEC 61217](#)



Radionuclide Imaging Devices - Characteristics and Test Conditions Part 1: Positron Emission Tomographs

Specifies terminology and test methods for declaring the characteristics of positron emission tomographs. Positron emission tomographs detect the annihilation radiation of positron emitting radionuclides by coincidence detection. It is intended that the test methods be carried out by the manufacturers, thereby enabling them to declare the characteristics of positron emission tomographs. So, the specifications given in the accompanying documents shall be in accordance with this standard.

[IEC 61675-1](#)

Sterilization and Disinfection

Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-045: Particular Requirements for Washer Disinfectors Used in Medical, Pharmaceutical, Veterinary and Laboratory Fields

Applies to washer disinfectors and other equipment used for washing and disinfection. This is for the treatment of soiled items used in the medical, veterinary, pharmaceutical, and laboratory fields.

[IEC 61010-2-045](#)

Sterilizing Equipment

Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-041: Particular Requirements for Autoclaves Using Steam for the Treatment of Medical Materials, and for Laboratory Processes

Applies to autoclaves, including those with an automatic loading and unloading system, which incorporate a pressure vessel, using steam within the absolute pressure range from 0 to 500 kPa, and intended for the treatment of medical materials and for laboratory processes, such as sterilization.

[IEC 61010-2-041](#)

Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-042: Particular Requirements for Autoclaves and Sterilizers Using Toxic Gas for the Treatment of Medical Materials, and for Laboratory Processes

Applies to autoclaves and sterilizers, including those with an automatic loading and unloading system, which incorporate a chamber using toxic gas intended for the treatment of medical materials, and for laboratory processes, such as sterilization.

[IEC 61010-2-042](#)

Surgical Instruments and Materials

Medical Electrical Equipment - Part 2-2: Particular Requirements for the Safety of High Frequency Surgical Equipment

Specifies requirements for the safety of high frequency surgical equipment used in medical practice.

[IEC 60601-2-2](#)

Medical Electrical Equipment - Part 2-41: Particular Requirements for the Safety of Surgical Luminaires and Luminaires for Diagnosis

Establishes particular requirements for the safety of surgical luminaires and luminaires for diagnosis.

[IEC 60601-2-41](#)

Therapy Equipment

Medical Electrical Equipment - Part 2-1: Particular Requirements for the Safety of Electron Accelerators in the Range 1 Mev to 50 Mev

Establishes requirements to be complied with by manufacturers in the design and construction of electron accelerators for use in radiotherapy and defines type tests and site tests. Places limits on the degradation of equipment performance beyond which it can be presumed that a fault condition exists and where an interlock then operates to prevent continued operation of the equipment.

[IEC 60601-2-1](#)

Medical Electrical Equipment - Part 2-5: Particular Requirements for the Safety of Ultrasonic Physiotherapy Equipment

Specifies requirements and tests for the safety of ultrasonic physiotherapy equipment.

[IEC 60601-2-5](#)

Medical Electrical Equipment - Part 2: Particular Requirements for the Safety of Nerve and Muscle Stimulators

Specifies particular requirements for the safety of electrical stimulators of muscles and nerves in the specialized practice of physical medicine. It excludes stimulators used with implanted electrodes, brain stimulation, neurological research, cardiac pacemakers, defibrillators, and other surgical procedures.

[IEC 60601-2-10](#)

Graphical Symbols for Electrical Equipment in Medical Practice

This composite publication brings together the specialized graphical symbols used in medical practice and which heretofore appeared in more general lists. It is divided into five sections, as follows: general relevant symbols; specialized symbols to identify the classification of equipment; safety symbols; symbols for ionizing radiation equipment; and symbols for display, communication, and recording.

[IEC 60878](#)

Transfusion, Infusion and Injection Equipment

Medical Electrical Equipment - Part 2: Particular Requirements for the Safety of Haemodialysis Equipment

Specifies the minimum safety requirements for single patient haemodialysis, haemodiafiltration and haemofiltration equipment. These devices are intended for use either by medical staff or under the supervision of medical expertise, including haemodialysis, haemodiafiltration and haemofiltration equipment operated by the patient.

[IEC 60601-2-16](#)

Medical Electrical Equipment - Part 2-24: Particular Requirements for the Safety of Infusion Pumps and Controllers

Specifies the requirements for infusion pumps, infusion controllers, syringe pumps and pumps for ambulatory use. These devices are intended for use by medical staff and home patients as prescribed and medically indicated. It is the responsibility of the manufacturer to ensure that the requirements of this standard are reliably implemented.

[IEC 60601-2-24](#)



International Organization for Standardization (ISO)

Biological Evaluation of Medical Devices - Part 1: Evaluation and Testing

ISO 10993-1

Quality Systems - Medical Devices - Particular Requirements for the Application of ISO 9001

Specifies, in conjunction with the application of ISO 9001, the quality system requirements for the design/development and, when relevant, installation and servicing of medical devices.

ISO 13485

Medical Devices - Application of Risk Management to Medical Devices

ISO 14971

Lung Ventilators for Medical Use - Part 2: Particular Requirements for Home Care Ventilators

ISO 10651-2

Lung Ventilators - Part 4: Particular Requirements for Operator-Powered Resuscitators

ISO 10651-4

Sleep Apnoea Breathing Therapy - Part 1: Sleep Apnoea Breathing Therapy Devices

ISO 17510-1

Implants for Surgery, Prosthetics and Orthotics

Implants for Surgery - Acrylic Resin Cements

This international standard specifies the physical, mechanical, packaging, and labeling requirements for curing polymerizing radio-opaque and non-radio-opaque resin cements based on poly(methacrylic acid esters). It applies to two types of cement, intended respectively for use with a syringe or in the dough state, for the fixation of internal orthopaedic prostheses and supplied as units containing premeasured amounts of sterile powder and of sterile liquid in forms suitable for mixing at the time of implantation.

ISO 5833

Implants for Surgery - Metal Bone Screws with Hexagonal Drive Connection, Spherical Under-Surface of Head, Asymmetrical Thread - Dimensions

Gives dimensions and tolerances and the code for screw thread. Screws with shallow thread shall be as given in Figures 1 and 2 and Tables 1 and 2. Screws with deep thread shall be as given in Figures 3 and 4, and in Tables 3 and 4. Marking and packaging shall be in accordance with ISO 6018. An example for combined screw is given in Annex A. An interrelationship of international standards dealing with bone screws, bone plates and relevant tools is given in Annex B. Bibliography is given in Annex C.

ISO 5835

Cardiac Pacemakers - Part 1: Implantable Pacemakers

This standard is valid for all types of implantable pacemakers and specifies as well the basic terms and definitions as the requirements for designation and packaging of pacemakers. In connection with the corresponding test methods minimum requirements are given for the ability of a pacemaker generator to resist adverse environmental conditions. The Annexes A to F contain a code system for identification of the mode of operation, test methods, evaluation of lifetime, certain forms and the symbols that can be used instead of written words.

ISO 5841-1

Implants for Surgery - Cardiac Pacemakers - Part 2: Reporting of Clinical Performance of Populations of Pulse Generators or Leads

ISO 5841-2

Implants for Surgery - Cardiac Pacemakers - Part 3: Low-Profile Connectors (IS-1) for Implantable Pacemakers

ISO 5841-3

International Organization for Standardization (ISO)



Anaesthetic, Respiratory and Reanimation Equipment

Oxygen Monitors for Monitoring Patient Breathing Mixtures - Safety Requirements

ISO 7767

Humidifiers for Medical Use - General Requirements for Humidification Systems

ISO 8185

Oxygen Concentrators for Medical Use - Safety Requirements

Based on IEC 60601-1. Specifies safety requirements for oxygen concentrators. Does not apply to oxygen concentrators intended to supply gas to several patients via a medical gas pipeline system.

ISO 8359

Anaesthetic and Respiratory Equipment - Heat and Moisture Exchangers (HMEs) for Humidifying Inspired Gases in Humans - Part 1: HMEs for use with Minimum Tidal Volumes of 250 ml

ISO 9360-1

Anaesthetic and Respiratory Equipment - Heat and Moisture Exchangers (HMEs) for Humidifying Inspired Gases in Humans - Part 2: HMEs for use with Tracheostomized Patients Having Minimum Tidal Volumes of 250 ml

ISO 9360-2

Medical Suction Equipment - Part 1: Electrically Powered Suction Equipment - Safety Requirements

ISO 10079-1

Medical Suction Equipment - Part 3: Suction Equipment Powered from a Vacuum or Pressure Source

ISO 10079-3



Haemodialysers, Haemofilters and Haemoconcentrators

This standard specifies the requirements for devices applied in the haemodialysis in a single use. Design materials, test methods for biocompatibility, restrictions of sterilization and some performance characteristics are not included. Further it does not cover devices assembled and sterilized by the manufacturer. The requirements for devices used in the extracorporeal blood circuit are given in ISO 8638. The user, the extracorporeal blood circuit, plasmafilters, haemoperfusion devices, vascular access devices, blood pumps, dialysing fluid systems, etc.

[ISO 8637](#)

Extracorporeal Blood Circuit for Haemodialysers, Haemofilters and Haemoconcentrators

This standard specifies the requirements for the extracorporeal blood circuit applied in the haemodialysis in a single use. Design materials, test methods for biocompatibility, restrictions of sterilization and some performance characteristics are not included. Further it does not cover the hardware of neither haemodialysers, haemofilters and haemoconcentrators nor blood pumps, pressure monitors, air detectors, systems, etc.

[ISO 8638](#)

Cardiac Defibrillators - Connector Assembly DF-1 for Implantable Defibrillators - Dimensions and Test Requirements

This international standard specifies a unipolar connector assembly, DF-1, intended for use in connecting implantable defibrillator leads to implantable defibrillator generators that do not produce more than 1 kV/50 A peak output. Essential dimensions and performance requirements related to connector fit are specified, along with test methods.

[ISO 11318](#)

Implants for Surgery - Hydroxyapatite - Part 1: Ceramic Hydroxyapatite

[ISO 13779-1](#)

Implants for Surgery - Hydroxyapatite - Part 2: Coatings of Hydroxyapatite

[ISO 13779-2](#)

Implants for Surgery - Hydroxyapatite - Part 4: Determination of Coating Adhesion Strength

This part of ISO 13779 specifies test methods for measurement of the adhesion strength of hydroxyapatite coatings intended for use on components of surgical implants.

[ISO 13779-4](#)

Poly(L-Lactide) Resins and Fabricated Forms for Surgical Implants - In Vitro Degradation Testing

Describes methods for the determination of chemical and mechanical changes in properties of poly (L-lactide) under in vitro degradation testing conditions. The poly L-lactid is used for the manufacture of surgical implants. The purpose is to compare and/or evaluate materials or processing conditions.

[ISO 13781](#)

Concentrates for Haemodialysis and Related Therapies

This international standard is applicable to dry and liquid concentrates to be diluted for use as dialysing fluids in haemodialysis or haemodiafiltration. It addresses chemical quality and purity, microbial contamination, handling, measurement and labelling of concentrates, the requirements for containers, and the tests to monitor concentrates.

[ISO 13958](#)

Water for Haemodialysis and Related Therapies

This international standard specifies minimum requirements for water to be used in the preparation of concentrates and dialysing fluids for haemodialysis and haemodiafiltration.

[ISO 13959](#)

Implants for Surgery - Wear of Total Hip-Joint Prostheses - Part 1: Loading and Displacement Parameters for Wear-Testing Machines and Corresponding Environmental Conditions for Test

This part of ISO 14242 specifies the relative angular movement between articulating components, the pattern of the applied force, speed and duration of testing, sample configuration, and test environment to be used for the wear testing of total hip-joint prostheses.

[ISO 14242-1](#)

Implants for Surgery - Wear of Total Hip-Joint Prostheses - Part 2: Methods of Measurement

[ISO 14242-2](#)

Non-Active Surgical Implants - General Requirements

[ISO 14630](#)

Prostheses - Structural Testing of Hip Units

[ISO 15032](#)

Laboratory Medicine

Biological Evaluation of Medical Devices - Part 1: Evaluation and Testing

[ISO 10993-1](#)

Biological Evaluation of Medical Devices - Part 2: Animal Welfare Requirements

Specifies minimum requirements for the use of animals in biological testing. Is also intended to establish guidelines which allow the scientist to respect life in general, to reduce the number of animal experiments and the number of animals used in experiments, to minimize suffering, and maintain the quality of life of the animals used in the experiments. Applies to the experimentation performed on vertebrates.

[ISO 10993-2](#)

Biological Evaluation of Medical Devices - Part 3: Tests for Genotoxicity, Carcinogenicity and Reproductive Toxicity

Most tests specified refer to the OECD guidelines for testing of chemicals. At the time of testing, these tests are to be performed according to current OECD guidelines. Guidance on selection of tests is provided in ISO 10993-1.

[ISO 10993-3](#)



Biological Evaluation of Medical Devices - Part 4: Selection of Tests for Interactions with Blood

Describes a classification of medical and dental devices that are intended for use in contact with blood, the fundamental principles governing the evaluation of the interaction of devices with blood, and the rationale for structured selection of tests, together with the principles and scientific basis of these tests. Annex A describes evaluation of cardiovascular devices and prostheses during in vivo function.

[ISO 10993-4](#)

Biological Evaluation of Medical Devices - Part 5: Tests for Cytotoxicity: In Vitro Methods

[ISO 10993-5](#)

Biological Evaluation of Medical Devices - Part 6: Test for Local Effects After Implantation

Specifies test methods for the assessment of the local effects of an implant material on living tissue, at both the macroscopic and microscopic level. The local effects are evaluated by a comparison of the tissue response caused by a test specimen to that caused by materials used in medical devices whose clinical acceptability has been established. The test methods for local effects after implantation are used to assess subchronic effects (short-term, up to 12 weeks), or chronic effects (long-term, longer than 12 weeks).

[ISO 10993-6](#)

Biological Evaluation of Medical Devices - Part 7: Ethylene Oxide Sterilization Residuals

Specifies allowable limits for residual ethylene oxide (EO) and ethylene chlorohydrin (ECH) in individual EO-sterilized medical devices and procedures for the measurement of EO and ECH. Does not apply for EO-sterilized devices that have no patient contact such as in vitro diagnostic devices.

[ISO 10993-7](#)

Biological Evaluation of Medical Devices - Part 8: Selection and Qualification of Reference Materials for Biological Tests

[ISO 10993-8](#)

Biological Evaluation of Medical Devices - Part 9: Framework for Identification and Quantification of Potential Degradation Products

[ISO 10993-9](#)

Biological Evaluation of Medical Devices - Part 10: Tests for Irritation and Delayed-Type Hypersensitivity

This part of ISO 10993 describes the procedure for the assessment of medical devices and their constituent materials with regard to their potential to produce irritation and delayed-type hypersensitivity.

[ISO 10993-10](#)

Biological Evaluation of Medical Devices - Part 11: Tests for Systemic Toxicity

Specifies methodologies for the evaluation of the systemic toxicity potential of medical devices which release constituents into the body. Includes pyrogenicity testing. The methods cited are from international standards, national standards, directives, and regulations.

[ISO 10993-11](#)

Biological Evaluation of Medical Devices - Part 12: Sample Preparation and Reference Materials

Specifies requirements and guidance on procedures to be followed in the preparation of samples of medical devices for testing in biological systems. Includes test material selection, selection of representative portions from a device, and selection of reference materials to demonstrate the suitability of the test system.

[ISO 10993-12](#)

Biological Evaluation of Medical Devices - Part 13: Identification and Quantification of Degradation Products from Polymeric Medical Devices

[ISO 10993-13](#)

Biological Evaluation of Medical Devices - Part 14: Identification and Quantification of Degradation Products from Ceramics

[ISO 10993-14](#)

Biological Evaluation of Medical Devices - Part 15: Identification and Quantification of Degradation Products from Metals and Alloys

[ISO 10993-15](#)

Biological Evaluation of Medical Devices - Part 16: Toxicokinetic Study Design for Degradation Products and Leachables

[ISO 10993-16](#)

Clinical Investigation of Medical Devices

Pertains to the clinical investigation in human subjects of those medical devices whose clinical performance needs assessment. Specifies the requirements for conducting the clinical investigation and documentation. Provides the framework for systematic written procedures for the organization, design, implementation, and data collection.

[ISO 14155](#)

Medical Equipment in General

Quality Systems - Medical Devices - Particular Requirements for the Application of ISO 9001

Specifies, in conjunction with the application of ISO 9001, the quality system requirements for the design/development and, when relevant, installation and servicing of medical devices.

[ISO 13485](#)

Quality Systems - Medical Devices - Particular Requirements for the Application of ISO 9002

Specifies, in conjunction with the application of ISO 9002, the quality system requirements for the production and, when relevant, installation and servicing of medical devices.

[ISO 13488](#)

Quality Systems - Medical Devices - Guidance on the Application of ISO 13485 and ISO 13488

[ISO 14969](#)

Medical Devices - Application of Risk Management to Medical Devices

[ISO 14971](#)

Medical Devices - Symbols to be used with Medical Device Labels, Labelling and Information to be Supplied

[ISO 15223](#)



Physical Medicine

Wheelchairs - Part 1: Determination of Static Stability ISO 7176-1

Wheelchairs - Part 2: Determination of Dynamic Stability of Electric Wheelchairs ISO 7176-2

Sterilization and Disinfection in General

Sterilization of Health Care Products - Requirements for Validation and Routine Control - Industrial Moist Heat Sterilization

Specifies requirements for the use of moist heat in sterilization process development, validation of the sterilization process, and control of routine sterilization. Covers all moist heat processes, including saturated steam and air-steam mixtures, and applies to all industrial manufacturers and all others who perform contract moist heat sterilization. Although moist heat sterilization in non-industrial health care facilities is not specifically covered, the principles outlined may be useful to the user of moist heat sterilization in these facilities.

ISO 11134

Medical Devices - Validation and Routine Control of Ethylene Oxide Sterilization

Establishes requirements and guidance. Particular attention is drawn to the need for specific testing for safety, quality and efficacy, possibly exceeding the general requirements, which may be necessary for a specific product. Attention is drawn to the existence in some countries of regulations laying down safety requirements for handling ethylene oxide and for premises in which it is used as well as of regulations laying down limits for the level of ethylene oxide residues within medical devices and products.

ISO 11135

Sterilization of Health Care Products - Requirements for Validation and Routine Control - Radiation Sterilization

Specifies requirements for validation, process control and routine monitoring in the radiation sterilization of health care products. Applies to continuous and batch type gamma irradiators using the radionuclides ⁶⁰Co and ¹³⁷Cs, and to irradiators using a beam from an electron or x-ray generator. Does not cover facility design, licensing, operator training, factors related to radiation safety, or the assessment of the suitability of the product for its intended use.

ISO 11137

Sterilization of Health Care Products - Biological Indicators - Part 1: General

Specifies general production, labeling and performance requirements for the manufacture of biological indicators and suspensions intended for use in the validation and monitoring of sterilization cycles. Does not contain requirements for product directly inoculated with test organisms, or recovery procedures for such inoculated product.

ISO 11138-1

Sterilization of Health Care Products - Biological Indicators - Part 2: Biological Indicators for Ethylene Oxide Sterilization

Provides specific requirements for test organisms and biological indicators intended for use in assessing the performance of sterilizers employing pure ethylene oxide gas or admixtures of the gas with diluent gases at sterilizing temperatures within the range of 20° C to 65° C.

ISO 11138-2

Sterilization of Health Care Products - Biological Indicators - Part 3: Biological Indicators for Moist Heat Sterilization

Gives specific requirements for test organisms and biological indicators intended for use in assessing the performance of sterilizers employing moist heat as the sterilant.

ISO 11138-3

Sterilization of Medical Devices - Microbiological Methods - Part 1: Estimation of Population of Microorganisms on Products

Specifies general criteria for the estimation of the population of viable microorganisms on medical devices or packages. Not applicable for the enumeration or identification of viral contamination and to the microbiological monitoring of the environment in which medical devices are manufactured.

ISO 11737-1

Sterilization of Medical Devices - Microbiological Methods - Part 2: Tests of Sterility Performed in the Validation of a Sterilization Process

ISO 11737-2

Aseptic Processing of Health Care Products - Part 1: General Requirements

ISO 13408-1

Sterilization of Health Care Products - Radiation Sterilization - Substantiation of 25 kGy as a Sterilization Dose for Small or Infrequent Production Batches

ISO TS 13409 describes a method of substantiating the suitability of 25 kGy as a sterilization dose for radiation sterilization of products with an average bioburden of less than 1,000 colony-forming units (cfu) that are manufactured in small quantities (less than 1,000 product units).

ISO TS 13409

Sterilization of Health Care Products - General Requirements for Characterization of a Sterilizing Agent and the Development, Validation and Routine Control of a Sterilization Process for Medical Devices

ISO 14937

Sterilization of Health Care Products - Radiation Sterilization - Product Families and Sampling Plans for Verification Dose Experiments and Sterilization Dose Audits, and Frequency of Sterilization Dose Audits

ISO TS 15843

Surgical Instruments and Materials

Surgical Instruments - Metallic Materials - Part 1: Stainless Steel

Contains a survey and a selection of stainless steels available for use in the manufacture of surgical, dental and specific instruments for orthopaedic surgery. It takes into account steel grades and chemical compositions.

ISO 7153/1

Surgical and Dental Hand Instruments - Determination of Resistance Against Autoclaving, Corrosion and Thermal Exposure

Describes test methods to determine the resistance of stainless steel surgical and dental hand instruments against autoclaving, corrosion, and thermal exposure.

ISO 13402



Transfusion, Infusion and Injection Equipment

Conical Fittings with a 6% (Luer) Taper for Syringes, Needles and Certain Other Medical Equipment - Part 1: General Requirements

Specification of the requirements for conical (Luer) fittings for use with hypodermic syringes and needles and with certain other apparatus for medical use such as transfusion and infusion sets. It covers fittings made of rigid and semi-rigid materials and includes test methods for gauging and performance. It excludes provision for more flexible or elastomeric materials. The Annex on liquid leakage is given as an example.

[ISO 594-1](#)

Conical Fittings With a 6% (Luer) Taper for Syringes, Needles and Certain Other Medical Equipment - Part 2: Lock Fittings

[ISO 594-2](#)

Sterile Hypodermic Needles for Single Use

Specifies the following requirements for needles of nominal outside diameters 0.3 mm and 1.2 mm: nomenclature for components, cleanliness, limits for acidity and alkalinity, size designation, colour coding, needle hub, sheath, needle tube, needle point, performance, packaging, labeling, storage container, and transport wrapping.

[ISO 7864](#)

Sterile Hypodermic Syringes for Single Use - Part 1: Syringes for Manual Use

Specifies requirements (cleanliness, limits for acidity and alkalinity, limits for extractable metals, lubricant, tolerance on graduated capacity, graduated scale, barrel, piston/plunger assembly, nozzle, performance, packaging, and labeling) for sterile single-use hypodermic syringes made of plastic materials and intended for the aspiration of fluids or for the injection of fluids immediately after filling. Excludes e.g. syringes for use with insulin, and single-use syringes made of glass.

[ISO 7886-1](#)

Sterile Hypodermic Syringes for Single Use - Part 2: Syringes for Use with Power-Driven Syringes Pumps

Specifies requirements for sterile single-use hypodermic syringes of nominal capacity 5 ml and above, made of plastic materials and intended for use with power-driven syringe pumps. Does not apply to syringes for use with insulin, single-use syringes made of glass, syringes prefilled with the injection by the manufacturer, and syringes supplied with the injection as a doctors kit.

[ISO 7886-2](#)

Infusion Equipment for Medical Use - Part 4: Infusion Sets for Single Use, Gravity Feed

[ISO 8536-4](#)

Sterile Single-Use Syringes, With or Without Needle, for Insulin

Specifies requirements and test methods for syringes. Applies to syringes for use with 40 units of insulin/ml (U-40) and 100 units of insulin/ml (U-100). Annexes A, B, C, D, E, F, and G forms an integral part of this standard. Annexes H and J are for information only.

[ISO 8537](#)

Stainless Steel Needle Tubing for Manufacture of Medical Devices

Specifies the dimensions, surface and mechanical properties of normal- and thin-walled tubing of designated metric sizes 3.4 mm to 0.3 mm, and of extra-thin-walled tubing of designated metric sizes 2.1 mm to 0.6 mm.

[ISO 9626](#)

Sterile, Single-Use Intravascular Catheters - Part 1: General Requirements

Specifies general requirements for intravascular catheters, supplied in the sterile condition and intended for single use, for any application. Does not apply to intravascular catheter accessories, which will be covered by a separate standard.

[ISO 10555-1](#)

Sterile, Single-Use Intravascular Catheters - Part 2: Angiographic Catheters

[ISO 10555-2](#)

Sterile, Single-Use Intravascular Catheters - Part 3: Central Venous Catheters

[ISO 10555-3](#)

Sterile, Single-Use Intravascular Catheters - Part 4: Balloon Dilatation Catheters

[ISO 10555-4](#)

Sterile, Single-Use Intravascular Catheters - Part 5: Over-Needle Peripheral Catheters

[ISO 10555-5](#)

Sterile, Single-Use Intravascular Catheter Introducers

[ISO 11070](#)

National Electrical Manufacturers Association (NEMA)

Digital Imaging and Communications in Medicine (DICOM)

DICOM standards, produced by the American College of Radiology in conjunction with NEMA, enable manufacturers and users of medical imaging equipment to quickly and easily communicate and exchange vital digital image data and associated patient information. Global offers the PS 3 standards on CD-ROM in PDF format to accommodate multiple users and platforms. It is completely indexed for cross-document searching, includes the ability to use keywords to locate information quickly, and cut-and-paste text and images that allows you to move information directly to a working document. You can purchase DICOM standards, including recently released revisions, as a complete set on CD-ROM or in hardcopy. Also available in individual sections.

[NEMA PS 3 SET](#)



National Electrical Manufacturers Association (NEMA)



Determination of Signal to Noise Ratio (SNR) in Diagnostic Magnetic Resonance Images

Describes test methods for measuring the signal-to-noise ratio performance of diagnostic magnetic resonance imaging systems under a specific set of conditions, using head and body coils and performing proton imaging.

[NEMA MS 1](#)

Determination of Image Uniformity in Diagnostic Magnetic Resonance Images

Defines a test method for measuring image uniformity performance of diagnostic magnetic resonance imaging systems using head and body coils and performing proton imaging. Does not address the use of surface coils, chemical shift imaging, or spectroscopy.

[NEMA MS 3](#)

Acoustic Noise Measurement Procedure for Diagnostic Magnetic Resonance Imaging Device

Designed to measure worst-case sound levels a scanner may produce in clinical applications.

[NEMA MS 4](#)

Determination of Slice Thickness in Diagnostic Magnetic Resonance Imaging

Describes a method for determining the slice thickness of proton images. Does not address spectroscopy, chemical shift imaging, and warped slices.

[NEMA MS 5](#)

Characterization of Special Purpose Coils for Diagnostic Magnetic Resonance Images

Defines test methods for measuring signal-to-noise ratio and image non-uniformity of diagnostic magnetic resonance imaging systems using special purpose coils and performing proton imaging (receive only and transmit receive coils).

[NEMA MS 6](#)

Measurement Procedure for Time-Varying Gradient Fields (dB/dt) for Magnetic Resonance Imaging Systems

Describes measurements of the maximum possible time rate of change of gradient magnetic fields on an MR scanner during an exam. From these measurements it is possible to determine whether the system is likely to cause uncomfortable peripheral nerve stimulation in the patient, information that is vital to patient safety.

[NEMA MS 7](#)

Characterization of Phased Array Coils for Diagnostic Magnetic Resonance Images

Defines test methods for measuring the signal-to-noise ratio, image uniformity, and image non-uniformity of MR images produced using phased array coils.

[NEMA MS 9](#)

Performance Measurements of Scintillation Cameras

Provides a uniform criterion for the measurement and reporting of scintillation camera performance parameters for single and multiple crystal cameras and tomographic devices that image a section or reconstruction image volume, or both.

[NEMA NU 1](#)

Performance Measurements of Positron Emission Tomographs

Provides a uniform and consistent method for measuring and reporting performance parameters of positron emission tomographs. Included are time of flight and non time of flight coincidence systems, discrete and continuous detector designs, single and multiple slice devices, and multi-planar and volume reconstruction models.

[NEMA NU 2](#)

Digital Imaging and Communications in Medicine (DICOM)

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[NEMA PS 3 SET](#)

[NEMA PS 3 SET CD](#)

Digital Imaging and Communications in Medicine (DICOM)

Part 1: Introduction and Overview

Provides an overview of the entire Digital Imaging and Communications in Medicine (DICOM) Standard. It describes the history, scope, goals, and structure of the standard. In particular, it contains a brief description of the contents of each part of the standard.

[NEMA PS 3.1](#)

Digital Imaging and Communications in Medicine (DICOM)

Part 2: Conformance

Specifies the purpose and structure of a conformance statement. Describes general conformance requirements that must be met by any implementation claiming conformance to the DICOM Standard.

[NEMA PS 3.2](#)

Digital Imaging and Communications in Medicine (DICOM)

Part 3: Information Object Definitions

Provides an abstract definition of real world objects applicable to communication of digital medical information.

[NEMA PS 3.3](#)

Digital Imaging and Communications in Medicine (DICOM)

Part 4: Service Class Specifications

Specifies the set of service class definitions which provide an abstract definition of real world activities applicable to communication of digital medical information.

[NEMA PS 3.4](#)

Digital Imaging and Communications in Medicine (DICOM)

Part 5: Data Structures and Encoding

Specifies the structure and encoding of data sets.

[NEMA PS 3.5](#)

Digital Imaging and Communications in Medicine (DICOM)

Part 6: Data Dictionary

Contains the registry of all DICOM data elements and all DICOM unique identifiers that are defined within the DICOM Standard.

[NEMA PS 3.6](#)



Digital Imaging and Communications in Medicine (DICOM) Part 7: Message Exchange

Specifies the DICOM Message Service Element (DIMSE).
[NEMA PS 3.7](#)

Digital Imaging and Communications in Medicine (DICOM) Part 8: Network Communication Support for Message Exchange

Specifies the services and the upper layer protocols necessary to support the communication of DICOM Application Entities in a networked environment.
[NEMA PS 3.8](#)

Digital Imaging and Communications in Medicine (DICOM) Part 9: Point-to-Point Communication Support for Message Exchange

Specifies the services and protocols necessary to support the DICOM Application Entity over a point-to-point interface.
[NEMA PS 3.9](#)

Digital Imaging and Communications in Medicine (DICOM) Part 10: Media Storage and File Format for Media Interchange

Specifies a general model for the storage of medical imaging information on removable media. It provides a framework allowing the interchange of various types of medical images and related information on a broad range of physical media.
[NEMA PS 3.10](#)

Digital Imaging and Communications in Medicine (DICOM) Part 11: Media Storage Application Profiles

Specifies a general model for the storage of medical imaging information on removable media. It enables interoperability by specifying standard sets of elements from the various other parts of the DICOM Standard related to a specific clinical need.
[NEMA PS 3.11](#)

Digital Imaging and Communications in Medicine (DICOM) Part 12: Media Formats and Physical Media for Media Interchange

Facilitates the interchange of information between digital imaging computer systems in medical environments. This interchange enhances diagnostic imaging and potentially other clinical applications.
[NEMA PS 3.12](#)

Digital Imaging and Communications in Medicine (DICOM) Part 13: Print Management Point-to-Point Communication Support

Specifies the services and protocols necessary to support the communication of DICOM print management application entities over point-to-point links between print users and print providers.
[NEMA PS 3.13](#)

Digital Imaging and Communications in Medicine (DICOM) Part 14: Grayscale Standard Display Function

Specifies a standardized display function for the display of grayscale images. Display systems include, for example, monitors with associated driving electronics.
[NEMA PS 3.14](#)

Digital Imaging and Communications in Medicine (DICOM) Part 15: Security Profiles

Specifies Security Profiles to which implementations may claim conformance.
[NEMA PS 3.15](#)

Digital Imaging and Communications in Medicine (DICOM) Part 16: Content Mapping Resource

Specifies the DICOM Content Mapping Resource (DCMR) which defines the templates and context groups used elsewhere in the standard.
[NEMA PS 3.16](#)

Acoustic Output Measurement Standard for Diagnostic Ultrasound Equipment

Describes a set of measurement procedures for ultrasonic output parameters by setting forth definitions of quantities, primarily those relating to acoustic output levels, and specifying standard procedures for measuring the pertinent acoustic output parameters.
[NEMA UD 2](#)

Standard for Real Time Display of Thermal and Mechanical Acoustic Output Indices on Diagnostic Ultrasound Equipment

Enables users to monitor acoustic output display in "real time" during the course of the ultrasound examination. They are intended to provide information to clinical operators so patient exposure to ultrasound may be minimized, while maximizing diagnostic information and ease of use.
[NEMA UD 3](#)

Characteristics of and Test Procedures for a Phantom to Benchmark Cardiac Fluoroscopic and Fluorographic Performance

The performance of any medical imaging system can be divided into two categories: (1) suitability of the images for the clinical procedure, and (2) the amount of energy administered the patient while acquiring the images. The phantom and test procedures described test systems under conditions simulating a range of fluoroscopically guided invasive and interventional procedures.
[NEMA XR 21](#)

NCCLS

Laboratory Automation: Specimen Container/Specimen Carrier

[NCCLS AUTO1-A](#)

Laboratory Automation: Bar Codes for Specimen Container Identification

[NCCLS AUTO2-A](#)

Laboratory Automation: Communications with Automated Clinical Laboratory Systems, Instruments, Devices, and Information Systems

[NCCLS AUTO3-A](#)

Immunoprecipitin Analyses: Procedures for Evaluating the Performance of Materials

[NCCLS DI2-A2](#)

Procedures for the Collection of Arterial Blood Specimens

[NCCLS H11-A3](#)

Procedures for the Handling and Processing of Blood Specimens

[NCCLS H18-A2](#)

Performance Standards for Antimicrobial Disk Susceptibility Tests

[NCCLS M2-A7](#)



Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically

[NCCLS M7-A5](#)

Methods for Antimicrobial Susceptibility Testing of Anaerobic Bacteria

[NCCLS M11-A5](#)

Reference and Selected Procedure for the Erythrocyte Sedimentation Rate (ESR) Test

[NCCLS H2-A4](#)

The Institute of Electrical & Electronics Engineers, Inc. (IEEE)



Medical Device Communications Overview and Framework

This IEEE Standards product is part of the 1073 family on Medical Device Communications. An overall definition of the IEEE 1073 family of standards is provided, describing the interconnection and interoperation of medical devices with computerized healthcare information systems in a manner suitable for the clinical environment.

[IEEE 1073](#)

Medical Device Communications - Transport Profile - Connection Mode

This IEEE Standards product is part of the 1073 family on Medical Device Communications. A local area network (LAN) for the interconnection of computers and medical devices is defined by the specifications and guidelines set forth in this standard. The functions, features, and protocols of the intra-room communications subnet of a bedside communications network known as the Medical Information Bus (MIB) are defined. This communications subnet is the functional equivalent for the MIB of the Transport, Network, Data Link, and Physical layers of the Organization for International Standards (ISO) Reference Model for Open Systems Interconnection (OSI). This standard defines the services and protocols for the MIB Transport, Network, and Data Link layers.

[IEEE 1073.3.1](#)

Standard for Medical Device Communications - Transport Profile - Connection Mode - Amendment 1: Corrections and Clarifications

This IEEE Standards product is part of the 1073 family on Medical Device Communications. This amendment sets forth a number of clarifications and corrections to IEEE Standard for Medical Device Communications - Transport Profile - Connection Mode.

[IEEE 1073.3.1A](#)

Medical Device Communications - Transport Profile - IrDA Based - Cable Connected

This IEEE Standards product is part of the 1073 family on Medical Device Communications. A connection-oriented transport profile and physical layer suitable for medical device communications in legacy devices is established. Communications services and protocols consistent with specifications of the Infrared Data Association are defined. These communication services and protocols are optimized for use in patient-connected bedside medical devices.

[IEEE 1073.3.2](#)

Medical Device Communications - Physical Layer Interface - Cable Connected

This IEEE Standards product is part of the 1073 family on Medical Device Communications. A physical interface for the interconnection of computers and medical devices in the IEEE 1073 family of standards is defined. This interface is intended to be highly robust in an environment where devices are frequently connected to and disconnected from the network. The physical and electrical characteristics of the connector and signals necessary to exchange digital information between cable-connected medical devices and host computer systems are specified.

[IEEE 1073.4.1](#)

Underwriters Laboratories, Inc. (UL)

Standard for Safety of Photographic Equipment

[UL 122](#)

Medical and Dental Equipment

[UL 544](#)

Medical Electrical Equipment - Part 1: General Requirements for Safety

[UL 2601-1](#)

Electrical Equipment for Laboratory Use - Part 2: Particular Requirements for Autoclaves Using Steam for the Treatment of Medical Materials and for Laboratory Processes

[UL 61010A-2-041](#)

Electrical Equipment for Laboratory Use - Part 2: Particular Requirements for Autoclaves and Sterilizers Using Toxic Gas for the Treatment of Medical Materials and for Laboratory Processes

[UL 61010A-2-042](#)



American Water Works Association (AWWA)

Standard for Steel Water Pipe - 6 In. (150 mm) and Larger
[AWWA C200](#)

Coal-Tar Protective Coatings and Linings for Steel Water Pipelines - Enamel and Tape - Hot Applied
[AWWA C203](#)

Dimensions for Fabricated Steel Water Pipe Fittings
[AWWA C208](#)

Steel Pipe - A Guide for Design and Installation
[AWWA M11](#)

American Welding Society (AWS)

Standard Welding Terms and Definitions; Including Terms for Adhesive Bonding, Brazing, Soldering, Thermal Cutting, and Thermal Spraying

Terms you will not find in your regular dictionary. "Adequate definition requires there be only one clearly applicable definition. The definition must accurately reflect the term's use in the welding world." Industry correct and nonstandard terms are both included in this 128-page compilation of over 1,200 definitions.

[AWS A3.0](#)

Standard Symbols for Welding, Brazing, and Nondestructive Examination

As a "language," these symbols are the precise means for designers and detailers to place welding, brazing, and nondestructive examination information on drawings and the most error-free means for welding personnel to adhere to original plans.

[AWS A2.4](#)

American Welding Society (AWS)



Standard Symbols for Welding, Brazing, and Nondestructive Examination

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[AWS A3.0](#)

Specification for Nickel and Nickel Alloy Welding Electrodes for Shielded Metal Arc Welding

[AWS A5.11/A5.11M](#)

Specifications for Tungsten and Tungsten Alloy Electrodes for Arc Welding and Cutting

[AWS A5.12/A5.12M](#)

Specification for Carbon and Low Alloy Steel Electrodes and Fluxes for Electroslag Welding

[AWS A5.25/A5.25M](#)

Structural Welding Code - Steel

The world's best reference for structural steel welding. New material includes both U.S. and metric measurements; new section on responsibilities of personnel; revised design of welded connections; limits of fillet weld length; definition of T-joints, and fatigue limits of weld and joint types; new data on through-thickness base metal loading; clarification on matching filler metals to construction materials; and guidelines for Charpy V-notch testing, and commentary on ultrasonic testing. Engineers, architects and fabricators depend on this book to ensure integrity of welded steel structures. ANSI approved, Dept. of Defense adopted.

[AWS D1.1/D1.1M](#)

Structural Welding Code - Aluminum

This code set the rules and regulations necessary for welding structural aluminum using the gas metal arc, gas tungsten arc, and plasma arc welding processes, as well as stud welding and plasma arc gouging, in dynamically loaded or statically loaded nontubular structures as well as tubular structures. Developed under strict American National Standards Institute rules, Structural Welding Code. Aluminum includes sections on Fabrication, Qualification of WPSs, and Personnel and Inspection.

[AWS D1.2](#)

Structural Welding Code - Sheet Steel

One of the primary objectives of this code is to define the allowable capacities used in sheet steel applications in which the transfer of calculated load occurs. If you are responsible for the welding of steel decks, panels, storage racks, and stud and joist framing members, to name a few applications; this code helps you to effect consistently sound welding of joints. Includes allowable load capacities, details of welded connections, pre-qualification of WPSs, qualification, inspection, and stud welding. Seven tables, 44 figures, 5 Annexes, and commentary.

[AWS D1.3](#)

ASM International (ASM)



Stahlschlüssel (Key to Steel)

19th Edition

[ASM KEY TO STEEL](#)

ASM Metals Reference Book

[ASM METALS REFERENCE BOOK](#)

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Abstracts taken from information provided by vendor.



ASM Metals Handbook, Desk Edition

[ASM METALS HDBK DESK](#)

Worldwide Guide to Equivalent Irons and Steels

[ASM WWDG IRONS & STEELS](#)

Worldwide Guide to Equivalent Nonferrous Metals and Alloys

Fourth Edition

[ASM WWDG NONFERROUS](#)

ASTM International (ASTM)

Annual Book of ASTM Standards - Complete Set

77 Volume Set

[ASTM SET](#)

ASTM International (ASTM)



Metals and Alloys in the Unified Numbering System (UNS)

The UNS 9th Edition contains more than 4,600 Metals and Alloy Designations - including 500 New and Revised since the 1993 edition. UNS designations include a description of the material, its chemical composition, and applicable cross-reference specifications from societies, trade associations, and government. Each UNS designation consists of a single-letter prefix followed by five digits (for example S17400).

[ASTM DS 56](#)

[ASTM DS 56 CD](#)

Developed jointly by American Society for Testing and Materials (ASTM) and SAE International (SAE).

Handbook of Comparative World Steel Standards

This helpful handbook lets you compare steel standards from several countries at a glance, including ANSI, ASTM, AS, API, BSI, CSA, DIN, JIS, and ISO. Each standard lists country, standard number and year, grade, chemical composition, and mechanical properties. Includes CD-ROM. Second Edition.

[ASTM DS 67](#)

ASTM Book of Standards

Annual Book of ASTM Standards - Complete Set

Please see page 7 for a complete description.

[ASTM SET](#)

Section 1- Iron and Steel Products

[ASTM SECTION 1](#)

Section 2- Nonferrous Metal Products

[ASTM SECTION 2](#)

Section 3- Metals Test Methods and Analytical Procedures

[ASTM SECTION 3](#)

Listed below are some of the most popular individual ASTM standards found in Sections 1, 2 & 3.

Standard Specification for Carbon Structural Steel

[ASTM A 36/A 36M](#)

Standard Specification for Alloy-Steel and Stainless Steel Bolting Materials for High-Temperature Service

[ASTM A 193/A 193M](#)

Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

[ASTM A 240/A 240M](#)

Standard Specification for Stainless Steel Bars and Shapes

[ASTM A 276](#)

Standard Test Methods and Definitions for Mechanical Testing of Steel Products

[ASTM A 370](#)

Standard Specification for Chemical Passivation Treatments for Stainless Steel Parts

[ASTM A 967](#)

Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel

[ASTM B 633](#)

Standard Test Methods for Rockwell Hardness and Rockwell Superficial Hardness of Metallic Materials

[ASTM E 18](#)

Standard Hardness Conversion Tables for Metals Relationship Among Brinell Hardness, Vickers Hardness, Rockwell Hardness, Superficial Hardness, Knoop Hardness, and Scleroscope Hardness

[ASTM E 140](#)

Practice for Liquid Penetrant Examination

[ASTM E 1417](#)

British Standards Institution (BSI)



Specification for Wrought Steels for Mechanical and Allied Engineering Purposes Part 1. General Inspection and Testing Procedures and Specific Requirements for Carbon Manganese, Alloy and Stainless Steels

[BS 970 P1](#)

Copper and Copper Alloys - Ingots and Castings

[BS EN 1982](#)

Metallic Materials - Tensile Testing - Part 1. Method of Test at Ambient Temperature

[BS EN 10002-1](#)

Stainless Steels - Part 1. List of Stainless Steels

[BS EN 10088-1](#)

Metallic Products - Types of Inspection Documents

[BS EN 10204](#)

Technical Delivery Conditions for Steel Castings for Pressure Purposes - Part 2. Steel Grades for use at Room Temperature and at Elevated Temperature

[BS EN 10213-2](#)

PRIORITY CODE H56

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Abstracts taken from information provided by vendor.



Deutsches Institut für Normung, e.V. (DIN)



Seamless Precision Steel Tubes: Dimensions
[DIN 2391 P1](#)

Technical Delivery Conditions for Stainless Steel Plate, Hot Rolled Strip, and Bars for Pressure Purposes, Drawn Wire and Forgings
[DIN 17440](#)

Electroplated Coatings; Zinc and Cadmium Coatings on Iron and Steel Chromate Treatment of Zinc and Cadmium Coatings
[DIN 50961](#)

Founding - Spheroidal Graphite Cast Iron
[DIN EN 1563](#)

Aluminium and Aluminium Alloys - Castings - Chemical Composition and Mechanical Properties
[DIN EN 1706](#)

Inspection Documents for Metallic Products
[DIN EN 10204](#)

Iron and Steel - Dimensional Standards
[DIN HDBK 28](#)

International Organization for Standardization (ISO)



Metallic Materials - Vickers Hardness Test - Part 1: Test Method
[ISO 6507-1](#)

Metallic Materials - Rockwell Hardness Test - Part 1: Test Method (Scales A, B, C, D, E, F, G, H, K, N, T)
[ISO 6508-1](#)

Metallic Materials - Rockwell Hardness Test - Part 2: Verification and Calibration of Testing Machines (Scales A, B, C, D, E, F, G, H, K, N, T)
[ISO 6508-2](#)

Metallic Materials - Tensile Testing
[ISO 6892](#)

Steel and Steel Products - Inspection Documents
[ISO 10474](#)

Japanese Standards Association (JSA)

Ferrous Materials and Metallurgy Handbook - Volume 1
Provides test methods common to metallic materials, general rules for inspection and test methods of steel, and alloy steel for machine structural use, and steel for special purposes.
[JIS FERROUS 1](#)

Ferrous Materials and Metallurgy Handbook - Volume 2
Includes standards for steel bars, sections, plates, sheets and strip, steel tubular products, wire rods, and their secondary products.
[JIS FERROUS 2](#)

Japanese Standards Association (JSA)

JIS Metal Materials Data Handbook
[JIS METALS DATA BOOK](#)

Ferrous Materials and Metallurgy Handbook - Volume 1
Provides test methods common to metallic materials, general rules for inspection and test methods of steel, and alloy steel for machine structural use, and steel for special purposes.
[JIS FERROUS 1](#)

Ferrous Materials and Metallurgy Handbook - Volume 2
Includes standards for steel bars, sections, plates, sheets and strip, steel tubular products, wire rods, and their secondary products.
[JIS FERROUS 2](#)

JIS Non-Ferrous Metals and Metallurgy Handbook
Provides a glossary of terms, test methods of non-ferrous metals and metallurgy, raw materials, wrought copper, aluminum and aluminum alloy, other metal than copper and aluminum and its alloy, functional materials, powder metallurgy, casting, secondary products and miscellaneous materials for electric use, and miscellaneous references.
[JIS NON FERROUS](#)

Military Specifications and Standards

Anodic Coatings, for Aluminum and Aluminum Alloys
[MIL-A-8625](#)

Chemical Conversion Coatings on Aluminum and Aluminum Alloys
[MIL-C-5541](#)

Coating, Oxide, Black, for Ferrous Metal
[MIL-DTL-13924](#)

Finishing of Metal and Wood Surfaces
[MIL-STD-171](#)



SAE International (SAE)



Inspection Material, Penetrant

[SAE AMS 2644](#)

Steel, Corrosion and Heat Resistant, Sheet, Strip, and Plate 15CR - 25.5NI - 1.2MO - 2.1TI - 0.006B - 0.30V 1800 Degrees F (982 Degrees C) Solution Heat Treated

[SAE AMS 5525](#)

Steel, Corrosion-Resistant, Bars, Wire, Forgings, Rings, and Extrusions 13CR - 8.0NI - 2.2MO - 1.1AL Vacuum Induction Plus Consumable Electrode Melted Solution Heat Treated, Precipitation Hardenable

[SAE AMS 5629](#)

Steel, Corrosion and Heat-Resistant, Bars, Wire, Forgings, and Tubing 15CR - 25.5NI - 1.2MO - 2.1TI - 0.006B - 0.30V Consumable Electrode Melted 1650 Degrees F (899 Degrees C) Solution and Precipitation Heat Treated

[SAE AMS 5737](#)

Anodic Coatings for Aluminum and Aluminum Alloys

[SAE AMS-A-8625](#)

Heat Treatment of Steel, Process for

[SAE AMS-H-6875](#)

Passivation Treatments for Corrosion-Resistant Steel

[SAE AMS-QQ-P-35](#)

Plating, Cadmium (Electrodeposited)

[SAE AMS-QQ-P-416](#)

The Aluminum Association (AA)



Aluminum Design Manual: Specifications and Guidelines for Aluminum Structures

For those who work with aluminium structural applications, this update-to-date resource includes: Specification and Commentary on Allowable Stress Design, Load and Resistance Factor Design for Aluminum Structures, Design Guide, Materials, Material Properties, Section Properties, Design Aids, Illustrative Design Examples, and Guidelines for Aluminum Sheet Metal Work in Building Construction.

[AA ADM1](#)

Aluminum Standards and Data

Aluminum Standards and Data contains information and data on: nominal and specified chemical compositions of alloys; mechanical and physical properties of commercial alloys; mechanical property limits; information on comparative corrosion performance; and dimensional tolerances for semi-fabricated products. Improvements to this edition include: modified tolerance tables with "how to" descriptions to simplify interpretations of tables; improved and simplified text; and footnotes.

[AA ASD1](#)

Aluminum Standards and Data - Metric

[AA ASD1M](#)

Alloy and Temper Designation Systems for Aluminum

Covers systems for designation wrought aluminum and wrought aluminum alloys, aluminum and aluminum alloys in the castings and foundry ingot and the tempers in which wrought products and castings are produced.

[ANSI H35.1](#)

Alloy and Temper Designation Systems for Aluminum (Metric)

[ANSI H35.1M](#)

Dimensional Tolerances for Aluminum Mill Products

Includes dimension tolerances for aluminum mill products accepted by both the aluminum industry and users of the metal. They are the basis of dimensional tolerance specified in government, technical societies, and other specifications for aluminum.

[ANSI H35.2](#)

Dimensional Tolerances for Aluminum Mill Products (Metric)

[ANSI H35.2M](#)

Occupational Health & Safety



American National Standards Institute (ANSI)



Walk-Behind Mowers and Ride-On Machines with Mowers - Safety Requirements

[ANSI B71.1](#)

Commercial Turf Care Equipment - Safety Specifications

[ANSI B71.4](#)

Prescription Ophthalmic Lenses Recommendations

[ANSI Z80.1](#)

Respiratory Protection

[ANSI Z88.2](#)

Safety Glazing Materials Used in Buildings Safety

[ANSI Z97.1](#)

Hazardous Industrial Chemicals Precautionary Labeling

[ANSI Z129.1](#)

Hazardous Industrial Chemicals - Material Safety Data Sheets - Preparation

[ANSI Z400.1](#)

American Society of Safety Engineers (ASSE)

Occupational and Educational Eye and Face Protection

[ANSI Z87.1](#)

American Society of Safety Engineers (ASSE)



Safety Requirements for Workplace Floor and Wall Openings, Stairs and Railing Systems

[ANSI A1264.1](#)

Standard for Provision of Slip Resistance on Walking and Working Surfaces

[ANSI A1264.2](#)

Occupational and Educational Eye and Face Protection

[ANSI Z87.1](#)

Safety Requirements for Confined Spaces

[ANSI Z117.1](#)

Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components

[ANSI Z359.1](#)

Accepted Practices for Hydrogen Sulfide Safety Training Programs

[ANSI Z390.1](#)

Criteria for Accepted Practices in Safety, Health, and Environmental Training

[ANSI Z490.1](#)

Occupational and Educational Eye and Face Protection

[ANSI Z87.1](#)

ASME International (ASME)



Safety Standard for Low Lift & High Lift Trucks

[ASME B56.1](#)

Safety Standard for Platform Lifts and Stairway Chairlifts Fittings

[ASME A18.1](#)

British Standards Institution (BSI)



Occupational Health and Safety Management Systems

[BS 8800](#)

Occupational Health and Safety Management Systems - Specification

[BS OHSAS 18001](#)

Occupational Health and Safety Management Systems - Guidelines for the Implementation of OHSAS 18001

[BS OHSAS 18002](#)

Safety of Machinery - Principles for Risk Assessment

[BS EN 1050](#)

Safety of Machinery - Electrical Equipment of Machines - Part 1: Specification for General Requirements

[BS EN 60204-1](#)

Medical Electrical Equipment - Part 1: General Requirements for Safety

[BS EN 60601-1](#)

Safety of Laser Products - Part 1: Equipment Classification, Requirements and User's Guide

[BS EN 60825-1](#)

Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements

[BS EN 61010-1](#)

International Organization for Standardization (ISO)

Part 1: Classification of Air Cleanliness

[ISO 14644-1](#)

Occupational Health & Safety



International Organization for Standardization (ISO)



Part 1: Classification of Air Cleanliness

[ISO 14644-1](#)

Part 2: Specifications for Testing and Monitoring to Prove Continued Compliance with ISO 14644-1

[ISO 14644-2](#)

Part 4: Design, Construction and Start-Up

[ISO 14644-4](#)

Laser Institute of America (LIA)

Lasers, Safe Use of

[ANSI Z136.1](#)

Laser Institute of America (LIA)

Lasers, Safe Use of

[ANSI Z136.1](#)

Safe Use of Optical Fiber Communications Systems Utilizing Laser Diode and LED Sources

[ANSI Z136.2](#)

Safe Use of Lasers in Health Care Facilities

[ANSI Z136.3](#)

American National Standard for Safe Use of Lasers in Educational Institutions

[ANSI Z136.5](#)

Safe Use of Lasers Outdoors

[ANSI Z136.6](#)

National Fire Protection Association (NFPA)

Life Safety Code

[NFPA 101](#)

National Fire Protection Association (NFPA)



Standard for Portable Fire Extinguishers

[NFPA 10](#)

Carbon Dioxide Extinguishing Systems

[NFPA 12](#)

Recommended Practice for Electrical Equipment Maintenance

[NFPA 70B](#)

Electric Safety Requirements for Employee Workplaces

[NFPA 70E](#)

Static Electricity

[NFPA 77](#)

Electrical Standard for Industrial Machinery

[NFPA 79](#)

Life Safety Code

[NFPA 101](#)

Alternative Approaches to Life Safety

[NFPA 101A](#)

Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire

[NFPA 2112](#)

Selection, Care, Use and Maintenance of Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire

[NFPA 2113](#)

National Safety Council (NSC)

Personal Protection - Protective Footwear

[ANSI Z41](#)

National Safety Council (NSC)

Safety Requirements for Material Hoists - Construction and Demolition Operations

[ANSI A10.5](#)

Occupational Health & Safety



Safety Requirements for Scaffolding

[ANSI A10.8](#)

Construction and Demolition Operations - Requirements for Safety Belts, Harnesses, Lanyards and Lifelines for Construction and Demolition Use

[ANSI A10.14](#)

Information Management for Occupational Safety and Health

[ANSI Z16.2](#)

Personal Protection - Protective Footwear

[ANSI Z41](#)



American Petroleum Institute (API)



Global Engineering Documents®, is the primary worldwide distributor of API Standards and Publications. API has developed equipment and operating standards used around the world and covers everything from drilling equipment to environmental protection. Federal and state laws and regulations have long referenced API standards.

Joint Association Survey on Drilling Costs

This annual report is the only long-term source of information on detailed U.S. drilling expenditures. The survey, conducted since 1959, presents information on wells, footage, and related expenditures for each active drilling area. Data for oil wells, gas wells, and dry holes are reported separately and the information is further desegregated by depth interval for each state and area. Similar summary tables are provided for the offshore and onshore areas. Also included in the report are sections on drilling expenditures for exploratory and development wells, horizontal wells, and coal-bed methane gas wells. A comparison of the impact of price change on the drilling costs is also included.

[API JOINT ASSOCIATION](#)

Manual of Petroleum Measurement Standards - Complete Set (Excluding Chapters 11 and 19, these chapters are only available individually)

The Institute currently maintains a comprehensive API Manual of Petroleum Measurement Standards. This manual is an ongoing project, as new chapters and revisions of old chapters will be released periodically. Publications regarding measurement of evaporative loss are now listed under Chapter 19 of the Manual of Petroleum Measurement Standards. The price of the complete set is subject to change as new chapters and subchapters are released; an order for one complete set would not include the chapters published after the release date of this catalog (but prior to order receipt), and the binders. NOTE: Chapter 11 and Chapter 19 standards must be ordered separately.

[API MPMS SET](#)

Welding of Pipelines and Related Facilities

Covers gas and arc welding for the production of high-quality welds in carbon and low-alloy steel piping used in the compression, pumping, and transmission of crude petroleum, petroleum products, and fuel gases where applicable to distribution systems.

[API STD 1104](#)

Welded Steel Tanks for Oil Storage

Covers material, design, fabrication, erection, and testing requirements for vertical, cylindrical, aboveground, closed- and open-top, welded steel storage tanks in various sizes and capacities for internal pressures approximating atmospheric pressure (internal pressures not exceeding the weight of the roof plates), but a higher internal pressure is permitted when additional requirements are met. This standard applies only to tanks whose entire bottom is uniformly supported and to tanks in non-refrigerated service that have a maximum operating temperature of 200°F.

[API STD 650](#)

Tank Inspection, Repair, Alteration & Reconstruction

Covers the inspection, repair, alteration and reconstruction of steel aboveground storage tanks used in the petroleum and chemical industries. Provides the minimum requirements for maintaining the integrity of welded or riveted, nonrefrigerated, atmospheric pressure, aboveground storage tanks after they have been placed in service.

[API STD 653](#)

Specification for Casing & Tubing

Covers seamless and welded casing and tubing, couplings, pup joints, and connectors in all grades in U.S. customary units. Process of manufacture; chemical and mechanical property requirements; methods of testing; and dimensions are included.

[API SPEC 5CT](#)

Fitness-For-Service

Describes standardized fitness-for-service assessment techniques for pressurized equipment used in the petrochemical industry. Fitness-for-service is defined as the ability to demonstrate the structural integrity of an in-service component containing a flaw. This publication is intended to supplement the requirements in API 510, 570, and 653 by: (1) ensuring safety of plant personnel and the public while older equipment continues to operate; (2) providing technically sound fitness-for-service assessment procedures to ensure that different service providers furnish consistent life predictions; and (3) helping optimize maintenance and operation of existing facilities to maintain the availability of older plants and enhance their long-term economic viability. The assessment procedures in this publication can be used for fitness-for-service evaluation and operating of pressure vessels designed and constructed to the ASME Boiler and Pressure Vessel Code; piping systems designed and constructed to the ASME B31.3 Piping Code; and aboveground storage tanks designed and constructed to API 650 and 620. The assessment procedures cover the present integrity of pressure containing equipment given a current state of damage and the projected remaining life. This publication can also be applied to pressure containing equipment constructed to other recognized codes and standards as defined in this publication. States that reference or have adopted API Codes 510, 570, and 653 are noted.

[API RP 579](#)

Base Resource Document On Risk-Based Inspection

API has researched and developed an approach to risk-based inspection (RBI). This document details the procedures and methodology of RBI. RBI is an integrated methodology that uses risk as a basis for prioritizing and managing an in-service equipment inspection program by combining both the likelihood of failure and the consequence of failure. Utilizing the output of the RBI, the user can design an inspection program that manages or maintains the risk of equipment failures. The following are three major goals of the RBI program: (1) provide the capability to define and quantify the risk of process equipment failure, creating an effective tool for managing many of the important elements of a process plant; (2) allow management to review safety, environmental, and business-interruption risks in an integrated, cost-effective manner; and (3) systematically reduce the likelihood and consequence of failure by allocating inspection resources to high-risk equipment. The RBI methodology provides the basis for managing risk, by making informed decisions on the inspection method, coverage required and frequency of inspections. In most plants, a large percent of the total unit risk will be concentrated in a relatively small percent of the equipment items. These potential high-risk components may require greater attention, perhaps through a revised inspection plan. With an RBI program in place, inspections will continue to be conducted as defined in existing working documents, but priorities and frequencies will be guided by the RBI procedure. The RBI analysis looks not only at inspection, equipment design, and maintenance records, but also at numerous process safety management issues and all other significant issues that can affect the overall mechanical integrity and safety of a process unit.

[API PUBL 581](#)



Design & Construction of Large, Welded, Low - Pressure Storage Tanks

Covers the design and construction of large, welded, low-pressure carbon steel aboveground storage tanks (including flat-bottom tanks) that have a single vertical axis of revolution. The tanks described are designed for metal temperatures not greater than 250°F and with pressures in their gas or vapor spaces not more than 15 psig.

[API STD 620](#)

Specification for Line Pipe

Provides standards for pipe suitable for use in conveying gas, water and oil in both the oil and natural gas industries. Covers seamless and welded steel line pipe, including standard-weight and extra-strong threaded line pipe; and standard-weight plain-end, regular-weight plain-end, special plain-end, extra-strong plain-end, and double-extra-strong plain-end pipe; as well as bell and spigot and through-flowing (TFL) pipe.

[API SPEC 5L](#)

Specification for Wellhead & Christmas Tree Equipment

Wellhead and Christmas Tree Equipment covers equipment utilized for pressure control systems for production of oil and gas. Specific equipment covered by this specification includes end and outlet connectors; ring gaskets; chokes; valves including surface and under water safety valves; actuators; and wellhead and Christmas Tree equipment.

[API SPEC 6A](#)

Specification for Rotary Drill Stem Elements

Covers dimensional requirements on drill stem members (except drill pipe), including threaded connections, gauging practice, and master gauges.

[API SPEC 7](#)

Recommended Practice for Analysis, Design, Installation & Testing of Basic Surface Safety Systems for Offshore Production Platforms

Presents a standardized method to design, install, and test surface safety systems on offshore production platforms.

[API RP 14C](#)

Classification of Locations for Electrical Installation at Petroleum Facilities Classified as Class I, Division 1 & Division 2

Provides guidelines for determining the degree and extent of Class I, Division 1 and Class I, Division 2 locations at petroleum facilities, for the selection and installation of electrical equipment.

[API RP 500](#)

Managing System Integrity for Hazardous Liquid Pipelines

Outlines a process that an operator of a pipeline system can use to assess risks and make decisions about risks in operating a hazardous liquid pipeline in order to reduce both the number of incidents and the adverse effects of errors and incidents.

[API STD 1160](#)

Recommended Practice for Planning, Designing & Constructing Fixed Offshore Platforms - Load & Resistance Factor Design

This standard contains engineering design principles and practices using LRFD design criteria for development of offshore oil resources. The LRFD provisions have been developed from the WSD provisions using reliability-based calibration. Contains the full text of ISO 13819, Part 2.

[API RP 2A-LRFD](#)

Planning, Designing & Constructing Fixed Offshore Platforms - Working Stress Design

Contains engineering design principles and practices that have evolved during the development of offshore oil resources. Metric conversions of customary English units are provided throughout the text and are shown in parentheses.

[API RP 2A-WSD](#)

Operation and Maintenance of Offshore Cranes

This standard covers recommendations for developing safe operating practices and procedures compatible with operation of pedestal-mounted revolving cranes used offshore on bottom-supported platforms, floating drilling tenders, semi-submersible rigs, and other types of floating drilling equipment.

[API RP 2D](#)

Threading, Gauging & Thread Inspection of Casing Tubing, and Line Pipe Threads

This standard covers dimensions and marking requirements for API master thread gauges. Additional product threads and thread gauges, as well as instruments and methods for the inspection of threads for line pipe, round thread casing, buttress casing, and extreme-line casing connections are included.

[API SPEC 5B](#)

Drill Pipe

API Spec 5D covers Groups 1 and 3 drill pipe; specifically, those in certain designations and wall thicknesses.

[API SPEC 5D](#)

Pipeline Valves

Pipeline Valves covers flanged and butt-welding gate, plug, ball, and check valves. This specification clarifies the types, categories and bore sizes of valves covered; adjusts test and marking requirements accordingly; simplifies the dimensional table for gate valves; adds metric conversions of all dimensional tables; and includes other clarifications and updates.

[API SPEC 6D](#)

Drill Stem Design and Operating Limits

Includes recommendations for the design and selection of drill string members and include considerations of hole angle control, drilling fluids, weight, and rotary speed.

[API RP 7G](#)

Design and Installation of Offshore Production Platform Piping Systems

This standard recommends minimum requirements and guidelines for the design and installation of new piping systems on offshore production platforms. Includes general recommendations on design and application of pipe, valves, and fittings for typical processes; general information on installation, quality control, and items related to piping systems such as insulation; and specific recommendations for the design of particular piping systems.

[API RP 14E](#)

Design and Installation of Electrical Systems for Fixed and Floating Offshore Petroleum Facilities for Unclassified and Class I, Division 1 and Division 2 Locations

This standard recommends minimum requirements for design and installation of electrical systems for offshore production platforms. Includes recommendations on electrical equipment for classified areas, power generating stations, distribution systems, motors, transformers, lighting, DC power systems, and recommendations on systems checkout.

[API RP 14F](#)



Blowout Prevention Equipment Systems for Drilling Wells

This standard provides information that can serve as a guide for installation and testing of blowout prevention equipment systems on land and marine drilling rigs (barge, platform, bottom-supported, and floating).

[API RP 53](#)

Pressure Vessel Inspection Code: Maintenance Inspection, Rating, Repair & Alteration

Covers the maintenance inspection, repair, alteration, and rating procedures for pressure vessels used by the petroleum and chemical process industries. Applies to vessels that have been placed in service and have been inspected by an authorized inspection agency or repaired by a repair organization.

[API 510](#)

Part I - Sizing and Selection

Applies to the sizing and selection of pressure relief devices for equipment that has a maximum allowable working pressure (MAWP) of 15 psig (103 kPag) or greater.

[API RP 520 P1](#)

Part II - Installation

Please see page 21 for a complete description.

[API RP 520 P2](#)

Guide for Pressure - Relieving & Depressuring Systems

A guide for plant engineers in the design, installation, and operation of pressure-relieving and depressuring systems.

[API RP 521](#)

Fired Heaters for General Refinery Services

Applies to fired heaters for general refinery services. It covers the minimum requirements for their design, materials, fabrication, inspection, testing, preparation for shipment, and erection.

[API STD 560](#)

Piping Inspection Code: Inspection, Repair, Alteration, & Rerating of In-Service Piping Systems

Covers inspection, repair alterations, and rerating procedures for in-service metallic piping systems. Establishes requirements and guidelines that allow owner/users of piping systems to maintain the safety and mechanical integrity of systems after they have been placed into service.

[API 570](#)

Inspection of Pressure Vessels (Towers, Drums, Reactors, Heat Exchangers, & Condensers)

Covers the inspection of pressure vessels. It includes a description of the various types of pressure vessels and the standards that can be used for their construction and maintenance. The reasons for inspection, the causes of deterioration, the frequency and methods of inspection, the methods of repair, and the preparation of records and reports are also covered. Safe operation is emphasized.

[API RP 572](#)

Inspection Practices for Piping System Components

This standard covers inspection practices for piping, tubing, valves (not including control valves), and fittings used in petroleum refineries and chemical plants. Although not specifically intended to cover speciality items, many of the inspection methods described are applicable to items such as control valves, level gages, and instrument control columns.

[API RP 574](#)

Inspection of Atmospheric and Low-Pressure Storage Tanks

This standard covers the maintenance, inspection, repair, alteration, and operating procedures for pressure vessels used by the petroleum and chemical process industries. Applies to vessels that have been placed in service and covers the inspection of atmospheric and low-pressure storage tanks that are designed to operate at pressures from atmospheric to 15 psig. Includes reasons for inspection, frequency and methods of inspection, methods of repair, and preparation of records and reports. This recommended practice is intended to supplement API Standard 653, which covers the minimum requirements for maintaining the integrity of storage tanks after they have been placed in service.

[API RP 575](#)

Inspection of Pressure Relieving Devices

This standard describes automatic pressure-relieving devices commonly used in the oil and petrochemical industries. As a guide to the inspection and control of these devices in the user's plant, it is intended to ensure their proper performance. Covers such automatic devices as spring-loaded pressure relief valves, pilot-operated valves, and rupture disks.

[API RP 576](#)

Steel Gate Valves - Flanged & Butt-Welding Ends, Bolted & Pressure Seal Bonnets

This standard is for the convenience of purchasers and manufacturers who order, fabricate, or install steel gate valves. Covering steel gate valves with flanged or butt-welding ends in sizes NPS1 through NPS 24.

[API STD 600](#)

Centrifugal Pumps for General Refinery Services

Including the minimum requirements for centrifugal pumps, covering pumps running in reverse as hydraulic power recovery turbines, for use in petroleum, heavy-duty chemicals, and gas industry services. The pump types covered by this standard can be broadly classified as overhung, between bearings, and vertically suspended.

[API STD 610](#)

Lubrication, Shaft-Sealing, and Control-Oil Systems and Auxiliaries for Petroleum, Chemical, and Gas Industry Services

This standard covers the minimum requirements for special-purpose and general-purpose lubrication systems, oil-type, and dry gas seal shaft-sealing support systems. Such systems may serve compressors, gears, pumps, and drivers. The standard includes the systems' components, along with the required controls and instrumentation. Data sheets and typical schematics of both system components and complete systems are also provided. Chapters include General Requirements, Special Purpose Oil Systems, General Purpose Oil Systems, and Dry Gas Seal Module Systems.

[API STD 614](#)

Axial and Centrifugal Compressors and Expander - Compressors for Petroleum, Chemical and Gas Industry Services

This standard covers the minimum requirements for centrifugal compressors used in petroleum, chemical, and gas industry services that handle air or gas. Does not apply to fans or blowers that develop less than 34 kPa (5 pounds per square inch) pressure rise above atmospheric pressure; these are covered by API Standard 673. This standard also does not apply to packaged, integrally-gear centrifugal air compressors, which are covered by API Standard 672.

[API STD 617](#)



Air-Cooled Heat Exchangers for General Refinery Services

This standard provides a purchase specification for purchasers and vendors of air-cooled heat exchangers for use in refinery service. It requires the purchaser to specify certain details and features covering the minimum requirements for design, materials, fabrication, inspection, testing, and preparation for shipment of refinery process air-cooled heat exchangers. These requirements are specifically for the forced or induced type of heat exchangers.

[API STD 661](#)

Machinery Protection Systems

Provides a purchase specification to facilitate the manufacture, procurement, installation, and testing of vibration, axial position, and bearing temperature monitoring systems for petroleum, chemical, and gas industry services. Covers the minimum requirements for monitoring radial shaft vibration, casing vibration, shaft axial position, and bearing temperatures. It outlines a standardized monitoring system and covers requirements for hardware (sensors and instruments), installation, testing, and arrangement.

[API STD 670](#)

Pumps - Shaft Sealing Systems for Centrifugal and Rotary Pumps

Establishes the minimum electromechanical requirements for sealing systems for centrifugal and rotary pumps with seal sizes from 30 millimeters to 120 millimeters (1.5 inches to 4.5 inches). It also provides a standard seal design that has been tested and qualified under the service conditions for which it is intended to operate. In addition, this standard encourages evolving technology through qualification testing, data sheet input, and for engineered seals.

[API STD 682](#)

Rotor Repair

This recommended practice covers the minimum requirements for the inspection and repair of special purpose rotating equipment rotors, bearings, and couplings used in petroleum, chemical, and gas industry service.

[API RP 687](#)

Venting Atmospheric & Low-Pressure Storage Tanks - Nonrefrigerated and Refrigerated

This standard covers the normal and emergency vapor venting requirements for aboveground liquid petroleum or petroleum products storage tanks, and aboveground and underground refrigerated storage tanks designed for operating at pressures from vacuum through 15 pounds per square inch gauge (1.034 bar gauge).

[API STD 2000](#)

Protection Against Ignitions Arising Out of Static, Lightning & Stray Currents

Described in this publication are some of the conditions that have resulted in fires caused by electrical sparks and arcs from natural causes, as well as the methods that the petroleum industry is currently applying to prevent ignitions from these sources.

[API RP 2003](#)

Safe Entry and Cleaning of Petroleum Storage Tanks

This standard provides safety practices for preparing, emptying, isolating, ventilating, atmospheric testing, cleaning, entry, hot work, and recommissioning activities in, on, and around atmospheric and low-pressure (up to and including 15 psig) aboveground storage tanks that have contained flammable, combustible, or toxic materials. This standard directs the user from decommissioning (removal from service) through recommissioning (return to service). This standard applies to stationary tanks used in all sectors of the petroleum and petrochemical plants, and terminals.

[API STD 2015](#)

Guidelines and Procedures for Entering and Cleaning Petroleum Storage Tanks

This recommended practice supplements the requirements of ANSI/API Standard 2015, Requirements for Safe Entry and Cleaning of Petroleum Storage Tanks, Sixth Edition. This RP provides guidance and information on the specific aspects of tank cleaning, in order to assist employers (owners/operators and contractors) to conduct safe tank cleaning operations in accordance with the requirements of ANSI/API Standard 2015.

[API RP 2016](#)

Temperature Determination

This standard covers the sampling, reading, averaging, and rounding of the temperature of liquid hydrocarbons in both the static and dynamic modes of measurement for volumetric purposes.

[API MPMS C7](#)

Volume Correction Factors - VCF Software

PC-based software used to perform net corrected volume calculations for virtually all petroleum custody transfer and inventory control procedures. This software implements all Petroleum Measurement Tables (Volumes I-IX, and Volumes XIII-XIV). The first edition add-in works with Microsoft® Excel versions 4 and 5 and also Lotus 1-2-3® versions 4 and 5; while the second edition add-in works with Microsoft® Excel versions 7 and 8 (which are part of Office 95 and Office 97, respectively). Users will be able to print customized VCF tables for API Gravity (Density) and temperature for ranges of API Gravity, density, and temperature within which they normally buy and sell crude and liquid petroleum products including lubricating oils. The first edition dynamic link library (DLL) allows information systems programmers to implement the VCF standards within existing or new programs that utilize 16-bit Microsoft applications, such as Visual Basic 3.0. The second edition DLL utilizes 32-bit Microsoft applications, such as Visual Basic 6.0.

[API MPMS C11.1](#)

Volume Correction Factors - VCF Software - Internal Corporate User License - Dynamic Link Library (DLL) Function

[API MPMS C11.1 DLL](#)

Volume Correction Factors - VCF Software - Internal Corporate User License - Dynamic Link Library (DLL) Function - Software Developer's License

[API MPMS C11.1 DLL SDL](#)

American Water Works Association (AWWA)

Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings

[AWWA C111](#)



Flanged Ductile-Iron Pipe with Ductile-Iron or Gray-Iron Threaded Flanges

[AWWA C115](#)

Thickness Design of Ductile-Iron Pipe

[AWWA C150](#)

API Inspector Certification Programs



API's standards-based Inspector Certification Programs offer individuals a means to improve skills, enhance job performance, and provide a uniform national platform serving as the model for many state and local government regulations. There are three Inspector Certification Programs with examinations administered twice annually. Please note that document revisions used for exams are not always the most current revisions available.

Pressure Vessel Inspector Certification Examination

Includes the exam required revisions for the following documents: API CERT 510, API CERT 572, API CERT 576, and API CERT GUIDE IRE CH2.
[API CERT 510 PROGRAM](#)

Ask about API CERT 510 ASME for ASME sections that apply for the exam.

Authorized Piping Inspector Certification Examination

Includes the exam required revisions for the following documents: API CERT 570 and API CERT 574.
[API CERT 570 PROGRAM](#)

Ask about API CERT 570 ASME for ASME sections that apply for the exam.

Aboveground Storage Tank Inspector Certification Examination

Includes the exam required revisions for the following documents: API CERT 575, API CERT 650, API CERT 651, API CERT 652, API CERT 653, API CERT 2015, and API CERT 2207.
[API CERT 653 PROGRAM](#)

Ask about API CERT 653 ASME for ASME sections that apply for the exam.

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ASME International (ASME)



Scheme for Identification of Piping Systems

This standard is intended to establish a common system to assist in identification of hazardous materials conveyed in piping systems and their hazards when released in the environment. This scheme concerns identification of contents of piping systems in industrial and power plants. It is also recommended for the identification of piping systems used in commercial and institutional installations, and in buildings used for public assembly. It does not apply to pipes buried in the ground nor to electrical conduits.

[ANSI A13.1](#)

Pipe Threads, General Purpose (Inch)

Covers dimensions and gaging of pipe threads for general purpose applications.

[ANSI B1.20.1](#)

Valves - Flanged, Threaded, and Welding Ends

Applies to new valve construction and covers pressure-temperature ratings, dimensions, tolerances, materials, nondestructive examination requirements, testing, and marking for cast, forged, and fabricated flanged, threaded, and welding end, and wafer or flangeless valves of steel, nickel-base alloys, and other alloys.

[ANSI B16.34](#)

Large Metallic Valves for Gas Distribution

Manually Operated, NPS 2 1/2 to 12, 125 psig Maximum.

[ANSI B16.38](#)

Pipe Flanges & Flanged Fittings

Covers pressure-temperature ratings, materials, dimensions, tolerances, marking, testing, and methods of designating openings for pipe flanges and flanged fittings in sizes NPS 1/2 through NPS 24 and in rating Classes 150, 300, 400, 600, 900, 1500, and 2500. Flanges and flanged fittings may be cast, forged, or (for blind flanges and certain reducing flanges only) plate materials as listed in Table 1A. Requirements and recommendations regarding bolting and gaskets are also included.

[ANSI B16.5](#)

Power Piping

Prescribes minimum requirements for the design, materials, fabrication, erection, test, and inspection of power and auxiliary service piping systems for electric generation stations, industrial institutional plants, central and district heating plants. Includes Code Case #25.

[ASME B31.1](#)

Process Piping

[ASME B31.3](#)

Liquid Transportation Systems for Hydrocarbons, Liquid Petroleum Gas, Anhydrous Ammonia and Alcohols

Prescribes requirements for the design, materials, construction, assembly, inspection, and testing of piping transporting liquids such as crude oil, condensate, natural gasoline, natural gas liquids, liquefied petroleum gas, carbon dioxide, liquid alcohol, liquid anhydrous ammonia, and liquid petroleum products between producers' lease facilities, tank farms, natural gas processing plants, refineries, stations, ammonia plants, terminals (marine, rail and truck) and other delivery and receiving points.

[ASME B31.4](#)

American Petroleum Institute (API)

Manual of Petroleum Measurement Standards - Complete Set (Excluding Chapters 11 and 19, these chapters are only available individually)

The Institute currently maintains a comprehensive API Manual of Petroleum Measurement Standards. This manual is an ongoing project, as new chapters and revisions of old chapters will be released periodically. Publications regarding measurement of evaporative loss are now listed under Chapter 19 of the Manual of Petroleum Measurement Standards. The price of the complete set is subject to change as new chapters and subchapters are released; an order for one complete set would not include the chapters published after the release date of this catalog (but prior to order receipt), and the binders. NOTE: Chapter 11 and Chapter 19 standards must be ordered separately.

[API MPMS SET](#)

ASTM International



Steel-Piping, Tubing, Fittings

Please see page 7 for a complete description.

[ASTM 01.01](#)

Ferrous Castings; Ferroalloys

Please see page 7 for a complete description.

[ASTM 01.02](#)

Wear and Erosion; Metal Corrosion

Please see page 7 for a complete description.

[ASTM 03.02](#)

Petroleum Products and Lubricants (I): D 56 - D 3230

Please see page 8 for a complete description.

[ASTM 05.01](#)

Petroleum Products and Lubricants (II): D 3231- D 5302

Please see page 8 for a complete description.

[ASTM 05.02](#)

Petroleum Products and Lubricants (III): D 5303 - D 6334

Please see page 8 for a complete description.

[ASTM 05.03](#)

Petroleum Products and Lubricants (IV): D 6335 - latest

Please see page 8 for a complete description.

[ASTM 05.04](#)

Test Methods for Rating Motor, Diesel, and Aviation Fuels; Catalysts; Manufactured Carbon, and Graphite Products

Please see page 8 for a complete description.

[ASTM 05.05](#)

Gaseous Fuels; Coal, and Coke

Please see page 8 for a complete description.

[ASTM 05.06](#)

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CSA International (CSA)



Steel Line Pipe - Oil & Gas Industry Systems & Materials

CSA Z245.1

Steel Fittings

CSA Z245.11

Steel Flanges

CSA Z245.12

Steel Valves - Oil & Gas Industry Systems & Materials

Covers steel valves primarily intended for use in oil or gas pipeline systems. The following types of valves are covered: gate valves, plug valves, ball valves, and check valves.

CSA Z245.15

Oil and Gas Pipeline Systems

Covers the design, construction, operation, and maintenance of oil and gas industry pipeline systems that convey liquid hydrocarbons, including crude oil, multiphase fluids, condensate, liquid petroleum products, natural gas liquids, and liquefied petroleum gas; oilfield water; oilfield steam; carbon dioxide used in oilfield enhanced recovery schemes; and or gas.

CSA Z662

American Petroleum Institute (API)

Tank Inspection, Repair, Alteration & Reconstruction

Covers the inspection, repair, alteration and reconstruction of steel aboveground storage tanks used in the petroleum and chemical industries. Provides the minimum requirements for maintaining the integrity of welded or riveted, nonrefrigerated, atmospheric pressure, aboveground storage tanks after they have been placed in service.

API STD 653

Specification for Line Pipe

Provides standards for pipe suitable for use in conveying gas, water and oil in both the oil and natural gas industries. Covers seamless and welded steel line pipe, including standard-weight and extra-strong threaded line pipe; and standard-weight plain-end, regular-weight plain-end, special plain-end, extra-strong plain-end, and double-extra-strong plain-end pipe; as well as bell and spigot and through-flowing (TFL) pipe.

API SPEC 5L

Government and Military Documents

Energy

10 CFR 1-50

10 CFR 51-199

10 CFR 200-499

10 CFR 500-END

Transportation of Natural and Other Gas by Pipeline; Annual Reports, Incident Reports and Safety-Related Condition Reports

Contained in 49 CFR 186 - 199.

49 CFR PT 191

Transportation of Natural and Other Gas by Pipeline; Minimum Federal Safety Standards

Contained in 49 CFR 186 -199.

49 CFR PT 192

Transportation of Hazardous Liquids by Pipeline

Contained in 49 CFR 186 - 199.

49 CFR PT 195

Petroleum Fuel Facilities

MIL-HDBK-1022

Cargo Tank Cleaning

MIL-HDBK-291

Pipe and Pipe Fittings, Glass Fiber Reinforced Plastic, for Liquid Petroleum Lines

MIL-P-29206

Color Code/Pipelines and for Compressed Gas Cylinders

MIL-STD-101

Natural Gas and Liquid Petroleum Piping

NFGS 15195

Cleaning Petroleum Storage Tanks

NFGS-Y-13657

Hydraulic Institute (HI)



Complete Set of Centrifugal, Reciprocating, Rotary, and Vertical Pump Standards

The greatly expanded Hydraulic Institute ANSI/HI Pump Standards Year 2000 Edition replaces all previous editions. It contains the latest information on the full range of pump types, including definitions, industry terminology, design and application, installation, operation, and maintenance guidelines. It also includes HI's widely accepted test standards in both Inch and Metric units. The 24-document set has been expanded to include more relevant data. In Centrifugal Pump Design and Application, there are seven new sections. A new Mechanical Test section for Centrifugal Pumps and Vertical Pumps has information on set-up and operation of a mechanical integrity test. For Vertical Pump Design and Application, four new sections are included. For Rotary Pumps there is a significant new section on nozzle loads. New general guidelines for pump, a tutorial section with revised text on vibrational dynamics for 11 different pump types and a guideline on condition monitoring for Centrifugal and Vertical pumps are included. A comprehensive index is supplied separately.

HI M100

Instrument Society of America (ISA)



ISA—The Instrumentation, Systems, and Automation Society

Temperature Measurement Thermocouples

Covers coding of thermocouple and extension wire; coding of insulated duplex thermo-couple extension wires; terminology, limits of error and wire sizes for thermocouples and thermocouple extension wires; temperature EMF tables for thermocouples; plus appendices that cover fabrication, checking procedures, selection, and installation.

ISA MC96.1

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Wiring Practices for Hazardous (Classified) Locations Instrumentation - Part 1: Intrinsic Safety

Provides guidance for the design, installation, and maintenance of intrinsically safe systems for hazardous (classified) locations. Information is provided to clarify and explain the requirements of Article 504 of the National Electrical Code.

[ISA RP12.6](#)

American Petroleum Institute (API)

Welding of Pipelines and Related Facilities

Covers gas and arc welding for the production of high-quality welds in carbon and low-alloy steel piping used in the compression, pumping, and transmission of crude petroleum, petroleum products, and fuel gases where applicable to distribution systems.

[API STD 1104](#)

Welded Steel Tanks for Oil Storage

Covers material, design, fabrication, erection, and testing requirements for vertical, cylindrical, aboveground, closed -and open-top, welded steel storage tanks in various sizes and capacities for internal pressures approximating atmospheric pressure (internal pressures not exceeding the weight of the roof plates), but a higher internal pressure is permitted when additional requirements are met. This standard applies only to tanks whose entire bottom is uniformly supported and to tanks in non-refrigerated service that have a maximum operating temperature of 200°F.

[API STD 650](#)

International Organization for Standardization (ISO)



Petroleum and Natural Gas Industries - Steel Pipe for Pipelines - Technical Delivery Conditions - Part 1: Pipes of Requirement Class A

[ISO 3183-1](#)

Petroleum and Natural Gas Industries - Steel Pipe for Pipelines - Technical Delivery Conditions - Part 2: Pipes of Requirements Class B

[ISO 3183-2](#)

Petroleum and Natural Gas Industries - Drilling and Production Equipment - Drill Stem Design and Operating Limits

[ISO 10407](#)

Petroleum and Natural Gas Industries - Subsurface Safety Valve Systems - Design, Installation, Operation and Repair

[ISO 10417](#)

Petroleum and Natural Gas Industries - Offshore Production Platforms - Analysis, Design, Installation and Testing of Basic Surface Safety Systems

[ISO DIS 10418](#)

Petroleum and Natural Gas Industries - Drilling and Production Equipment - Installation, Maintenance and Repair of Surface Safety Valves and Underwater Safety Valves Offshore

[ISO 10419](#)

Petroleum and Natural Gas Industries - Flexible Pipe Systems for Subsea and Marine Riser Applications

[ISO 10420](#)

Petroleum and Natural Gas Industries - Drilling and Production Equipment - Specification for Valves, Wellhead and Christmas Tree Equipment

[ISO 10423](#)

Petroleum and Natural Gas Industries - Drilling and Production Equipment - Specification for Wellhead Surface Safety Valves and Underwater Safety Valves for Offshore Service

[ISO 10433](#)

Petroleum and Natural Gas Industries - General Purpose Steam Turbines for Refinery Service

[ISO 10436](#)

Petroleum and Natural Gas Industries - Special Purpose Steam Turbines for Refinery Service

[ISO DIS 10437](#)

Petroleum and Natural Gas Industries - Pipeline Transportation Systems

[ISO 13623](#)

Manufacturers Standardization Society of the Valve and Fittings Industry (MSS)

Quality Standard for Steel Castings for Valves, for Valve Flanges, and Fittings and Other Piping Components

[MSS SP 55](#)

NACE International (NACE)



Sulfide Stress Cracking Resistant Metallic Materials for Oil Field Equipment

Internationally recognized, and ANSI approved.

[NACE MR 01 75](#)

Control of External Corrosion on Underground or Submerged Metallic Piping Systems

[NACE RP 01 69](#)

Corrosion Control of Steel, Fixed-Offshore Platforms Associated with Petroleum Production

[NACE RP 01 76](#)

Fabrication Details, Surface Finish Requirements, and Proper Design Consideration for Tanks and Vessels to be Lined for Immersion Service

[NACE RP 01 78](#)

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External Cathodic Protection of On-Grade Metallic Storage Tank Bottoms

NACE RP 01 93

National Electrical Manufacturers Association (NEMA)



Industrial Control and Systems General Requirements

Provides practical general information concerning ratings, construction, testing, performance, and manufacture of industrial control and systems equipment and terminal blocks. This publication is strongly recommended for use in conjunction with other NEMA ICS publications.

[NEMA ICS 1](#)

Industrial Control and Systems Controllers, Contactors and Overload Relays Rated 600 Volts

Provides general requirements for manual and magnetic controllers, and covers the requirements for magnetic and nonmagnetic motor controllers, overload relays, and magnetic lighting contactors.

[NEMA ICS 2](#)

Motors and Generators

Please see page 49 for a complete description.

[NEMA MG 1](#)

Energy Management Guide for Selection and Use of Fixed Frequency Medium AC Squirrel-Cage Polyphase Induction Motors

Provides practical information concerning the proper selection and application of polyphase induction and synchronous motors including installation, operation, and maintenance.

[NEMA MG 10](#)

National Fire Protection Association (NFPA)



National Electrical Code (NEC)

Please see page 33 for a complete description.

[NFPA 70](#)

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[PETROCHEM/UTILITIES INDUSTRY TRENDS](#)

The Institute of Electrical & Electronics Engineers, Inc. (IEEE)



IEEE Standard for Petroleum and Chemical Industry - Severe Duty Totally Enclosed Fan-Cooled (TEFC) Squirrel Cage Induction Motors-Up to and Including 500 HP

[IEEE 841](#)

General Requirements for Liquid-Immersed Distribution, Power and Regulating Transformers

Electrical, mechanical, and safety requirements are set forth for liquid-immersed distribution and power transformers, and autotransformers and regulating transformers; single and polyphase, with voltages of 601 V or higher in the highest voltage winding. This standard is the basis for the establishment of performance, limited electrical and mechanical interchangeability, and safety requirements of equipment described; and for assistance in the proper selection of such equipment.

[IEEE C57.12.00](#)

Test Code for Liquid-Immersed Distribution, Power and Regulating Transformers

Defines a common format for data files and exchange medium used for the interchange of various types of fault, test, or simulation data for electrical power systems.

[IEEE C57.12.90](#)

Tubular Exchanger Manufacturers Association (TEMA)

Standards of the Tubular Exchanger Manufacturers Association - 8th Edition

Includes CD-ROM.

[TEMA BOOK OF STANDARDS](#)

Underwriters Laboratories Inc. (UL)



Steel Underground Tanks for Flammable and Combustible Liquids

Covers horizontal atmospheric-type steel tanks intended for the storage underground of flammable and combustible liquids. Covers single wall tanks, secondary containment tanks, multiple compartment single wall and multiple compartment secondary containment tanks.

[UL 58](#)

Valves for Anhydrous Ammonia and LP-Gas (Other than Safety Relief)

Covers the following types of anhydrous ammonia and liquefied petroleum gas (LP-Gas) valves for use at temperatures within the range of minus 40°F (minus 40°C) to 130°F (55°C): shut-off valves, excess flow valves, back pressure check valves, filler valves, vapor return valves, and actuated liquid withdrawal excess-flow valves.

[UL 125](#)



Safety Relief Valves for Anhydrous Ammonia and LP-Gas

Covers safety valves and hydrostatic relief valves for anhydrous ammonia and liquefied petroleum gas (LP-Gas) for use in nonrefrigerated systems in facilities covered in ANSI K61.1, NFPA 58-1995, and NFPA 59-1995.

[UL 132](#)

Steel Aboveground Tanks for Flammable and Combustible Liquids

Covers steel atmospheric tanks intended for aboveground storage of noncorrosive, stable flammable, and combustible liquids that have a specific gravity not exceeding that of water.

[UL 142](#)

Nonmetallic Underground Piping for Flammable Liquids

Covers primary carrier and secondary containment nonmetallic pipe and fittings (piping) intended for use underground in the distribution of petroleum-based flammable and combustible liquids, alcohols, and alcohol-blended fuels. Unless otherwise stated, requirements apply to both primary carrier and secondary containment pipe and fittings.

[UL 971](#)

Glass Fiber Reinforced Plastic Underground Storage Tanks for Petroleum Products, Alcohols, and Alcohol-Gasoline Mixtures

Covers spherical or horizontal cylindrical, atmospheric-type tanks of glass-fiber-reinforced plastic (FRP) that are intended for the underground storage of petroleum-based flammable and combustible liquids, alcohols, and alcohol-blended fuels.

[UL 1316](#)

External Corrosion Protection Systems for Steel Underground Storage Tanks

Covers pre-engineered corrosion protection systems.

[UL 1746](#)



American National Standards Institute (ANSI)

For Plastics Machinery - Horizontal Injection Molding Machines - Safety Requirements for Manufacture, Care and Use

[ANSI B151.1](#)

American National Standards Institute (ANSI)



For Plastics Machinery - Horizontal Injection Molding Machines - Safety Requirements for Manufacture, Care and Use

[ANSI B151.1](#)

For Plastic Film and Sheet Winding Machinery - Manufacture, Care and Use

[ANSI B151.5](#)

For Plastics Machinery - Plastics Extrusion Machines - Requirements for the Manufacture, Care, and Use

[ANSI B151.7](#)

For Plastics Machinery - Extrusion Blow Molding Machines - Safety Requirements for Manufacture, Care, and Use

[ANSI B151.15](#)

For Plastic Sheet Production Machinery - Manufacture, Care and Use

[ANSI B151.20](#)

For Plastics Machinery - Injection Blow Molding Machines - Safety Requirements for Manufacture, Care, and Use

[ANSI B151.21](#)

For Plastics Machinery - Robots used with Horizontal Injection Molding Machines - Safety Requirements for the Integration, Care and Use

[ANSI B151.27](#)

ASM International (ASM)



Engineering Plastics

[ASM ENGINEERED HDBK V2](#)

Engineering Plastics and Composites, 2nd Edition

[ASM ENGINEERING PLASTICS](#)

ASTM International (ASTM)

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Plastics (III): D 4329 - Latest

[ASTM 08.03](#)

Plastics (III): D 4329 - Latest

[ASTM 08.03 CD](#)

Taken together, these 3 volumes (08.01 - 08.03) have tests and practices for assessing physical properties, evaluating mechanical properties, optical properties, permanence properties, and thermal properties. In addition to the several specifications and tests that cover film and sheeting, these volumes also cover cellular plastics, olefin plastics, reinforced plastics, and thermosetting materials. These volumes also include several tests and practices that pertain to environmentally degradable plastics and others that outline standards procedures for molding.

Plastic Pipe and Building Products

[ASTM 08.04](#)

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Plastics Piping Standards

A compilation of 55 ASTM Plastics Piping Standards categorized by the following subjects: Terminology, Test Methods, Pipe Specifications, Installation/Joining, Sample Preparation, Resins, and Fitting Specifications. One volume, includes binder.

[Plastics Piping Standards](#)

British Standards Institution (BSI)

Plastics - Determination of Cadmium - Wet Decomposition Meth

[BS EN 1122](#)



British Standards Institution (BSI)



Specification for Design and Construction of Vessels and Tanks in Reinforced Plastics

[BS 4994](#)

Rubber and Plastics Machines - Injection Moulding Machines - Safety Requirements

[BS EN 201](#)

Rubber and Plastics Machinery - Compression and Transfer Moulding Presses - Safety Requirements for the Design

[BS EN 289](#)

Plastics - Determination of Cadmium - Wet Decomposition Meth

[BS EN 1122](#)

Rubber and Plastics Machines - Reaction Moulding Machines - Part 1. Safety Requirements for Metering and Mixing Units

[BS EN 1612-1](#)

Deutsches Institut für Normung, e.V. (DIN)



Plastics 1. Standards for Methods of Testing Mechanical, Thermal and Electrical Properties

[DIN HDBK 18](#)

Plastics 10. Standards for Roofing Felt and Waterproofing Sheeting, Floor Coverings and Artificial Leather.

[DIN HDBK 150](#)

Standards for Thermosetting Plastics Pipes, Pipe Fittings and Pipejoint Assemblies

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GM North America (GM)



Plastics

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International Organization for Standardization (ISO)

Plastics - Determination of Flexural Properties

[ISO 178](#)

International Organization for Standardization (ISO)



Plastics - Determination of Flexural Properties

[ISO 178](#)

Plastics - Injection Moulding of Test Specimens of Thermoplastic Materials - Part 1: General Principles, and Moulding of Multipurpose and Bar Test Specimens

[ISO 294-1](#)

Plastics - Determination of Tensile Properties - Part 1: General Principles

[ISO 527-1](#)

Plastics - Determination of Tensile Properties - Part 2: Test Conditions for Moulding and Extrusion Plastics

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Plastics - Symbols and Abbreviated Terms - Part 1: Basic Polymers and Their Special Characteristics

[ISO 1043-1](#)

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Plastics - Symbols and Abbreviated Terms - Part 3: Plasticizers

[ISO 1043-3](#)

Plastics - Symbols and Abbreviated Terms - Part 4: Flame Retardants

[ISO 1043-4](#)

Plastics - Generic Identification and Marking of Plastics Products

[ISO 11469](#)

Japanese Standards Association (JSA)

Japanese Industrial Standards (JIS) Handbooks

JIS Plastics 1 (Test Methods)

[JIS PLASTICS 1](#)

JIS Plastics 2 (Materials and Products)

[JIS PLASTICS 2](#)



McGraw Hill Publishing Company

Written by Charles A. Harper

Handbook of Plastics, Elastomers, and Composites

A broad range of new industrial techniques and developments are presented. Categorizes plastics and elastomers, identifies the materials in each category, and presents the advantages of each for major products. Includes a broad range of new thermoplastics; new developmental advances; new developments in processing composites; high performance requirements for products with both chemical and mechanical applications; new improvements in plastic compositions and process capabilities; and health and safety aspects.

[HANDBOOK OF PLASTICS](#)

Written by George S. Brady and Henry R. Clauser

Materials Handbook

Encyclopedic coverage of the nature and use of 15,000 alphabetically-arranged materials and substances, discussed in 800 articles. For each material and substance, there is information on composition, production methods, properties and characteristics, uses, and commercial designations or trade names. This edition includes 1,000 new materials and revisions of approximately 50% of the 15,000 entries. Weights and measures are given in both S.I. and U.S. Customary Units.

[MATERIALS HANDBOOK](#)

NACE International (NACE)



Managing Corrosion with Plastics, Volume X

[NACE 37368](#)

Managing Corrosion with Plastics, Volume XI

[NACE 37382](#)

Corrosion of Plastics and Rubber in Process Equipment-Experiences from the Pulp and Paper Industry

[NACE 37769](#)

Furan Reinforced Thermoset Plastics for Chemical Process Equipment MTI Publication No. 21

[NACE 37912](#)

NSF International (NSF)



Plastics Piping System Components and Related Materials

[NSF 14](#)

Plastics Engineering Handbook of The Society of the Plastics Industry

Plastics Engineering Handbook of The Society of the Plastics Industry

Sponsored by SPI, for more than 40 years this classic work has served as the keystone reference for all involved in plastics selection and processing applications. This edition features a full revision and update of each chapter, with key sections contributed by leaders in each speciality. Covers such newer areas as high-temperature thermoplastics; RTM and SRIM; sophisticated online process control, gas-assisted injection molding; stretch blow molding; thermoplastic composites; liquid crystal polymers; and new plastics applications.

[Plastics Engineering HDBK](#)

SAE International (SAE)



Cap, Dust, Plastic, Electric Connector

[SAE AS 90376](#)

Marking of Plastic Parts

[SAE J1344](#)

Classification System for Automotive Polyamide (PA) Plastics

[SAE J1639](#)

Society of Plastics Engineers (SPE)

Society of Plastics Engineers Publications Catalog

[SPE Index](#)

Society of the Plastics Industry (SPI)

Recommended Guideline for Safety Signs for Plastic Machinery and Related Equipment

[SPI AN 137](#)

Mold Finish Guide

[SPI AR 106](#)

Custom Contact-Molded Reinforced Polyester Chem-Resist

[SPI PS 15](#)



Underwriters Laboratories, Inc. (UL)



Plastics - UL Set 15

Includes: UL 94, UL 723, UL 746A, UL 746B, UL 746C, and UL 746D.
[UL Set 15](#)

Listed below are the UL Standards for Safety contained in UL Set 15.

UL Set 15 - Plastics

Tests for Flammability of Plastics Materials for Parts in Devices & Appliances

[UL 94](#)

Test for Surface Burning Characteristics of Building Materials

[UL 723](#)

Polymeric Materials - Short Term Property Evaluation

[UL 746A](#)

Polymeric Materials - Long Term Property Evaluations

[UL 746B](#)

Polymeric Materials - Use in Electrical Equipment Evaluations

UL Set 15 - Plastics.

[UL 746C](#)

Polymeric Materials - Fabricated Parts

[UL 746D](#)

UL Related Plastics Standards

Polymeric Materials - Coil Forms

[UL 1692](#)

Test for Flammability of Small Polymeric Component Materials

[UL 1694](#)

Fire Tests for Foamed Plastics Used for Decorative Purposes

[UL 1975](#)

Test Methods for Determining the Combustibility Characteristics of Plastics used in Semi-Conductive Tool Construction

[UL 2360](#)



American Conference of Governmental Industrial Hygienists (ACGIH)

Material Safety Data Sheets (MSDS), CD-ROM
[ACGIH MSDS CD-ROM](#)

American Conference of Governmental Industrial Hygienists (ACGIH)

2000 TLVs and BEIs: Threshold Limit Values for Chemical Substances and Physical Agents

This user-friendly, pocket-size publication is used world-wide as a guide for evaluation and controlling workplace exposures to chemical substances and physical agents. Threshold Limit Value (TLV) occupational exposure guidelines are recommended for over 700 chemical substances and physical agents. Includes more than 50 Biological Exposure Indices (BEIs) covering over 80 chemical substances.

[ACGIH BIOLOGICAL EXPOSURE](#)

Occupational Biomechanics

[ACGIH BIOMECHANICS](#)

Personal Protective Equipment Pocket Guide

[ACGIH EQUIPMENT GUIDE](#)

Fundamentals of Industrial Hygiene

[ACGIH FUNDAMENTALS](#)

Occupational Health & Safety

Major topic areas include: The Occupational Safety and Health Team; Managing the Health Safety Process; Managing Human Resources; Legal/Ethical Considerations; and Outlook for Occupational Health and Safety.

[ACGIH HEALTH](#)

Industrial Ventilation - A Manual of Recommended Practice

[ACGIH MANUAL](#)

Material Safety Data Sheets (MSDS), CD-ROM

[ACGIH MSDS CD-ROM](#)

American Petroleum Institute (API)



API Health, Environment and Sciences Department (HESD) Publications

API conducts health and environmental research programs on a variety of topics of interest to the petroleum industry. These programs result in software or reports providing information to assist companies in addressing issues such as: a) Health effects of petroleum products; b) Effects of fuel changes on vehicle emissions; c) Remediation of contaminated sites; d) Storage tank and pipeline leak detection; and e) Techniques to estimate facility air emissions. In addition, these programs foster the exchange of scientific and technical information among industry engineers and scientists as well as other professionals, governmental and industrial organizations. Both current and historical HESD publications from API are available from Global.

American Welding Society (AWS)



Effects of Welding on Health

Set of 11 Books with Hardcopy Index. Deals with studies of the fumes, gases, radiation and noise generated during various arc welding processes. Section 1 summarizes studies of the occupational exposures, while Section 2 contains information related to the human health effects of exposure to by-products of welding operations. Section 3 discusses studies of the effects of welding emissions on laboratory animals and in vitro cell systems.

[AWS EWH-ALL](#)

[AWS EWH-ACD](#)

Safety and Health Fact Sheets

[AWS SHF](#)

British Standards Institution (BSI)



Samples for Testing

[BS 6920 P2 S2.1](#)

Suitability of Non-Metallic Products for use in Contact with Water Intended for Human Consumption with Regard to Their Effect on the Quality of the Water - Part 2: Methods of Test - Section 2.2: Taste of Water - Subsection 2.3: Appearance of Water

[BS 6920 P2 S2.3](#)

Suitability of Non-Metallic Products for use in Contact with Water Intended for Human Consumption with Regard to Their Effect on the Quality of the Water - Part 2: Methods of Test - Section 2.4: Growth of Aquatic Micro-Organisms Test

[BS 6920 P2 S2.4](#)

Suitability of Non-Metallic Products for use in Contact with Water Intended for Human Consumption with Regard to Their Effect on the Quality of the Water - Part 2: Methods of Test - Section 2.5: The Extraction of Substances that may be of Concern to Public Health

[BS 6920 P2 S2.5](#)



Suitability of Non-Metallic Products for use in Contact with Water Intended for Human Consumption with Regard to Their Effect on the Quality of the Water - Part 2: Methods of Test - Section 2.6: The Extraction of Metals

[BS 6920 P2 S2.6](#)

Code of Federal Regulations (CFR)

From the Office of the Federal Register. Global stocks the complete multi-volume collection of the CFR and Index. The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the Federal Government of the United States. It is divided into 50 titles which represent broad areas subject to Federal regulation. Subjects include: Energy, Commerce and Foreign Trade, Customs Duties, Food and Drug, Foreign Relations, Labor, Protection of Environments, Telecommunication, and Transportation.

Code of Federal Regulation (CFR) Complete Set

Please see page 140 for a complete description.

[CFR SET](#)

Public Health

Please see page 142 for a complete description.

[42 CFR 1-399](#)

[42 CFR 400-429](#)

[42 CFR 430-END](#)

NSF International (NSF)

Drinking Water Treatment Chemicals - Health Effects

This standard covers products intended to be added to water in the production of drinking water for such purposes as: disinfection, oxidation, filtration, scale control, corrosion control, pH adjustment, softening, and precipitation.

[NSF 60](#)

NSF International (NSF)



Food Service Equipment

This document has a supplement sold separately (NSF 2-Supplement). Covers equipment commonly known as "fabricated food equipment." It includes basic principles of design, construction, and performance necessary for food protection.

[NSF 2](#)

Descriptive Details for Food Service Standard Equipment Standards

This is the supplement to NSF 2: Food Service Equipment

[NSF 2 SUPPLEMENT](#)

Refuse Processors and Processing Equipment

[NSF 13](#)

Commercial Bulk Milk Dispensing Equipment

[NSF 20](#)

Residential Wastewater Treatment Systems

This standard contains minimum requirements for residential wastewater treatment systems having single, defined discharge points and rated treatment capacities between 1,514 L/day (400 gal/day) and 5,678 L/day (1500 gal/day).

[NSF 40](#)

Non-Liquid Saturated Treatment Systems

This standard establishes minimum materials, design and construction and performance requirements for non-liquid saturated treatment systems. It is intended to protect public health and the environment as well as minimize nuisance factors.

[NSF 41](#)

Drinking Water Treatment Units - Aesthetic Effects

The point-of-use and point-of-entry systems addressed by this standard are designed to be used for the reduction of specific substances that may be present in drinking water considered to be microbiologically safe and of known quality.

[NSF 42](#)

Residential Cation Exchange Water Softeners

[NSF 44](#)

Drinking Water Treatment Units - Health Effects

The point-of-use and systems addressed by this standard are designed to be used for the reduction of specific substances that may be present in drinking water. These substances are considered established or potential health hazards.

[NSF 53](#)

Reverse Osmosis Drinking Water Treatment Systems

The point-of-use reverse osmosis drinking water treatment systems addressed by this standard are designed to be used for the reduction of specific substances that may be present in drinking water supplies (public or private).

[NSF 58](#)

Drinking Water Treatment Chemicals - Health Effects

This standard covers products intended to be added to water in the production of drinking water for such purposes as: disinfection, oxidation, filtration, scale control, corrosion control, pH adjustment, softening, and precipitation.

[NSF 60](#)

Drinking Water System Components - Health Effects

This standard is intended to cover specific materials for products that come into contact with drinking water, drinking water treatment chemicals, or both.

[NSF 61](#)



American Petroleum Institute (API)



Specification for Quality Programs for the Petroleum and Natural Gas Industry

API's Monogram mark quickly identifies manufacturers as licensed suppliers to the petroleum industry, and offers users the industry's best guide to quality. Outlines quality assurance requirements identified as necessary to facilitate the board availability of safe and interchangeable products. This program licenses manufacturers to use the API Monogram on equipment manufactured in accordance with API's Exploration and Production standard specifications. Each quarter, a Composite List of Companies Licensed to Use the API Monogram and APIQR ISO 9000 Registration Mark is widely circulated, providing detailed product lists from which purchasers may select quality equipment from reliable sources.

[API Q1](#)

NPRA Survey, Final Report: 1996 API/NPRA Survey of Refining Operations and Product Quality

A survey of industry refining data for the period May 1 through August 31, 1996. The report includes information on domestically produced gasoline and diesel product quality as well as aggregate domestic refining capacity and average operating data.

[API NPRA SURVEY](#)

Quality Improvement Manual For Mechanical Equipment In Petroleum, Chemical, and Gas Industries

This standard provides guidelines for improving the quality of mechanical equipment. It is intended to mutually benefit users, contractors, and suppliers; and facilitate improved relationships between them by promoting trust, teamwork, and communication. A three-part approach for improving the quality of mechanical equipment is described in this recommended practice, consisting of (a) the traditional methods used to help assure quality; (b) techniques that can be used to identify those suppliers who have quality systems so effective that intense user involvement is unnecessary; and (c) suggestions on how users, contractors, and suppliers can work together to improve quality.

[API RP 683](#)

Refractory Installation Quality Control Guidelines - Inspection and Testing Monolithic Refractory Linings and Materials

This standard provides guidelines for the installation quality control of monolithic refractory linings and may be used to supplement owner specifications. Materials, equipment and personnel are qualified by the methods described; and applied refractory quality is closely monitored based on defined procedures and acceptance quality.

[API RP 936](#)

American Society for Quality (ASQ)

Guidelines for Auditing Quality Systems

Includes Q10011-1, Q10011-2, and Q10011-3 (American equivalent to ISO 10011).

[ASQ Q10011 Series](#)

ASQ Q9000 SET

Includes ASQ Q9000, ASQ Q9001, and ASQ Q9004.

[ASQ Q9000 SET](#)

American Society for Quality (ASQ)



Managing the quality process is a major issue for many manufacturers today. Implementing Total Quality Management (TQM) can be complex, time-consuming, and often a baffling process. How do you start and maintain an effective quality management program? How can you be sure that your program is comprehensive enough to meet the demanding requirements of consumers around the world? Now the American Society for Quality (ASQ) and Global bring you the industry's foremost experts to give you the tools you need to build and succeed in your program.

ASQ Q9000 Series - Quality Standards

Quality Management and Quality Assurance Standards - Guidelines for Selection and Use

These ASQ standards are internationally recognized as identical to the ISO 9000 quality standards. This standard explains the fundamental quality concepts of the standards and provides guidelines for the selection and use of Q9001, Q9002, Q9003, and Q9004.

[ASQ Q9000-1](#)

Quality Management and Quality Assurance Standards - Guidelines for the Application of ANSI/ISO/ASQC 9001:1994 to the Development, Supply, Installation, and Maintenance of Computer Software

[ASQ Q9000-3](#)

Quality Management Systems - Fundamentals and Vocabulary

This standard explains the fundamental quality concepts and the vocabulary used in the ANSI/ISO/ASQC 9001-2000 and Q9004-2000 quality standards.

[ASQ Q9001](#)

Quality Management Systems - Guidelines for Performance Improvements

This standard describes the basic set of elements by which a quality management system can be developed and implemented internally. It provides guidance and interpretation for implementing an ISO 9000:2000 quality system within your organization.

[ASQ Q9004](#)

ASQ Q9000 SET

Includes ASQ Q9000, ASQ Q9001, and ASQ Q9004.

[ASQ Q9000 SET](#)

Other Popular ASQ Standards on Quality

Guidelines for Auditing Quality Systems

Includes Q10011-1, Q10011-2, and Q10011-3 (American equivalent to ISO 10011).

[ASQ Q10011 Series](#)



Guide for Quality Control Charts - Control Chart Method of Analyzing Data - Control Chart Method of Controlling Quality During Production

ANSI/ASQC B1-1996: This is a guide for handling problems concerning the economic control of quality of materials and manufactured products, with particular reference to methods of collecting, arranging, and analyzing inspection. ANSI/ASQC B2-1996: This guide gives particular reference to quality data resulting from inspections and tests of materials and manufactured products. ANSI/ASQC B3-1996: This outlines the control chart method of identifying and eliminating causes of trouble in repetitive production processes in order to reduce variation in the quality of manufactured products and materials.

[ASQ B1-B3](#)

Quality Management and Quality Assurance - Vocabulary

This standard defines the fundamental terms relating to quality concepts, as they apply to all areas, for the preparation and use of quality management and assurance standards. (Revision and redesignation of ANSI/ASQC A3-1987.)

[ASQ A8402](#)

Sampling Procedures and Tables for Inspection by Attributes

This updated standard replaces MIL-STD-105E and establishes sampling plans and procedures for inspection by attributes. It is also compatible and interchangeable with ANSI/ASQC Z1.9-1993 for variables inspection.

[ASQ Z1.4](#)

Sampling Procedures and Tables for Inspection by Variables for Percent Non-Confirming

This standard establishes sampling plans and procedures for inspection by variables, corresponds to the military standard MIL-STD-414, and is interchangeable with ISO 3951. It contains tables and procedures of MIL-STD-414.

[ASQ Z1.9](#)

General Requirements For A Quality Program

This standard establishes a quality program by a contractor to ensure compliance with contract requirements in the areas of quality management, design information, procurement, manufacture, acceptance, and documentation.

[ASQ C1](#)

Statistics - Vocabulary and Symbols - Probability and General Statistical Terms

Revision and Redesignation of ANSI/ASQC A1-1987 and ANSI/ASQC A2-1987.

[ASQ A3534-1](#)

Statistics - Vocabulary and Symbols - Statistical Quality Control

Revision and redesignation of ANSI/ASQC A1-1987 and ANSI/ASQC A2-1987.

[ASQ A3534-2](#)

Guide to Inspection Planning

This standard provides generic guidelines for planning and applying a product/process inspection system for construction, manufacturing, operating, or service functions.

[ASQ E2](#)

Quality Management - Guidelines to Quality in Project Management

This standard offers direction on those quality systems elements, concepts, and practices for which the implementation is important to and has an impact on the practice of project management.

[ASQ Q10006](#)

Quality Management - Guidelines for Configuration Management

This standard provides guidelines for configuration management, which provides visibility and control of a product's functional and physical characteristics. It satisfies requirements found in other ISO 9000 family standards.

[ASQ Q10007](#)

Sampling Procedures and Tables for Inspection of Isolated Lots by Attributes

This acceptance sampling system is used when one or more lots that are isolated or separated from a continuous stream of lots are submitted for acceptance. The quality levels referenced in this standard are indexed by limiting quality. The procedures of this standard differ from those of ANSI/ASQC Z1.4.

[ASQ Q3](#)

An Attribute Skip-Lot Sampling Program

To be used only with ANSI/ASQC Z1.4-1993, this standard provides a procedure for reducing the inspection effort on products submitted by those suppliers who have demonstrated their ability to control all facets of product quality.

[ASQ S1](#)

Introduction To Attribute Sampling

Written to assist in the proper application of ANSI/ASQC Z1.4-1993, much of what is included in this guide applies equally well to many other standards for the acceptance of lots by sampling procedures.

[ASQ S2](#)

Written by Richard S. Johnson

TQM: Management Processes for Quality Operations

Major topics include hiring; performance management and improvements; quality culture, how to write a quality manual and managing change; time management; and management ethics.

[ASQ H0732](#)

Written by Richard S. Johnson

TQM: Quality Training Practices

An outline to develop and implement an ongoing in-house training program that produces results using on-board resources.

[ASQ H0734](#)

Written by B. Scott Parsowith

Fundamentals of Quality Auditing

A clear and concise overview of the quality auditing field, with examples from the best work of current auditing experts. A brief summary of sampling and general statistics is included to provide you with the basic concepts necessary for an accurate audit.

[ASQ H0794](#)

Written by Dianne Galloway

Mapping Work Processes

This hands-on, step-by-step workbook outlines the creation of flow charts, proven to help improve any work process. Detailed exercises teach anyone to chart and document processes, understand them, and make improvements from them.

[ASQ H0822](#)

Written by Dennis Arter



Quality Audits for Improved Performance, Second Edition

This book provides a single source of information on the basics of quality auditing. This edition clarifies the third party role, has an expanded appendix and includes new ideas and techniques based on ISO 9000.

[ASQ H0844](#)

Written by Lawrence A. Wilson

Eight-Step Process to Successful ISO 9000 Implementation: A Quality Management System Approach

Renowned ISO 9000 expert presents his proven eight-step process for ISO 9000 implementation in full detail. His methodologies will systematically and cost-effectively guide you through all aspects of ISO 9000 implementation, including the registration process.

[ASQ H0878](#)

Principles and Practices of Organizational Performance Excellence

This is an easy overview of TQM illustrated with a detailed explanation of quality tools. The book shows how management's adoption of TQM is necessary to keep a competitive edge.

[ASQ H0995](#)

Written by Bob E. Hayes

Measuring Customer Satisfaction: Survey Design, Use, and Statistical Analysis Methods

Includes significant discussions of reliability statistics for measuring questionnaire precision, as well as the statistical framework for using customer satisfaction questionnaires.

[ASQ H0925](#)

International Electrotechnical Commission (IEC)

Electronic Components Specification Structures for Quality Assessment (Qualifications Approval and Capability Approval)

[IEC GUIDE 102](#)

Basic Rules of the IEC Quality Assessment System for Electronic Components (IECQ)

[IEC QC 001001](#)

IEC Quality Assessment System for Electronic Components (IECQ) Rules of Procedure - Part 1: Administration

[IEC QC 001002-1](#)

IEC Quality Assessment System for Electronic Components (IECQ) Rules of Procedure - Part 2: Documentation

[IEC QC 001002-2](#)

Rules of Procedure of the IEC Quality Assessment Systems for Electronic Component (IECQ) - Part 3: Approval Procedures, Including a New Clause on Technology Approval

[IEC QC 001002-3](#)

IEC Quality Assessment System for Electronic Components (IECQ) - Specifications List

[IEC QC 001004](#)

Quality Management and Quality Assurance Standards - Part 4: Guide to Dependability Programme Management

Gives the essential features of a comprehensive dependability program for the planning, organization, direction and control of resources to produce products which will be reliable and maintainable. This publication supersedes IEC 60300.

[IEC 60300-1](#)

International Electrotechnical Vocabulary - Part 191: Dependability and Quality of Service

[IEC 60050-191](#)

International Organization for Standardization (ISO)

ISO 9000 Collection 1

Includes the 2000 Revisions of ISO 9000, ISO 9001, and ISO 9004.

[ISO 9000 COLLECTION 1](#)

International Standards for Quality Management

Quality is a strategic need - it is critical to you and your customers. Global has the resources to help your quality be as good as it should be by offering fast and complete access to ISO standards and publications. The ISO 9000 Compendium, now in its 9th Edition, offers you the most current information on quality management. It explains how to develop and run a quality assurance system, and provides details on the various types of quality operations - so you can create a strategy that works best for you. In the Compendium you'll receive the published international standards that have been approved by worldwide consensus. Plus, all draft standards are also included, providing you with the latest information currently circulated for industry comments.

[ISO 9000 COMPENDIUM](#)

You may order the documents individually or as a complete set in the Compendium.

Quality Assurance Requirements for Measuring Equipment Set

Set includes ISO 10012-1 and ISO 10012-2.

[ISO 10012 SET](#)

International Organization for Standardization (ISO)



ISO 9000 Collection 1

Includes the 2000 Revisions of ISO 9000, ISO 9001, and ISO 9004.

[ISO 9000 COLLECTION 1](#)

ISO 9000 Collection 2

Includes ISO 9000 Series Documents.

[ISO 9000 COLLECTION 2](#)



ISO 9000

International Standards for Quality Management

Quality is a strategic need - it is critical to you and your customers. Global has the resources to help your quality be as good as it should be by offering fast and complete access to ISO standards and publications. The ISO 9000 Compendium, now in its 9th Edition, offers you the most current information on quality management. It explains how to develop and run a quality assurance system, and provides details on the various types of quality operations - so you can create a strategy that works best for you. In the Compendium you'll receive the published international standards that have been approved by worldwide consensus. Plus, all draft standards are also included, providing you with the latest information currently circulated for industry comments.

[ISO 9000 COMPENDIUM](#)

You may order the documents individually or as a complete set in the Compendium.

Quality Management Systems - Fundamentals and Vocabulary

Establishes a starting point for understanding the standards and defines the fundamental terms and definitions used in the ISO 9000 family which you need to avoid misunderstandings in their use.

[ISO 9000](#)

Quality Management Systems Requirements

This is the requirement standard you use to assess your ability to meet customer and applicable regulatory requirements and thereby address customer satisfaction. It is now the only standard in the ISO 9000 family against which third-party certification can be carried.

[ISO 9001](#)

Quality Management and Quality System Elements - Guidelines for Performance Improvements

This guideline standard provides guidance for continual improvement of your quality management system to benefit all parties through sustained customer satisfaction.

[ISO 9004](#)

Guidelines for Quality and/or Environmental Management Systems Auditing

Provides you with guidelines for verifying the system's ability to achieve defined quality objectives. You can use this standard internally or for auditing your suppliers. This standard now replaces ISO 14010, ISO 14011, and ISO 14012.

[ISO 19011](#)

Quality Management - Guidelines for Quality Plans

Provides guidelines to assist in the preparation, review, acceptance, and revision of quality plans.

[ISO 10005](#)

Quality Management - Guidelines to Quality in Project Management

Guidelines to help you ensure the quality of both the project processes and the project products.

[ISO 10006](#)

Quality Management - Guidelines for Configuration Management

Gives you guidelines to ensure that a complex product continues to function when components are changed individually.

[ISO 10007](#)

Guidelines for Auditing Quality Systems Set

Set includes ISO 10011-1, ISO 10011-2, and ISO 10011-3.

[ISO 10011 SET](#)

Guidelines for Auditing Quality Systems - Part 1: Auditing

[ISO 10011-1](#)

Guidelines for Auditing Quality Systems - Part 2: Qualification Criteria for Quality Systems Auditors

[ISO 10011-2](#)

Guidelines for Auditing Quality Systems - Part 3: Management of Audit Programmes

[ISO 10011-3](#)

Quality Assurance Requirements for Measuring Equipment Set

Set includes ISO 10012-1 and ISO 10012-2.

[ISO 10012 SET](#)

Quality Assurance Requirements for Measuring Equipment - Part 1: Metrological Confirmation System for Measuring Equipment

Applies to: Testing laboratories, including those providing a calibration service; suppliers of products or services; and other organizations where measurement is used to demonstrate compliance with specified requirements.

[ISO 10012-1](#)

Quality Assurance Requirements for Measuring Equipment - Part 2: Control of Measurement Process

Provides supplementary guidance on the application of statistical process control when this is appropriate for achieving the objectives of Part 1.

[ISO 10012-2](#)

Measurement Control Systems - Quality Assurance Requirements for Measuring Equipment - Part 1: Metrological Confirmation System for Measuring Equipment

Give you guidelines on the main features of a calibration system to ensure that measurements are made with the intended accuracy. (Currently in the Draft International Standard stage.)

[ISO DIS 10012](#)

Guidelines for Developing Quality Manuals

Provides guidelines for the development, and maintenance of quality manuals, tailored to your specific needs (W/D S/S By ISO TR 10013).

[ISO 10013](#)

Guidelines for Quality Management System Documentation

Provides guidelines for the development, and maintenance of quality manuals, tailored to your specific needs.

[ISO TR 10013](#)

Guidelines for Managing the Economics of Quality

Provides guidance on how to achieve economic benefits from the application of quality management.

[ISO TR 10014](#)

Quality Management - Guidelines for Training

Provides guidance on the development, implementation, maintenance, and improvement of strategies and systems for training that affects the quality of products.

[ISO 10015](#)

Guidance on Statistical Techniques for ISO 9001:1994

[ISO TR 10017](#)



Quality Management Systems - Particular Requirements for the Application of ISO 9001:2000 for Automotive Production and Relevant Service Part Organizations

Sector specific guidance to the application of ISO 9001 in the automotive industry.

[ISO TS 16949](#)

ISO 14000

ISO Standards - ISO 14000 - Environmental Management

The ISO 14000 Compendium, is a series of international, voluntary environmental management standards. Developed under ISO Technical Committee 207, the 1400 series of standards address the following aspects of environmental management: (1) Environmental Management Systems (EMS), (2) Environmental Labels and Declarations (EL), (3) Life Cycle Assessment (LCA), (4) Environmental Auditing & Related Investigations (EA&RI), (5) Environmental Performance Evaluation (EPE), and (6) The Terms and Definitions (T&D). The benefits of the ISO 14000 Compendium are as follows: (1) Assuring customers of commitment to demonstrable environmental management, (2) Obtaining insurance at reasonable cost, (3) Meeting vendor certification criteria, (4) Reducing incidents that result in liability, (5) Demonstrating reasonable care, (6) Conserving input materials and energy, (7) Facilitating the attainment of permits and authorizations, (8) Fostering development and sharing environmental solutions, and (9) Improving industry/government relations.

[ISO 14000 COMPENDIUM](#)

Includes ISO Guide 64, ISO 14001, 14004, 14010, 14011, 14012, DIS 14015, 14020, 14021, 14024, TR 14025, 14031, TR 14032, 14040, 14041, 14042, 14043, TR 14049, 14050, and TR 14061.

Environmental Management Systems - Specification with Guidance for Use

Gives requirements for an environmental management system, to enable an organization to develop a policy and objectives taking into account legislative requirements and information about significant environmental impacts.

[ISO 14001](#)

Guide to Environmental Management Systems - General Guidelines on Principles, Systems, and Supporting Techniques

Contains guidelines on the development and implementation of environmental management systems and principles, and their coordination with other management systems. The guidelines are intended for use as a voluntary, internal management tool and not to be used as EMS certification criteria.

[ISO 14004](#)

Guidelines for Environmental Auditing - General Principles (This standard now withdrawn and superseded by ISO 19011)

[ISO 14010](#)

Guidelines for Environmental Auditing - Audit Procedures - Part 1: Auditing of Environmental Management Systems (This standard now withdrawn and superseded by ISO 19011)

[ISO 14011](#)

Guidelines for Environmental Auditing - Qualification Criteria for Environmental Auditors (This standard now withdrawn and superseded by ISO 19011)

[ISO 14012](#)

Environmental Management - Environmental Assessment of Sites and Organization (EASO)

[ISO 14015](#)

Environmental Labels and Declarations - General Principles

This International Standard establishes guiding principles for the development and use of environmental labels and declarations.

[ISO 14020](#)

Environmental Labels and Declarations - Self Declared - Environmental Claims (Type II Environmental Labeling)

[ISO 14021](#)

Environmental Labels and Declarations - Type 1 Environmental Labeling - Principles and Procedures

[ISO 14024](#)

Environmental Management - Life Cycle Assessment - Goal and Scope Definition and Inventory Analysis

[ISO 14041](#)

Environmental Management - Environmental Performance Evaluation - Guidelines

[ISO 14031](#)

Environmental Management - Life Cycle Assessment - Life Cycle Impact Assessment

[ISO 14042](#)

Environmental Management - Life Cycle Assessment - Principles and Framework

[ISO 14040](#)

Environmental Management - Life Cycle Assessment - Life Cycle Impact Assessment

[ISO 14043](#)

Environmental Management - Vocabulary

(Bilingual)

[ISO 14050](#)

Guide for the Inclusion of Environmental Aspects in Product Standards

[ISO Guide 64](#)

Environmental Labels and Declarations - Type III Environmental Declarations

[ISO TR 14025](#)

Environmental Management - Examples of Environmental Performance Evaluation (EPE)

[ISO TR 14032](#)

Environmental Management - Life Cycle Assessment - Examples of Application of ISO 14041 to Goal and Scope Definition, and Inventory Analysis

[ISO TR 14049](#)

Information to Assist Forestry Organizations in the Use of the Environmental Management System Standards ISO 14001 and ISO 14004

[ISO TR 14061](#)



ISO 9000 Quality System Manual and Program

Quality System Manual "ISO 9001-2000" Policies, Objectives, Procedures, Control Forms, Work Instructions, Audit Checklists and Support Standards

[QCSS ISO 9001 MANUAL](#)

Quality System Manual "ISO 9001-2000" and Self Implementation Package

Gain ISO 9001, 9002, or 9003 certification quickly and easily with this complete and ready to implement quality system program. The program includes appropriate QS Manual, 3.5 diskette, step-by-step procedure outline, and an instruction guide on how to implement the system.

[QCSS ISO 9001 SET](#)

Quality System Manual "ISO 9002"

[QCSS ISO 9002 MANUAL](#)

Complete Q.C. Manual & Inspection System Package Per ISO 9002

[QCSS ISO 9002 SET](#)

Quality System Manual "ISO 9003"

[QCSS ISO 9003 MANUAL](#)

Complete Q.C. Manual & Inspection System Package Per ISO 9003

[QCSS ISO 9003 SET](#)

ISO Management Systems Magazine

Did you know that the ISO Management System standards are implemented by more than 430,000 organizations in 158 countries? Ensuring accuracy with the new updates in the ISO 9000 and ISO 14000 arenas is made easier when subscribing to this bimonthly publication. This mission critical product, published by ISO, is now available through Global Engineering Documents®, the retail arm of IHS.

[ISO MANAGEMENT SYS](#)

Japanese Industrial Standards (JIS)

Quality Control Handbook

[JIS QUALITY CONTROL HDBK](#)

Quality Management Systems - Fundamentals and Vocabulary

This standard describes fundamentals of quality management systems, which forms the subject of the JIS Q 9000 family, and defines related terms. This Standard is applicable to the following: a) organizations seeking advantages through the implementation of a quality management system; b) organizations seeking confidence from their suppliers that their product requirements will be satisfied; c) users of the products; d) those concerned with a mutual understanding of the terminology used in quality management; e) those internal or external to the organization who assess the quality management system or audit it for conformity with requirements of JIS Q 9000; f) those internal or external to the organization who give advice or training on the quality management system appropriate to that organization; and g) developers of related standards.

[JIS Q 9000](#)

Quality Management Systems - Requirements

This standard specifies requirements for a quality management system where an organization a) needs to demonstrate its ability to consistently provide product that meets customer and applicable regulatory requirements, and b) aims to enhance customer satisfaction through the effective application of the system, including processes for continual improvement of the system and the assurance of conformity to customer and applicable regulatory requirements.

[JIS Q 9001](#)

Quality Management Systems - Guidelines for Performance Improvements

This standard provides guidelines beyond the requirements given in JIS Q 9001 in order to consider both the effectiveness and efficiency of a quality management system, and consequently the potential for improvement of the performance of an organization. When compared to JIS Q 9001, the objectives of customer satisfaction and product quality are extended to include the satisfaction of interested parties and the performance of the organization. This standard is applicable to the processes of the organization and consequently the quality management principles on which it is based can be deployed throughout the organization. The focus of this standard is the achievement of ongoing improvement, measured through the satisfaction of customers and other interested parties. This standard consists of guidance and recommendations and is not intended for certification, regulatory or contractual use, nor as a guide to the implementation of JIS Q 9001.

[JIS Q 9004](#)

Quality Management Systems - Aerospace - Requirements

This standard includes JIS Q 9001:2000 quality management system requirements and specifies additional requirements for a quality management system for the aerospace industry. The additional aerospace requirements are shown in bold, italic text. It is emphasized that the quality management system requirements specified in this standard are complementary (not alternative) to contractual and applicable law and regulatory requirements. This Standard specifies requirements for a quality management system where an organization a) needs to demonstrate its ability to consistently provide product that meets customer and applicable regulatory requirements, and b) aims to enhance customer satisfaction through the effective application of the system, including processes for continual improvement of the system and the assurance of conformity to customer and applicable regulatory requirements.

[JIS Q 9100](#)

Quality Management and Quality Assurance Standards - Part 1: Guidelines for Selection and Use

This standard a) clarifies principal quality-related concepts and the distinctions and interrelationships among them; b) provides guidance for the selection and use of the JIS Z 9900 series of standards on quality management and quality assurance.

[JIS Z 9900](#)



Quality Systems - Model for Quality Assurance in Design, Development, Production, Installation and Servicing

This standard specifies quality system requirements for use where a supplier's capability to design and supply conforming product needs to be demonstrated. The requirements specified are aimed primarily at achieving customer satisfaction by preventing nonconformity at all stages from design through to servicing. This standard is applicable in situations when a) design is required and the product requirements are stated principally in performance terms, or they need to be established, and b) confidence in product conformance can be attained by adequate demonstration of a supplier's capabilities in design, development, production, installation and servicing.

[JIS Z 9901](#)

Quality Systems - Model for Quality Assurance in Production, Installation and Servicing

This standard specifies quality system requirements for use where a supplier's capability to supply conforming product to an established design needs to be demonstrated. The requirements specified are aimed primarily at achieving customer satisfaction by preventing nonconformity at all stages from production through to servicing. This standard is applicable in situations when a) the specified requirements for product are stated in terms of an established design or specification, and b) confidence in product conformance can be attained by adequate demonstration of a supplier's capabilities in production, installation and servicing.

[JIS Z 9902](#)

Quality Systems - Model for Quality Assurance in Final Inspection and Test

This standard specifies quality system requirements for use where a supplier's capability to detect and control the disposition of any product nonconformity during final inspection and test needs to be demonstrated. It is applicable in situations when the conformance of product to specified requirements can be shown with adequate confidence providing that certain suppliers' capabilities for inspection and tests conducted on finished product can be satisfactorily demonstrated.

[JIS Z 9903](#)

Quality Management and Quality System Elements - Part 1: Guidelines

This standard provides guidance on quality management and quality system elements. The quality system elements are suitable for use in the development and implementation of a comprehensive and effective in-house quality system, with a view to ensuring customer satisfaction. This standard is not intended for contractual, regulatory or certification use. Consequently, it is not a guideline for the implementing of JIS Z 9901, JIS Z 9902 and JIS Z 9903, ISO 9000-2 should be used for that purpose. The selection of appropriate elements contained in this standard and the extent to which these elements are adopted and applied by an organization depends upon factors such as the market being served, nature of the product, production processes, and customer needs. Reference in this standard to a "product" should be interpreted as applicable to the generic product categories of hardware, software, processed materials, or service (in accordance with the definition of "product" in ISO 8402).

[JIS Z 9904](#)

Guidelines for Auditing Quality Systems - Part 1: Auditing

This Japanese Industrial Standard establishes basic audit principles, criteria and practices, and provides guidelines for establishing, planning, carrying out and documenting audits of quality systems. It provides guidelines for verifying the existence and implementation of elements of a quality system and for verifying the system's ability to achieve defined quality objectives. It is sufficiently general in nature to permit it to be applicable or adaptable to different kinds of industries and organizations. Each organization should develop its own specific procedures for implementing these guidelines.

[JIS Z 9911-1](#)

Guidelines for Auditing Quality Systems - Part 2: Qualification Criteria for Quality Systems Auditors

This Japanese Industrial Standard gives guidance on qualification criteria for auditors. It is applicable in the selection of auditors to perform quality systems audits as recommended in JIS Z 9911-1.

[JIS Z 9911-2](#)

Guidelines for Auditing Quality Systems - Part 3: Management of Audit Programmes

This Japanese Industrial Standard gives basic guidelines for managing quality systems audit programs. It is applicable to the establishment and maintenance of an audit program management function when performing quality systems audits in accordance with the recommendations given in JIS Z 9911-1.

[JIS Z 9911-3](#)



American National Standards Institute (ANSI)



Aerial Tramways, Aerial Lifts, Surface Lifts and Tows Safety Requirements
[ANSI B77.1](#)

Hazardous Industrial Chemicals - Material Safety Data Sheets - Preparation
[ANSI Z400.1](#)

American Society of Safety Engineers (ASSE)



Occupational and Educational Eye and Face Protection
[ANSI Z87.1](#)

Safety Requirements for Confined Spaces
[ANSI Z117.1](#)

Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components
[ANSI Z359.1](#)

Safety Requirements for Workplace Floor and Wall Openings, Stairs and Railing Systems
[ANSI A1264.1](#)

ASME International (ASME)



Safety Code for Elevators and Escalators
[ASME A17.1](#)

Safety Code for Elevators and Escalators - Handbook
[ANSI A17.1 HDBK](#)

Safety Code for Existing Elevators and Escalators
[ANSI A17.3](#)

Safety Standard for Conveyors and Related Equipment
[ASME B20.1](#)

British Standards Institution (BSI) - Machine Safety



Machine Safety by BSI helps you avoid costly accidents, minimize your liability and potential hazards, as well as meet published safety requirements.

Safety Use of Machinery
[BS 5304](#)

Safety of Machinery - Basic Concepts, General Principals for Design

Basic Terminology, Methodology
[BS EN 292-1](#)

Safety of Machinery - Basic Concepts, General Principals for Design - Part 2: Technical Principles & Specifications
[BS EN 292-2](#)

Safety of Machinery - Electrical Equipment of Machines

Safety of Machinery - Electrical Equipment of Machines - Part 1: Specification for General Requirements
[BS EN 60204-1](#)

Factory Mutual Research (FM)



Factory Mutual Research approved standards are used to test products for the prevention or minimization of industrial property loss. They take into account global technology and the constantly changing needs of industry. Customers use the FM Approval diamond as a marking tool and a mark of excellence for their products. This indicates quality to potential buyers. Approved standards address the areas of fire protection and extinguishment; electrical equipment for hazardous and ordinary locations; building materials and construction evaluation; detection and signaling; and flammable liquids and combustion.

Automatic Sprinklers for Fire Protection
[FMRC 2000](#)

Electrical Equipment for use in Hazardous (Classified) Locations General Requirements
[FMRC 3600](#)

Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, and Class I, Zone 0 and 1 Hazardous (Classified) Locations
[FMRC 3610](#)

Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2, Hazardous (Classified) Locations
[FMRC 3611](#)

Explosionproof Electrical Equipment General Requirements
[FMRC 3615](#)

Clean Room Materials Flammability Test Control
[FMRC 4910](#)

Industrial Safety Equipment Association (ISEA)

Emergency Eyewash and Shower Equipment
[ANSI Z358.1](#)



Instrument Society of America (ISA)

Tree Pruning, Trimming, Repairing, Maintaining and Removing Trees and Cutting Brush - Safety Requirements
[ANSI Z133.1](#)

National Electrical Manufacturers Association (NEMA)



Safety Color Code

Contains information needed to specify colors for safety signs used in environmental and facility applications, and for accident prevention tags used to alert persons to temporary hazards.
[ANSI Z535.1](#)

Environmental and Facility Safety Signs

Contains information needed to specify formats used in environmental and facility applications.
[ANSI Z535.2](#)

Criteria for Safety Symbols

Contains information needed to specify formats and symbols for safety signs and accident prevention tags used in environmental and facility applications and for product applications.
[ANSI Z535.3](#)

Product Safety Sign and Label

Contains information needed to specify formats for safety signs used in product applications.
[ANSI Z535.4](#)

Accident Prevention Tags

Contains information needed to specify formats, colors, and symbols of safety tags used to alert persons to temporary hazards.
[ANSI Z535.5](#)

Z535 Standards for Safety Signs and Colors Set

Includes ANSI Z535.1 through ANSI Z535.5.
[ANSI Z535 SERIES](#)
[ANSI Z535 SERIES CD](#)

Safety Color Chart

For Information and Use with ANSI Z535.1 through ANSI Z535.5.
[ANSI Z535 COLOR CHART](#)

Safety Standards for Construction and Guide for Selection, Installation and Operation of Adjustable Speed Drive Systems

[NEMA ICS 7.1](#)

Safety Standards and Guide for Selection, Installation, and Use of Electric Motors and Generators

Provides recommendations for the selection, installation, and use of rotating electric machines in such a manner as to provide for the practical safeguarding of persons and property.
[NEMA MG 2](#)

Product Safety Guide for Developing Documentation for Fire Alarm Systems and Equipment

[NEMA SB 28](#)

National Fire Protection Association (NFPA)

National Electrical Code (NEC)
Please see page 33 for a complete description.
[NFPA 70](#)

National Safety Council (NSC)

Safety Requirements for Scaffolding
[ANSI A10.8](#)

Personal Protection - Protective Footwear
[ANSI Z41](#)

Outdoor Power Equipment Institute (OPEI)

Formerly known as the Portable Power Equipment Manufacturers Association (PPEMA), OPEI is the only trade association exclusively dedicated to the hand-held, outdoor power equipment industry. It is committed to the preservation of environmental quality and the safety and health of industry employees and all portable power equipment users.

Gasoline-Powered Chain Saws Safety Requirement
[ANSI B175.1](#)

Power Tools - Hand-held and Backpack, Gasoline-Engine-Powered Blowers
[ANSI B175.2](#)

Parachute Industry Association (PIA)



Global is the worldwide distributor of PIA standards. They are available in hardcopy and electronic media formats, including Internet delivery. PIA is in the process of adopting and maintaining more than 275 Military Specifications and Drawings.

Inspection Requirements, Definitions and Classifications of Defects for Parachutes
[PIA-STD-849](#)

Verification Testing of Parachute Textile Materials to all Holders of MIL-STD-1525A (USAF)
[PIA-STD-1525](#)



Standards Australia (SA)

Measurement of Occupational Health and Safety Performance - Describing and Reporting Occupational Injuries and Disease (Known as the National Standard for Workplace Injury and Disease Recording)

[SAA AS 1885.1](#)

Workplace Injury and Disease Recording Standard - Resource Kit

[SAA MP58](#)

The Association for Manufacturing Technology (AMT)



Safety Requirements, Construction, Care and Use of Mechanical Power Presses

[ANSI B11.1](#)

Safeguarding When Referenced by Other B11 Machine Tool Safety Standards - Performance Criteria for the Design, Construction, Care and Operation

[ANSI B11.19](#)

Manufacturing Systems/Cells - Safety Requirements for Construction, Care and Use

[ANSI B11.20](#)

Technical Report: Risk Assessment and Risk Reduction - A Guide to Estimate, Evaluate and Reduce Risks Associated with Machine Tools

[ANSI B11 TR3](#)

The Institute of Electrical & Electronics Engineers, Inc. (IEEE)



National Electrical Safety Code (NESC)

Please see page 51 for a complete description.

[IEEE C2](#)

[NESC CD](#)

A Discussion of the National Electrical Safety Code (NESC)

Please see page 51 for a complete description.

[NESC HANDBOOK](#)

NESC, NESC Handbook and NESC CD

[IEEE NESC & NESC HDBK CD](#)



Alliance for Telecommunications Industry (ATIS)

Information Interchange - Coded Representation of the North American Telecommunications Industry Manufacturers, Suppliers, and Related Service Companies

This standard provides the coding specifications for representing the names of North American Telecommunications Manufacturers, Suppliers, and Related Service Companies for the purpose of efficient information exchange. This standard contains clauses covering its scope and purpose, definitions, coding specifications, and maintenance agent duties.

[ATIS T1.220](#)

Telecom Glossary 2000

The purpose of this standard is to aid interdisciplinary technical communications, and to disseminate the advances in communications technologies benefiting users, vendors, researchers, and developers. Additionally, this standard provides an authoritative source of definitions for standards developers, teachers, technical writers, and all who are active in the telecommunications field.

[ATIS T1.523](#)

Alliance for Telecommunications Industry Solutions (ATIS)

Specifications and Dimensions (for Wood Poles)

Consists of specifications and dimensions for wood poles that are to be given preservative treatment as specified by the purchaser. The poles described are considered as simple cantilever members subject to transverse loads only. Requirements for the preservative treatment of poles are not included.

[ANSI O5.1](#)

Digital Hierarchy Electrical Interfaces

This revised standard describes the electrical interfaces for the DS1, DS1C, DS2, and DS3 levels of the North American digital telecommunications hierarchy. Compliance with this standard is necessary to achieve satisfactory interworking of the telecommunications network. This revision of the standard includes requirements on essential electrical characteristics measured at the interface, and specifies four additional signals; DS1A, DS4NA, STS-1, and STS-3. The electrical interface for the DS1A (2048) signal has been included to aid in interworking between networks using the North American hierarchy and those using the 2048 kbits/s hierarchy. Frame structure specifications that were previously included are now found in related standards. This standard defines the interface signal and is not intended to be an equipment specification. Accordingly, equipment and cable requirements that were previously listed in the body of the standard have been moved to informative annexes.

[ATIS T1.102](#)

Telecommunications - Synchronous Optical Network (SONET) - Basic Description Including Multiplex Structure, Rates, and Formats

This document is the baseline of a series of standards that define a modular family of rates and formats available for use in interfaces generally referred to as SONET. This series of documents is identified by the T1.105 prefix. This document (ANSI T1.105-1995) describes a base rate and format along with a multiplexing scheme. Other characteristics described in this standard are: layering of overhead, definitions of function and position of overhead, frequency justification, scrambling, conditions for setting overhead values, and a standardized set of payload carrying envelopes. As an aid to the reader, a mapping is provided between SONET and SDH terminology. Any differences between the SDH and SONET specifications at the time of approval of this standard which affect interworking are highlighted.

[ATIS T1.105](#)

Information Interchange - Representation of National Security Emergency Preparedness (NSEP) Telecommunications Service Priority

This standard provides the specifications, characteristics, and values of the National Security/Emergency Preparedness (NS/EP) - Telecommunications Service Priority (TSP) code. The TSP System is a Federal Communications Commissions system which superseded FCC National Communications System (NCS) Restoration Priority (RP) System. This standard contains sections covering its purpose and scope, code representation, allowable code values, and relative importance of activities associated with services having NSEP TSP designations.

[ATIS T1.211](#)

Information Interchange - Coded Representation of the North American Telecommunications Industry Manufacturers, Suppliers, and Related Service Companies

This standard provides the coding specifications for representing the names of North American Telecommunications Manufacturers, Suppliers, and Related Service Companies for the purpose of efficient information exchange. This standard contains clauses covering its scope and purpose, definitions, coding specifications, and maintenance agent duties.

[ATIS T1.220](#)

Operations, Administration, Maintenance and Provisioning (OAM&P) Security Framework for Telecommunications Management Network (TMN) Interfaces

This standard is a part of a series of American National Standards that specifies the interface requirements for the Telecommunications Management Network (TMN). This series specifies the use of Open System Interconnection (OSI) protocols and information models for exchanging management information across the TMN interface. This standard defines the guidelines and considerations to be used in implementing OSI security related to the interfaces and communications required to manage the various Operations, Administration, Maintenance, and Provisioning (OAM&P) functions in a TMN.

[ATIS T1.233](#)



Telecommunications - Operations, Administration, Maintenance and Provisioning (OAM&P) - Baseline Security Requirements for the Telecommunications Management Network (TMN)

This standard specifies the minimum security features that a TMN should provide in order to reduce the risk of security compromises within a TMN or with another TMN with which it interacts over an X-interface. These security features should, in effect, permit the secure interconnection of TMNs, so that one TMN would not have to communicate with another TMN whose security features are not known. Indeed, in the absence of such a baseline of security features, intrusions into one TMN may compromise the security of other TMNs. This baseline implies specific security requirements on internal interfaces and other components of the TMN which have a major bearing on the security of the network.

[ATIS T1.243](#)

Telecommunications - Operations, Administration, Maintenance and Provisioning (OAM&P) - Extension to Generic Network Information Model for Interfaces Between a Service Provider Administrative System and Network Elements for (Lawfully Authorized Electronic Surveillance) and Network Elements

This standard specifies information models and functional requirements for the interface between Network Elements (NEs) and a Service Provider Administrative System for Lawfully Authorized Electronic Surveillance (LAES). The network reference model defining the interface is specified in document J-STD-025 Dated December 12, 1997. This standard describes a Service Provider Telecommunications Management Network (TMN) specific configuration management information model (object models and related Operations, Administration, Maintenance, and Provisioning (OAM&P) services) needed to administer the establishment of a law enforcement surveillance. This version contains a set of managed object classes applicable to all services and a specific subset of managed object classes, their attributes and associated services to support the provisioning of NEs.

[ATIS T1.260](#)

Fire Resistance Criteria - Part I: Ignitability Requirements for Equipment Assemblies, and Fire Spread Requirements for Interconnection Wire and Cable Distribution Assemblies

This standard defines ignitability requirements and tests for measuring ignitability under controlled laboratory conditions for telecommunications equipment operated in a network equipment facility. The ignitability criteria apply specifically to the various components that comprise telecommunications equipment assemblies, and the fire spread criteria apply to wire and cable. Although compliance with the standard does not guarantee fire safety or fire resistance, its judicious use may limit the frequency of fire ignition in energized telecommunications equipment and the spread of fire in wire and cable assemblies.

[ATIS T1.307](#)

DC Power Systems - Telecommunications Environment Protection

This is a protection standard for the design and installation of telecommunications DC power systems in a controlled or limited-access area. This standard is applicable to the design, engineering, installation, and acceptance of centralized DC power systems. This is the only national standard specifically intended for the acceptance of such systems.

[ATIS T1.311](#)

Network to Customer Installation Interfaces - Analog Voicegrade Switched Access Lines Using Loop-Start and Ground Start Signaling

This standard provides requirements for loop-start and ground-start signaling for the analog voicegrade interface between carrier switched access lines and customer installations. These requirements are intended to assist carriers, manufacturers, and users of products to be used in the switched network to understand the characteristics of the existing networks.

[ATIS T1.401](#)

Telecommunications - Network-to-Customer Installation - DS1 Metallic Interface

This standard provides the requirements for a DS1 metallic interface, referred to as the network interface (NI), for a network-to-customer installation (CI). Requirements include electrical characteristics, format parameters, and physical characteristics at the NI. This standard provides NI compatibility information and is not meant to be an equipment specification.

[ATIS T1.403](#)

Telecommunications - Interface Between Carriers and Customer Installations - Analog Voicegrade Enhanced 911 Switched Access Using Network-Provided Reverse-Battery Signaling

This standard provides analog interface requirements for the interconnection of Customer Installations (CIs), such as Private Branch Exchanges, to Enhanced 911 systems. The analog interface allows the CI to transmit the caller's emergency service identification information to an Enhanced 911 system in applications where multiple terminals share Enhanced 911 switched access. These requirements are intended to assist carriers, end-users, and manufacturers.

[ATIS T1.411](#)

Telecommunications - Network to Customer Installation Interfaces Enhanced 911 Analog Voicegrade PSAP Access Using Loop Reverse-Battery Signaling

This standard provides network-to-customer installation interface requirements for analog voicegrade Enhanced 911 switched access to a Public Safety Answering Point (PSAP) customer installation (CI). The interface allows a user of the Enhanced 911 System to communicate with PSAP CI and allows the Enhanced 911 switching system to transmit the caller's emergency service identification information to the PSAP CI. These requirements are intended to assist carriers, end-users, and manufacturers.

[ATIS T1.414](#)

Spectrum Management for Loop Transmission Systems

This standard provides spectrum management requirements and recommendations for the administration of services and technologies that use metallic subscriber loop cables. Spectrum management is the administration of the loop plant in a way that provides spectral compatibility for services and technologies that use pairs in the same cable. In order to achieve spectral compatibility, the ingress energy that transfers into a loop pair, from services and transmission system technologies on other pairs in the same cable, must not cause an unacceptable degradation of performance. In addition, the egress energy from a particular loop pair must not transfer into other pairs in a manner that causes an unacceptable degradation in the performance of services and technologies on those pairs. This standard includes signal power limits and technology deployment guidelines for digital subscriber line spectrum management classes. It also provides a generic analytical method to determine spectral compatibility.

[ATIS T1.417](#)



Telecom Glossary 2000

The purpose of this standard is to aid interdisciplinary technical communications, and to disseminate the advances in communications technologies benefiting users, vendors, researchers, and developers. Additionally, this standard provides an authoritative source of definitions for standards developers, teachers, technical writers, and all who are active in the telecommunications field.

[ATIS T1.523](#)

Building Industry Consulting Service International (BICSI)

[BICSI TELECOMMUNICATIONS](#)

BICSI

BICSI was developed as a result of a recognized need for mutual understanding of building telecommunications requirements. BICSI and the Telecommunications Industry Association (TIA) work together, in that TIA establishes guidelines for the telecommunications infrastructure, while BICSI provides information that shows how to implement the guidelines.



Cable Installation Manual

BICSI's Cable Installation Manual is the ideal job function-related reference manual for telecommunications cabling installers. Based on the latest industry standards and codes, the manual provides cabling installation personnel with guidelines (including appropriate "how to" information) necessary to perform specific tasks of their job.

[BICSI CABLE INSTALLATION](#)

Customer-Owned Outside Plant Design Manual

BICSI's Customer-Owned Outside Plant Design Manual is written for the individual who designs and maintains the outside plant infrastructure in a campus environment. It provides a comprehensive overview of the components or outside plant design and acts as a refresher course for those with previous outside plant design experience.

[BICSI CO-OSP DESIGN MANUAL](#)

Customer Owned Outside Plant Design Manual

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Network Design Reference Manual

More than 300 illustrations, tables, and examples make this manual a "must have" guide for the telecommunications professional. Design methodologies for the physical layer of local area networks are fully covered. The 2nd edition references the latest technologies – Gigabit Ethernet, Dedicated Token-ring, HIPPI, SCI, and SBCON, contains Standards-compliant configuration guidelines for LAN design, discusses the International Cabling Standard ISO/IEC 11801, and contains additional discussions about networking technologies.

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Extremely valuable to telecommunications infrastructure designers of commercial and multi-family residential buildings the Telecommunications Distribution Methods Manual (TDMM), provides a comprehensive overview of telecommunications distribution, from design through construction, installation, and maintenance.

[BICSI TELECOMMUNICATIONS](#)

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Communications Standard Review (CSR)

The Communications Standard Review (CSR) has developed the following journals to assist in communications product planning and specification.

Communications Standards Summary (CSS) Annual Subscription

Reports the status of all TIA-TR committee active projects and recently completed standards. CSS is a TIA-authorized publication. Includes 4 issues annually.

[CSR-CSS](#)

Communications Standard Review (CSR) Annual Subscription

Reports on US (TIA) and International (ITU-T) standards committee meetings in WAN data communications for wireline. Includes 8-9 Issues.

[CSR-T](#)

European Telecommunications Standards Institute (ETSI)



European Telecommunications Standards Institute

The mission of ETSI is to provide common standards for Europe, linking networks and services, and ensuring interoperability of equipment on a European basis.

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Part 1-1: Classification of Environmental Conditions Storage

[ETS 300 019-1-1](#)

Part 1-3: Classification of Environmental Conditions Stationary use at Weather Protected Locations

[ETS 300 019-1-3](#)

Equipment Engineering (EE); Power Supply Interface at the Input to Telecommunications Equipment Interface - Part 2: Interface Operated by Direct Current (DC)

[ETS 300 132-2](#)



Electromagnetic Compatibility and Radio Spectrum Matters (ERM) Telecommunication Network Equipment; Electromagnetic Compatibility (EMC) Requirements; Part 2: Product Family Standard

[ETSI EN 300 386-2](#)

Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) Standard for Radio Equipment and Services; Part 1: Common Technical Requirements

[ETSI EN 301 489-1](#)

Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) Standard for Radio Equipment and Services; Part 3: Specific Conditions for Short-Range Devices (SRD) Operating on Frequencies Between 9 KHz and 40 GHz

[ETSI EN 301 489-3](#)

Information Handling Sevices (IHS)



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This CD-ROM collection provides standards from ANSI, EIA, IEEE, ITU-T, ITU-R, TIA, and UL. Telecom systems is the comprehensive toolkit for telecom systems engineers. This collection provides access to the standards that drive the delivery of data and voice transmissions across network and telephony systems.

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Premises Wiring & Safety Standards Collection

This CD-ROM collection provides standards from ASTM, CSA, EIA, ICEA, IEEE, ISO, ITU-T, TIA, and UL that drive the design, development, installation and maintenance of safe, reliable telecom infrastructure cable and wiring systems.

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Institute of Electrical & Electronics Engineers, Inc. (IEEE)

National Electrical Safety Code (NESC)

Covers basic provisions for safeguarding of persons from hazards arising from the installation, operation or maintenance of conductors and equipment in electrical supply stations, as well as overhead and underground electric supply and communication lines and equipment.

[IEEE C2](#)

The Institute of Electrical & Electronics Engineers, Inc. (IEEE)



National Electrical Safety Code (NESC)

Covers basic provisions for safeguarding of persons from hazards arising from the installation, operation or maintenance of conductors and equipment in electrical supply stations, as well as overhead and underground electric supply and communication lines and equipment.

[IEEE C2](#)

Insulated Cable Engineers Association (ICEA)



Short Circuit Characteristics of Insulated Cable

[ICEA P-32-382](#)

Short Circuit Performance of Metallic Shields and Sheaths on Insulated Cable

[ICEA P-45-482](#)

Weather Resistant Polyethylene Covered Conductors

[ICEA S-70-547](#)

Fiber Optic Premises Distribution Cable Technical Requirements

[ICEA S-83-596](#)

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Standard for Concentric Neutral Cables Rated 5,000 - 46,000 Volts

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ICEA S-97-682

International Organization for Standardization (ISO)

Information Technology - Generic Cabling for Customer Premises

Specifies the generic cabling requirements, covering balanced and optical fiber cabling, for use within premises, which may include a single or multiple buildings on a campus.

ISO/IEC 11801

International Organization for Standardization (ISO)



Information Technology - Open Systems Interconnection - Basic Reference Model: The Basic Model

ISO/IEC 7498-1

Information Processing Systems - Open Systems Interconnection - Basic Reference Model - Part 2: Security Architecture

ISO/IEC 7498-2

Information Technology - Open Systems Interconnection - Network Layer Security Protocol

ISO/IEC 11577

Information Technology - Generic Cabling for Customer Premises

Specifies the generic cabling requirements, covering balanced and optical fiber cabling, for use within premises, which may include a single or multiple buildings on a campus.

ISO/IEC 11801

Information Technology - Implementation and Operation of Customer Premises Cabling - Part 1: Administration

ISO/IEC 14763-1

Information Technology - Security Techniques - Evaluation Criteria for IT Security - Part 1: Introduction and General Model

ISO/IEC 15408-1

Information Technology - Code of Practice for Information Security Management

ISO/IEC 17799

Information Technology - Pathways and Spaces for Customer Premises Cabling

ISO/IEC 18010

Information Technology - Guidelines for the Management or IT Security - Part 5: Management Guidance on Network Security

ISO/IEC TR 13335-5

Information Technology - Implementation and Operation of Customer Premises Cabling - Part 2: Planning and Installation of Copper Cabling

ISO/IEC TR 14763-2

International Telecommunication Union (ITU)



The International Telecommunication Union (ITU) is an intergovernmental organization, within which the public and private sectors cooperate for the development of telecommunications and the harmonization of national telecommunication policies. The ITU adopts international regulations and treaties governing all terrestrial and space uses of the frequency spectrum and develops standards to ensure the interconnection of telecommunications systems on a worldwide scale regardless of the type of technology used. It also fosters the development of telecommunications in developing countries. It is, since 1947, the United Nations' specialized agency for telecommunications.

Radiocommunication Sector (ITU-R)

Studio Encoding Parameters of Digital Television for Standard 4:3 and Wide-Screen 16:9 Aspect Ratios

ITU-R BT.601

Interfaces for Digital Component Video Signals in 525-Line and 625-Line Television Systems Operating at the 4:2:2 Level of Recommendation ITU-R BT.601 (Part A)

ITU-R BT.656

Parameter Values for the HDTV Standards for Production and International Programme Exchange

ITU-R BT.709

Ionospheric Propagation Data and Prediction Methods Required for the Design of Satellite Service and Systems

ITU-R P.531

Telecommunications Standardization Sector (ITU-T)

Series G: Transmission System and Media, Digital Systems and Networks; Digital Transmission Systems - Terminal Equipments - General; Physical/Electrical Characteristics of Hierarchical Digital Interfaces

This recommendation specifies the recommended physical and electrical characteristics of the interfaces at hierarchical bit rates as described in ITU-T Recs. G.702 (PDH) and G.707 (SDH). The interfaces are defined in terms of general characteristics, specifications at the output ports and input ports and/or cross-connect points, earthing of outer conductor or screen and coding rules.

ITU-T G.703



Asymmetric Digital Subscriber Line (ADSL) Transceivers
[ITU-T G.992.1](#)

Splitterless Asymmetric Digital Subscriber Line (ADSL) Transceivers
[ITU-T G.992.2](#)

Optical Interfaces for Equipments and Systems Relating to the Synchronous Digital Hierarchy
[ITU-T G.957](#)

Resistibility to Telecommunication Switching Equipment to Overvoltages and Overcurrents
[ITU-T K.20](#)

National Electrical Manufacturers Association (NEMA)

Performance Standard for Category 6 and Category 7 100 Ohm Shielded and Unshielded Twisted-Pair Cables

Defines minimum electrical performance and allowable conductor sizes, stranding, and shielding for premise wiring cables for voice and data applications for 100 ohm shielded and unshielded twisted pair cables. Approved as an American National Standard and adopted by the Department of Defense.

[NEMA WC 66](#)

National Electrical Manufacturers Association (NEMA)



Electrical and Electronic PTFE (Polytetrafluoro-Ethylene) Insulated High Temperature Hook-Up Wire; Types ET (250 Volts), E (600 Volts) and EE (1000 Volts)

Covers specific requirements for PTFE (polytetrafluoroethylene) insulated solid and stranded wire, designed for the internal wiring of high reliability electrical and electronic equipment.

[NEMA HP 3](#)

Electrical and Electronic FEP (Fluorinated Ethylene Propylene) Insulated High Temperature Hook-Up Wire, Types KT (250 Volt), K (600 Volt), and KK (1000 Volt)

Covers specific requirements for fluorinated ethylene propylene (FEP) insulated solid and stranded wire, designed for the internal wiring of high reliability electrical and electronic equipment.

[NEMA HP 4](#)

Magnet Wire

Definitions, type designations, dimensions, construction, performance, and methods of testing magnet wire generally used in the winding of coils for electrical equipment. Approved as an American National Standard.

[NEMA MW 1000](#)

Digital Imaging and Communications in Medicine (DICOM)

Please see page 86 for a complete description.

[NEMA PS 3 SET](#)

[NEMA PS 3 SET CD](#)

Digital Imaging and Communications in Medicine (DICOM) Part 1: Introduction and Overview

Please see page 86 for a complete description.

[NEMA PS 3.1](#)

Digital Imaging and Communications in Medicine (DICOM) Part 2: Conformance

Please see page 86 for a complete description.

[NEMA PS 3.2](#)

Digital Imaging and Communications in Medicine (DICOM) Part 3: Information Object Definitions

Please see page 86 for a complete description.

[NEMA PS 3.3](#)

Digital Imaging and Communications in Medicine (DICOM) Part 4: Service Class Specifications

Please see page 86 for a complete description.

[NEMA PS 3.4](#)

Digital Imaging and Communications in Medicine (DICOM) Part 5: Data Structures and Encoding

Please see page 86 for a complete description.

[NEMA PS 3.5](#)

Digital Imaging and Communications in Medicine (DICOM) Part 6: Data Dictionary

Please see page 86 for a complete description.

[NEMA PS 3.6](#)

Digital Imaging and Communications in Medicine (DICOM) Part 7: Message Exchange

Please see page 87 for a complete description.

[NEMA PS 3.7](#)

Digital Imaging and Communications in Medicine (DICOM) Part 8: Network Communication Support for Message Exchange

Please see page 87 for a complete description.

[NEMA PS 3.8](#)

Digital Imaging and Communications in Medicine (DICOM) Part 10: Media Storage and File Format for Media Interchange

Please see page 87 for a complete description.

[NEMA PS 3.10](#)

Digital Imaging and Communications in Medicine (DICOM) Part 11: Media Storage Application Profiles

Please see page 87 for a complete description.

[NEMA PS 3.11](#)

Digital Imaging and Communications in Medicine (DICOM) Part 12: Media Formats and Physical Media for Media Interchange

Please see page 87 for a complete description.

[NEMA PS 3.12](#)

Digital Imaging and Communications in Medicine (DICOM) Part 14: Grayscale Standard Display Function

Please see page 87 for a complete description.

[NEMA PS 3.14](#)

Digital Imaging and Communications in Medicine (DICOM) Part 15: Security Profiles

Please see page 87 for a complete description.

[NEMA PS 3.15](#)

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Abstracts taken from information provided by vendor.



Digital Imaging and Communications in Medicine (DICOM)

Part 16: Content Mapping Resource

Please see page 87 for a complete description.

[NEMA PS 3.16](#)

Binational Wire and Cable Packaging Standard

Covers uniform requirements for packaging electrical wire and cable for the North American wire and cable industry.

[NEMA WC 26](#)

Performance Standard for Twisted-Pair Premise Voice and Data Communications Cables

Defines minimum electrical performance characteristics, material, and mechanical specifications of premise wiring cables for voice and data applications. Definitions and applicable test methods are included. Adopted by the U.S. Department of Defense as an alternative non-government standard.

[NEMA WC 63.1](#)

Performance Standard for Coaxial Premise Data Communications Cable

Defines minimum electrical performance characteristics, material, and mechanical specifications of premise wiring cables for data applications. Definitions and applicable test methods are included. Approved as an American National Standard and adopted by the U.S. Department of Defense as an alternative non-government standard.

[NEMA WC 63.2](#)

Performance Standard for Category 6 and Category 7 100 Ohm Shielded and Unshielded Twisted-Pair Cables

Defines minimum electrical performance and allowable conductor sizes, stranding, and shielding for premise wiring cables for voice and data applications for 100 ohm shielded and unshielded twisted pair cables. Approved as an American National Standard and adopted by the Department of Defense.

[NEMA WC 66](#)

National Fire Protection Association (NFPA)



National Electrical Code (NEC)

Please see page 33 for a complete description.

[NFPA 70](#)

[NFPA 70 \(LL\)](#)

[NFPA 70 CD](#)

National Electrical Code (NEC) Handbook

Please see page 50 for a complete description.

[NFPA 70 HDBK](#)

[NFPA 70 HDBK CD](#)

[NFPA 70 HDBK CD Set](#)

National Electrical Code (NEC) Handbook & NFPA 70

Please see page 33 for a complete description.

[NFPA 70 Set](#)

[NFPA 70 Set \(LL\)](#)

[NFPA 70 SET CD](#)

Society of Cable Telecommunications Engineers (SCTE)

IPcablecom Part 1: Architecture Framework for the Delivery of Time-Critical Services Over Cable Television Networks Using Cable Modems

This document provides the architectural framework that will enable cable television operators to provide time critical services over their networks that have been enhanced to support cable modems.

[SCTE 24-1](#)

Society of Cable Telecommunications Engineers (SCTE)

DOCSIS 1.0 Part 1: Radio Frequency Interface

This document defines the radio-frequency interface specifications for high-speed data-over-cable systems. They were developed by Cable Television Laboratories (CableLabs) for the benefit of the cable industry, including contributions by operators and vendors from North America, Europe, and other regions.

[SCTE 22-1](#)

DOCSIS 1.0 Part 3: Operations Support System Interface

This document outlines the Management Information Bases (MIBs) for high-speed data-over-cable systems.

[SCTE 22-3](#)

DOCSIS 1.1 Part 1: Radio Frequency Interface

This document defines the radio-frequency interface specifications for high-speed data-over-cable systems. They were developed for the benefit of the cable industry, including contributions by operators and vendors from North America, Europe, and other regions.

[SCTE 23-1](#)

IPcablecom Part 1: Architecture Framework for the Delivery of Time-Critical Services Over Cable Television Networks Using Cable Modems

This document provides the architectural framework that will enable cable television operators to provide time critical services over their networks that have been enhanced to support cable modems.

[SCTE 24-1](#)

Host-POD Interface

This standard defines the characteristics and normative specifications for the interface between Point of Deployment (POD) security modules owned and distributed by cable operators, and commercially available consumer receivers and set-top terminals ("Host devices") that are used to access multi-channel television programming carried on North American cable systems. These Host devices may also be supplied by the cable operators. The combination of a properly-authorized POD module and a Host device permits the unscrambled display of cable programming that is otherwise protected by a conditional access scrambling system.

[SCTE 28](#)



Test Method for AC to DC Power Supplies

To characterize, document and define test methods for AC to DC power supplies. These tests involve the measurement of AC input parameters and DC output parameters. The application of uniform test methods for power supplies will allow fair performance comparisons to be made between different power supplies.

[SCTE 46](#)

Methods for Asynchronous Data Transport

This proposal represents transmission format for the carriage of asynchronous data services, compatible with digital multiplex bitstreams constructed in accordance with ISO/IEC 13818-1 (MPEG-2 Systems).

[SCTE 53](#)

Digital Video Service Multiplex and Transport System for Cable Television

This document describes the transport layer characteristics and normative specifications of the in-band Service Multiplex and Transport System Standard for Cable Television.

[SCTE 54](#)

Digital Broadband Delivery System: Out of Band Transport Part 1: Mode A

The intention of this document is to provide a contribution whose scope is limited to the physical layer specification for Out-Of-Band cable system.

[SCTE 55-1](#)

Telcordia Technologies

Telcordia Technologies, formerly Bellcore, plays a developmental role in the telecommunications infrastructure within the U.S. and influences the telecommunications infrastructure around the globe. Telcordia is currently a leader in the development of the network software and associated services that allow IP networks to operate efficiently on a large scale and interconnect with both PSTN and the new IP-based networks.

Generic Requirements for Single-Mode Optical Fiber Connectors

[TELCORDIA GR-326-CORE](#)

Electromagnetic Compatibility and Electrical Safety Generic Criteria for Network Telecommunication Equipment (A Module of LSSGR, FR-64 and TSGR, FR-440)

[TELCORDIA GR-1089-CORE](#)

Contains GR-1089-ILR Update 11B

Network Equipment-Building System (NEBS) Requirements: Physical Protection (A Module of LSSGR, GR-64, TSGR, FR-440 and NEBS FR, FR-2063)

[TELCORDIA GR-63](#)

Generic Requirements for Multi-Fiber Optical Connectors

[TELCORDIA GR-1435-CORE](#)

Lawful Access Feature: Switching Generic Requirements

[TELCORDIA GR-2973](#)

Generic Requirements for Network Element/Network System (NE/NS) Security

[TELCORDIA GR-815](#)

Synchronous Optical Network (SONET) Transport Systems: Common Generic Criteria

[TELCORDIA GR-253-CORE](#)

LATA Switching Systems Generic Requirements (LSSGR): Public Safety

[TELCORDIA GR-529](#)

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[TELECOM/ELECTRO INDUSTRY TRENDS](#)

Telecommunications Industry Association (TIA)

CDMA 2000 Series

This series, which is better known as the CDMA 2000 series, has been prepared to map the capabilities in TIA standards that have been developed to support CDMA 2000 Phase 1 operation to the major requirements upon which that development was based. The technical requirements contained in CDMA 2000 form a capability standard for 800 MHz cellular mobile telecommunications systems and 1.8 and 2.0 GHz Code Division Multiple Access (CDMA) Personal Communications Services (PCS) systems. They ensure that a mobile station can obtain service in a cellular or PCS system manufactured in accordance with the cdma2000 standards.

[TIA/EIA/IS-2000 SERIES](#)

Interface Between Data Terminal Equipment and Data Circuit-Terminating Equipment Employing Serial Binary Data Interchange

This document is applicable to the interconnection of data terminal equipment (DTE) and data circuit-terminating equipment (DCE) employing binary data interchange.

[TIA/EIA-232](#)

Fiber Optic Test Procedures (FOTPs)

These Fiber Optic Test Procedures (FOTPs) were developed to provide uniform procedures for testing Fiber Optic system components for optical communications and data transmission systems. The procedures standardize the method of establishing the light losses and junction efficiency for conformance to individual component requirements. The procedures are applicable for both single fiber and multiple fiber (Bundle) devices.

[EIA-455 SERIES](#)

Please call for listing of individual standards contained in this series. Each is also available separately.



Telecommunications Industry Association (TIA)



TIA is a full-service national trade organization with a membership of over 625 large and small companies which provide communications and information technology products, materials, systems, distribution services and professional services in the United States and countries around the world. TIA represents the telecommunications industry in association with the Electronic Industries Alliance. Global can provide you with all TIA standards, specifications, bulletins and publications, as well as journals provided by Communications Standards Review (CSR), and other standards-writing divisions.

Antennas

Structural Standards for Steel Antenna Towers and Antenna Supporting Structures

The objective of this document is to provide minimum criteria for specifying and designing steel antenna towers and antenna supporting structures. This standard is not intended to supersede applicable codes. The information contained in this standard was obtained from sources as referenced and noted herein and represents, in the judgement of the subcommittee, the accepted industry practices for minimum standards for the design of steel antenna supporting structures. This document contains a county by county listing of minimum basic wind speeds, as well as, a commentary on ice and other design criteria. It is for general information only.

[TIA/EIA-222](#)

Electrical and Mechanical Characteristics of Earth Station Antennas for Satellite Communications

This document provides standard terms, definitions, and concepts for the mechanical and RF design of earth station antennas, and to offer a standard methodology for the verification of RF performance compatible with current technology and test equipment.

[TIA/EIA-411](#)

Cellular - Analog

Mobile Station - Base Station Compatibility Standard

The technical requirements contained in this document form a compatibility standard for cellular mobile telecommunication systems. Their purpose is to ensure that a mobile station can obtain service in any cellular system. These requirements do not address the quality or reliability of that service, nor do they cover equipment performance or measurement procedures.

[TIA/EIA-553](#)

TIA/EIA Telecommunications Building Wiring Standards Collection

This premier collection of standards provides you with all of the information needed to plan, design, ground, and install a telecommunications system in a commercial or residential building. These standards will help you establish performance and technical criteria for various cabling configurations. They also specify cable components, transmission performance, system models and the measurement procedures needed for verification of balanced twisted pair and optical fiber cabling systems. Using these standards during the initial planning and construction will allow you to build a telecommunications system that will support a multi-product, multi-vendor environment which will save you significant time and money.

[TIA/EIA WIRING STANDARDS](#)

Recommended Minimum Standards for 800 MHz Cellular Subscriber Units

This document details definitions, methods of measurement, and minimum performance characteristics for 800 MHz Cellular Subscriber Units.

[TIA/EIA-690](#)

Recommended Minimum Standards for 800 MHz Cellular Base Stations

This document details definitions, methods of measurement and minimum performance characteristics of 800 MHz cellular base stations. These standards share the purpose of the Cellular System Mobile Station-Land Station Compatibility Specification TIA/EIA-553 of assuring that cellular systems in conjunction with their base-station equipment provide service to any subscriber unit that meets the compatibility requirements of TIA/EIA-553.

[TIA/EIA-712](#)

Base Station - Mobile Station Compatibility Specification for 800 MHz Cellular, Auxiliary, and Residential Services

This document forms a compatibility standard for a cellular radio telecommunications system. Its purpose is to ensure that a mobile station can obtain service in any cellular system manufactured according to this interim standard.

[TIA/EIA/IS-91](#)

Cellular - CDMA

Mobile Station-Base Station Compatibility Standard for Wideband Spread Spectrum Cellular Systems

This document defines the requirements for a PCS/Cellular system and mobile and base stations using Code Division Multiple Access (CDMA) technology while also maintaining compatibility with AMPS analog technology.

[TIA/EIA-95](#)

Recommended Minimum Performance Standard for Base Stations Supporting Dual-Mode Spread Spectrum Cellular Mobile Stations

This document details definitions, methods of measurement and minimum performance requirements for 800 MHz cellular base stations supporting wideband spread spectrum, dual-mode mobile stations. This standard shares the purpose of IS-95, "Mobile Station - Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System," (and subsequent revisions thereof) by ensuring that a mobile station can obtain service in any cellular system.

[TIA/EIA-97](#)



Recommended Minimum Performance Standards for Dual-Mode Spread Spectrum Mobile Stations

This document details definitions, methods of measurement and minimum performance characteristics of 800 MHz cellular mobile stations. This standard shares the purpose of IS-95 (and subsequent revisions thereof) by ensuring that a mobile station can obtain service in any cellular system that meets the capability requirements of IS-95.

[TIA/EIA-98](#)

Short Message Service for Spread Spectrum Systems

This document allows the exchange of short messages between a mobile station and the wireless system, and between the wireless system and an external device capable of transmitting and optionally receiving short messages. The external device may be a voice telephone, a data terminal or a short message entry system.

[TIA/EIA-637](#)

Over-the-Air Service Provisioning of Mobile Stations in Spread Spectrum Systems

This document describes Over-the-Air Service Provisioning in CDMA and analog systems. The procedures defined are intended to be extendable and flexible enough to be used with future air interface specifications. The procedures in this document do not require support for continuation of the service provisioning process following a CDMA-to-analog handoff.

[TIA/EIA-683](#)

Signaling Conformance Tests for CDMA 2000 Spread Spectrum Systems

This document facilitates interoperability testing between CDMA infrastructure and CDMA mobile station manufacturers.

[TIA/EIA-898](#)

Enhanced Variable Rate Codec, Speech Service Option 3 for Wideband Spread Spectrum Digital Systems

This document describes the technical requirements for Service Option 3, an enhanced variable rate, two-way speech service option, known as Enhanced Variable Rate Codec (EVRC). Service Option 3 conforms to the general requirements for service options specified in IS-95A and ANSI J-STD-008. A mobile station operating in wideband spread spectrum (CDMA) mode conforming with IS-95A or J-STD-008 and this document can obtain speech service in any cellular system conforming with this family of standards. This document does not address the quality or reliability of Service Option 3, nor does it cover equipment performance or measurement procedures.

[TIA/EIA/IS-127](#)

Data Service Options for Wideband Spread Spectrum Systems

This document describes data services available on wideband spread spectrum systems. It is organized into a series of related recommendations, some of which address functions common to all code division multiple access data services, and others which describe a specific data service.

[TIA/EIA/IS-707](#)

Minimum Performance Standard for the Enhanced Variable Rate Codec, Speech Service Option 3 for Spread Spectrum Digital Systems

This document details definitions, methods of measurement, verification of bit-exactness and minimum performance characteristics of IS-127 Enhanced Variable-rate Speech Codecs for Digital Cellular Spread Spectrum Mobile Stations and Base Stations. This standard shares the purpose of the most current editions of IS-98 and IS-97. This is to ensure that a mobile station can obtain service in any cellular system that meets the compatibility requirements of IS-95.

[TIA/EIA/IS-718](#)

Position Determination Service Standard for Dual Mode Spread Spectrum Systems

This document defines a set of signaling messages between the mobile station and base station to provide a position determination service.

[TIA/EIA/IS-801](#)

CDMA 2000 High Rate Packet Data Air Interface Specification

This specification is primarily oriented toward requirements necessary for the design and implementation of access terminals.

[TIA/EIA/IS-856](#)

CDMA 2000 Series

This series has been prepared to map the capabilities in TIA standards that have been developed to support CDMA 2000 Phase 1 operation to the major requirements upon which that development was based. The technical requirements contained in CDMA 2000 form a capability standard for 800 MHz cellular mobile telecommunications systems and 1.8 and 2.0 GHz Code Division Multiple Access (CDMA) Personal Communications Services (PCS) systems. They ensure that a mobile station can obtain service in a cellular or PCS system manufactured in accordance with the cdma2000 standards.

[TIA/EIA/IS-2000 SERIES](#)

[TIA/EIA/IS-2000 SERIES CD](#)

Cellular - Digital Packet Data

Cellular Digital Packet Data System Specification Series

This collection consists of 44 parts. Individual parts are available for purchase. Please call for pricing.

[TIA/EIA-732 SET](#)

Cellular - General

MSC-BS Interface for Public Wireless Communications Systems

This document describes the overall system functions, including services and features required for interfacing a Base Station (BS) with the Mobile Switching Center (MSC). This document provides an understanding of the BS-MSC interface. Establishing a standard MSC-BS Interface allows the BS and MSC equipment to evolve independently and to be provided by multiple vendors.

[TIA/EIA-634](#)

Tandem Free Operation (TFO)

This service description document details the Inband Signaling Protocol between Transcoder/Rate Adapter Units (TRAU) for speech traffic channels for the Tandem Free Operation (TFO) of Speech Codecs, sometimes also termed "Vocoder Bypass".

[TIA/EIA-829](#)



Cellular - Intersystem Standards

Cellular Radiotelecommunications Intersystem Operations

This document identifies those cellular services that require intersystem cooperation, to present the general background against which those services are to be provided, and to summarize the principal considerations which have governed and directed the particular approaches taken in the procedural recommendations.

[TIA/EIA-41](#)

Wireless Telecommunications Ai-Di Interfaces Standard

The purpose of this document is to enable the Cellular Carrier and an Exchange Carrier, Interexchange Carrier, International Carrier, Consolidated Carrier, or other carrier to provide interconnecting equipment that operates compatibly. This document provides signaling protocol requirements for the interface located between a Cellular Carrier Network and an EC, IC, INC, Consolidated Carrier or other carrier network.

[TIA/EIA-93](#)

Wireless Radio Telecommunications Intersystem Non-Signaling Data Communication DMH (Data Message Handler)

This document describes the procedures and messages necessary to provide to wireless service providers nonsignaling data communications requiring interaction between different wireless systems.

[TIA/EIA-124](#)

Cellular Features Description

This document presents a recommended plan for the implementation of Uniform Features for use in the Cellular Radiotelephone Service. Its intent is to describe services and features so that the manner in which a subscriber may place calls using such features and services may remain reasonably consistent from system to system.

[TIA/EIA-664](#)

IS-41-C Enhancements for Circuit Mode Services

This telecommunication service allows digital wireless subscribers to send and receive asynchronous data. ADS provides functionality similar to a wireline modem in that the data is modified to make it suitable for transporting over the appropriate medium. Both wireless and wireline media are accommodated to support interworking between the two networks in a way that is transparent to the terminal equipment. The subscriber's terminal equipment interfaces to a conventional DCE data port. The far-end DCE interworks each end function as if connected to a compatible device. ADS is applicable to data telecommunication services. ADS is applicable to voice services in those cases where a voice call is made prior to a user initiated voice to data service change.

[TIA-737](#)

Cellular Radiotelecommunications Intersystem Operations - Over-the-Air Service Provisioning (OTASP) & Parameter Administration (OTAPA)

This document includes a Stage-1 recommendation for Over-the-Air Service Provisioning (OTASP) subscriber feature description, provides intersystem operation recommendations for supporting the OTASP capability for the CDMA and TDMA air interfaces with Stage-2 operations, scenarios and Stage-3 operations and parameter definitions, plus Stage-3 procedures.

[TIA/EIA/IS-725](#)

Wireless Intelligent Network

This document outlines operational procedures and modifications for

[TIA/EIA-664](#)

[TIA/EIA/IS-771](#)

WIN Pre-Paid Charging

Pre-paid charging (PPC) allows the subscriber to pay for voice telecommunication services prior to usage. This document presents a recommended plan for the implementation of Wireless Intelligent Network (WIN) capabilities that support PPC for use in the Wireless Radiotelephone Service.

[TIA/EIA/IS-826](#)

Cellular - TDMA

TDMA Third Generation Wireless Standards

[TIA/EIA-136 SERIES](#)

Telecommunications - Telephone Terminal Equipment - Type 2 Caller Identity Equipment Performance Requirements

This document addresses the technical issues associated with Type 2 Caller Identity Customer Premise Equipment (CPE) for services such as Calling Identity Delivery on Call Waiting which uses Off-Hook signaling with data frames packaged in Multiple Data Message Format (MDMF).

[TIA/EIA-777](#)

TDMA Cellular/PCS - Radio Interface - Minimum Performance Standards for Discontinuous Transmission Operation of Mobile Stations

This document specifies the procedures to be employed to verify that implementations of VAD processing in conjunction with the IS-641 DTX/CNG feature to meet strict minimum performance requirements.

[TIA/EIA/IS-727](#)

Data Interchange Transmission Equipment

Interface Between Data Terminal Equipment and Data Circuit-Terminating Equipment Employing Serial Binary Data Interchange

This document is applicable to the interconnection of data terminal equipment (DTE) and data circuit-terminating equipment (DCE) employing binary data interchange.

[TIA/EIA-232](#)

Electrical Characteristics of Balanced Voltage Digital Interface Circuits

Specifies the electrical characteristics of the balanced voltage digital interface circuit normally implemented in integrated circuit technology.

[TIA/EIA-422](#)

Electrical Characteristics of Generators and Receivers for Use in Balanced Digital Multipoint Systems

Specifies the electrical characteristics of generators and receivers that may be employed when specified for the interchange of binary signals in multipoint interconnection of digital equipment. When implemented within the guidelines of this document, multiple generators and receivers may be attached to a common interconnecting cable.

[TIA/EIA-485](#)

High Speed 25-Position Interface for Data Terminal Equipment and Data Circuit-Terminating Equipment, Including Alternative 26-Position Connector

This document is applicable to the interconnection of data terminal equipment (DTE) and data circuit-terminating equipment (DCE) employing serial binary data interchange with control information exchanged on separate control circuits. It defines signal characteristics; interface mechanical characteristics; and, functional description of interchange circuits.

[TIA/EIA-530](#)



Electrical Characteristics of Low Voltage Differential Signaling (LVDS) Interface Circuits

This document specifies low voltage differential signaling (LVDS) generators and receivers capable of operating at data signaling rates up to 655 Mbit/s, devices may be designed for data signaling rates less than 655 Mbit/s, 100 Mbit/s for example, when economically required for that application.

[TIA/EIA-644](#)

Fiber Optics - Connectors, Specifications

Fiber Optic Connector Intermateability Standards

This document, together with its addenda, provides standards for the intermateability of fiber connectors. Each addendum to this document is a Fiber Optic Connector Intermateability Standard (FOCIS) for a particular type or design of fiber optic connector. The intermateability requirements in a FOCIS apply to mating optical components such as connector plugs, adapters, and receptacles. The intermateability requirements in a FOCIS are to be for completed product. For example, for a connector plug the requirements are to be the requirements for the plug mounted with the fiber installed and ready to use.

[TIA/EIA-604](#)

Call for pricing and availability for all FOCIS Standards.

Fiber Optics - General

100 Mbit Physical Layer Medium Dependent Sublayer and 10 Mbit Auto-Negotiation on 850 nm Fiber Optics

This document specifies the 100BASE-X-PMD (including MDI) and fiber optic medium for a short wavelength, multimode fiber, 100BASE-SX.

[TIA/EIA-785](#)

Fiber Optics - Optical Fiber Systems Testing

Standard Test Procedures for Fiber Optic Systems

These documents provide uniform test procedures for testing all or part of fiber optic systems or subsystems intended for optical communications and data transmission use.

[TIA/EIA-526 SERIES](#)

Please call for listing of individual standards contained in this series. Each is also available separately.

Fiber Optics - Test Procedures (FOTPs)

Fiber Optic Test Procedures (FOTPs)

These Fiber Optic Test Procedures (FOTPs) were developed to provide uniform procedures for testing Fiber Optic system components for optical communications and data transmission systems. The procedures standardize the method of establishing the light losses and junction efficiency for conformance to individual component requirements. The procedures are applicable for both single fiber and multiple fiber (Bundle) devices.

[EIA-455 SERIES](#)

Please call for listing of individual standards contained in this series. Each is also available separately.

Land Mobile Communications - Equipment

Land Mobile FM or PM Communications Equipment Measurement and Performance Standards

This document provides definitions, method of measurements and performance standards for radio equipment used in the Private (Dispatch) Land Mobile Services that employ FM or PM modulation, for transmission of voice or data using analog or digital techniques, with a frequency of 1 GHz or less.

[TIA/EIA-603](#)

Wireless Communications Systems - Performance in Noise and Interference-Limited Situations - Recommended Methods for Technology-Independent Modeling, Simulation, and Verification

The purpose of this document is to define and advance a scientifically sound standardized methodology for addressing technology compatibility. This document provides a formal structure and quantitative technical parameters from which automated design and spectrum management tools can be developed based on proposed configurations that may temporarily exist during a migration process or for longer term solutions for systems that have different technologies.

[TIA/EIA TSB 88](#)

Land Mobile Communications - Private Radio (APCO/PROJECT 25/102 Series)

Telecommunications, Land Mobile Communications (APCO/Project 25)

This series is a combination of all documents and bulletins (TSB) which are related to APCO/Project 25.

[TIA/EIA 102 SERIES](#)

Please call for listing of individual standards contained in this series. Each is also available separately.

Surveillance

Lawfully Authorized Electronic Surveillance

This document defines the interfaces between a telecommunications service provider (TSP) and a law enforcement agency (LEA) to assist the LEA in conducting lawfully authorized electronic surveillance.

[TIA/EIA/IS-J-STD-025](#)

Lawfully Authorized Electronic Surveillance (CALEA)

This standard defines the interfaces between a telecommunication service provider (TSP) and a law enforcement agency (LEA) to assist the LEA in conducting lawfully authorized electronic surveillance. A TSP, manufacturer, or support service provider that is in compliance with this standard will have a "safe harbor" under Section 107 of the Communications Assistance for Law Enforcement Act (CALEA), Public Law 103-414.

[J-STD-025](#)



Telephones/Terminal Equipment - Part 68 (FCC) Guidelines

Telecommunications - Telephone Terminal Equipment - Technical Requirements for Connection of Terminal Equipment to the Telephone Network

This document specifies technical criteria for terminal equipment approved in accordance with 47 CFR 68 for direct connection to the public switched telephone network, including private line services provided over wireline facilities owned by providers of wireline telecommunications.

[TIA/EIA/IS-968](#)

Part 68 Rationale and Measurement Guidelines

This document covers test procedures, test equipment and guidelines for determining compliance with the technical requirements of Part 68 of the Federal Communications Commission's (FCC) Rules and Regulations. Part 68 contains the minimum technical standards that customer premises equipment (CPE) must meet in order to be directly connected to the telephone network. These rules specify those technical standards necessary to assure that CPE will not cause harm to the telephone network. The technical standards of Part 68 cover four broad categories of network harm: (1) Limitations to voltages or other signals that could be harmful to telephone company equipment or craftpersons; (2) Limitations to maximum signal power applied to the network to avoid interference with other telephone network services and users; (3) Limitations to longitudinal imbalance which may cause crosstalk interferences in the wire cable plant; and (4) Limitations to CPE functions that can interfere with the operation of telephone companies' billing equipment.

[TIA/EIA TSB 31](#)

Telephones/Terminal Equipment - PBX

Requirements for Private Branch Exchange (PBX) Switching Equipment

This document establishes performance and technical criteria for interfacing and connecting with the various elements of public and private telecommunications networks. Compliance with these requirements should assure quality service.

[TIA/EIA-464](#)

Telephones/Terminal Equipment - Telephones

Telecommunications - Telephone Equipment Terminal Equipment - Performance and Compatibility Requirements for Telephone Sets with Loop Signaling

This document provides performance and compatibility requirements for telephone sets intended for direct tip and ring connection to central office (CO) or private branch exchange (PBX) lines.

[TIA/EIA-470](#)

Wiring/Cabling

TIA/EIA Telecommunications Building Wiring Standards Collection

This premier collection of standards provides you with all of the information needed to plan, design, ground, and install a telecommunications system in a commercial or residential building. These standards will help you establish performance and technical criteria for various cabling configurations. They also specify cable components, transmission performance, system models and the measurement procedures needed for verification of balanced twisted pair and optical fiber cabling systems. Using these standards during the initial planning and construction will allow you to build a telecommunications system that will support a multi-product, multi-vendor environment which will save you significant time and money.

[TIA/EIA WIRING STANDARDS](#)

[TIA/EIA WIRING CD](#)

[TIA/EIA WIRING CD RENEWAL](#)

Network pricing available. Call for details.

The collection contains the standards listed below. Each is available for purchase individually or save when you buy the set.

Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant - OFSTP-7

The intent of this test procedure is to ensure that meaningful data describing the optical loss performance of installed single-mode cable plant can be obtained. It is not intended for component testing, nor does it define those elements of an installation that must be measured. The document that invokes this procedure shall establish the requirements for installation, maintenance, repair, and conformance testing.

[TIA/EIA-526-7](#)

Optical Power Loss Measurement of Installed Multimode Fiber Cable Plant - OFSTP-14A

The intent of this document is to establish preferred measurement principles and practices to assure that meaningful data describing the optical loss performance of installed cable plant can be obtained. It is not intended for component testing, nor does it define those elements of an installation that must be measured. Establishment of requirements for installation, maintenance, repair, or conformance testing is left to the specifier of this test method.

[TIA/EIA-526-14](#)

Commercial Building Telecommunications Cabling Standards - Part 1: General Requirements

Specifies a generic telecommunications cabling system for commercial buildings that will support a multi-product, multi-vendor environment.

[TIA/EIA-568-1](#)

Commercial Building Telecommunications Cabling Standards - Part 2: Balanced Twisted-Pair Cabling Components

Specifies cabling components, transmission, system models, and the measurement procedures needed for verification of balanced twisted-pair cabling.

[TIA/EIA-568-2](#)

Optical Fiber Cabling Components Standard

Specifies the component and transmission requirements for an optical fiber cabling system (e.g., cable, connectors).

[TIA/EIA-568-3](#)



Commercial Building Standard for Telecommunications Pathways and Spaces

This document encompasses telecommunications considerations both within and between buildings. The aspects covered are the pathways into which telecommunications media are placed, and the rooms and areas associated with the building used to terminate media and install telecommunications equipment.

[TIA/EIA-569](#)

Residential Telecommunications Cabling Standard

This document standardizes requirements for residential telecommunications cabling. These requirements are based on the facilities that are necessary for existing and emerging telecommunications services.

[TIA/EIA-570](#)

Optical Fiber Cable Color Coding

This document defines the recommended identification scheme or system for individual fibers, fiber units, or a group of fiber units within a cable structure. May be used to identify appropriate fibers for the purpose of connecting and terminating within a communications system or topography of long haul, feeder routs, subscriber, or distribution applications for on premises and outside plant use.

[TIA/EIA-598](#)

Administration Standard for the Telecommunications Infrastructure of Commercial Buildings

The purpose and intent of this document is to provide a uniform administration scheme that is independent of applications, which may change several times throughout the life of a building. This standard establishes guidelines for owners, end users, manufacturers, consultants, contractors, designers, installers, and facilities administrators involved in the administration of the telecommunications infrastructure or related administration system.

[TIA/EIA-606](#)

Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications

The purpose of this standard is to enable the planning, design, and installation of telecommunications grounding and bonding systems within a building with or without prior knowledge of the telecommunications systems that will subsequently be installed. This standard also provides recommendations for grounding and bonding of customer owned towers and antennas. This telecommunications grounding and bonding infrastructure supports a multivendor, multiproduct environment as well as various system installation practices.

[J-STD-607](#)

Customer-Owned Outside Plant Telecommunications Cabling Standard

This document provides requirements used in the design of the telecommunication pathways and spaces, and the cabling installed between buildings or points in a customer-owned campus environment. Customer-owned campus facilities are typically termed "outside plant" (OSP). For the purpose of this standard, they are termed "Customer-owned OSP".

[TIA/EIA-758](#)

Commercial Building Telecommunications Cabling Standards Set

Includes: Part I: General Requirements, Part II: Balanced Twisted-Pair Cabling Components, and Part III: Optical Fiber Cabling Components Standard.

[TIA/EIA-568 SET](#)

The Institute of Electrical & Electronics Engineers, Inc. (IEEE)



National Electrical Safety Code (NESC)

Covers basic provisions for safeguarding of persons from hazards arising from the installation, operation or maintenance of conductors and equipment in electrical supply stations, as well as overhead and underground electric supply and communication lines and equipment.

[IEEE C2](#)
[NESC CD](#)

A Discussion of the National Electrical Safety Code (NESC)

The NESC Handbook pulls together facts, figures, and explanations that help you effectively implement the code.

[NESC HANDBOOK](#)

NESC and NESC Handbook Set

Includes the Code and the Handbook.

[IEEE NESC AND NESC HDBK](#)

IEEE LAN/MAN 802 Standards

IHS offers the complete collection of the 802 Series LAN/MAN Standards via the Internet. With regular update notification of new and revised standards by e-mail and free download of documents online, this collection gives you continuous access to the most popular 802 series technical standards. Includes all of the following: Overview & Architecture (802); LAN/MAN Bridging & Management (802.1); Conformance Test Methodology for IEEE (802.3); Logical Link Control (802.2); CSMA/CD Access Method (802.3); Token-Passing Bus Access Method (802.4); Token-Ring Access Method (802.5); DQDB Access Method (802.6); Broadband LAN (802.7); Integrated Services (802.9); LAN/MAN Security (802.10); Wireless (802.11); and Demand Priority Access Method (802.12).

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[IHS SN120](#)

Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer

[IEEE 802.3](#)

Includes 802.3AB, 802.3AC, and 802.3AD.

Standard for Interoperable LAN/MAN Security (SILS)

[IEEE 802.10](#)

Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications

[IEEE 802.11](#)

Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - High Speed Physical Layer in the 5 GHz Band

[IEEE 802.11A](#)

Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Higher Speed Physical Layer Extension in the 2.4 GHz Band

[IEEE 802.11B](#)

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Abstracts taken from information provided by vendor.



Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Amendment 3: Specification for Operation in Additional Regulatory Domains

[IEEE 802.11D](#)

Electromagnetic Compatibility Radiated Emission Measurements in Electromagnetic Interference (EMI) Control Calibration of Antennas

[IEEE C63.5](#)

Underwriters Laboratories Inc. (UL)



Information Technology and Business Equipment

UL Set 14 includes UL 1012, UL 1459, and UL 60950. Order the complete set of standards and save over the price of the individual documents.

[UL SET 14](#)

Power Units Other than Class 2

[UL 1012](#)

Telephone Equipment

[UL 1459](#)

Safety of Information Technology Equipment

[UL 60950](#)

Wire and Cables Flammability Tests

UL Set 19 includes UL 1581 and UL 1685. Order the complete set of standards and save over the price of the individual documents.

[UL SET 19](#)

Reference Standard for Electrical Wires, Cables, and Flexible Cords

[UL 1581](#)

Vertical-Tray Fire-Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables

[UL 1685](#)

Test for Flame Propagation Height of Electrical and Optical-Fiber Cables Installed Vertically in Shafts

[UL 1666](#)

Transportation Management Systems



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[AUTOMOTIVE INDUSTRY TRENDS](#)

National Electrical Manufacturers Association (NEMA)



Traffic Control Systems (Not Recommended for New Designs)

Defines traffic signaling equipment used to facilitate and expedite the safe movement of vehicular and pedestrian traffic. This standard has been reaffirmed to make it available for support of legacy traffic control equipment. For new equipment installations, the use of TS 2, "Traffic Controller Assemblies with NTCIP Requirements," is recommended.

[NEMA TS 1](#)

Traffic Controller Assemblies with NTCIP Requirements

Defines a performance-oriented standard for traffic signaling equipment used to facilitate and expedite the safe movement of vehicular and pedestrian traffic. Also includes requirements for equipment compliance with the National Transportation Communications Protocol (NTCIP) standards when installed.

[NEMA TS 2](#)

NTCIP Transit Data Dictionaries Set

Contains NTCIP 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, and 1408.

[NTCIP 1400 SET](#)

National Transportation Communications for ITS Protocol (NTCIP)

NTCIP standards are jointly developed and maintained by AASHTO (American Association of State Highway and Transportation Officials); ITE (Institute of Transportation Engineers); and NEMA (National Electrical Manufacturers Association). These standards provide both the rules for communicating (called protocols) and the vocabulary (called objects) necessary to allow electronic traffic control equipment from different manufacturers to operate with each other as a system, thus reducing the need for reliance on specific equipment vendors and customized one-of-a-kind software.

Simple Transportation Management Framework

Describes the simple transportation management framework used for managing and communicating information between management stations and transportation devices. Covers integrated management of transportation networks, networking devices, and transportation-specific equipment attached to NTCIP-based networks.

[NTCIP 1101](#)

Global Object Definitions

Covers common object definitions supported by NTCIP compliant devices, including actuated signal controllers and variable message signs.

[NTCIP 1201](#)

Object Definitions for Actuated Traffic Signal Controller Units

This NTCIP Device Data Dictionary Standard defines the data elements and conformance requirements for Actuated Traffic Signal Controller Units. It defines requirements that are applicable to all NTCIP Actuated Traffic Signal Controller Units and it also contains optional and conditional clauses that are applicable to specific environments for which they are intended. The data elements are defined using the Simple Network Management Protocol (SNMP) object-type format as defined in RFC1212 and would typically be exchanged using one of the NTCIP-recognized Application Layers (e.g. SNMP).

[NTCIP 1202](#)

Object Definitions for Dynamic Message Signs (DMS)

This NTCIP Device Data Dictionary Standard defines the data elements and conformance requirements for Dynamic Message Signs. It defines requirements that are applicable to all NTCIP Dynamic Message Signs and it also contains optional and conditional clauses that are applicable to specific environments for which they are intended. The data elements are defined using the Simple Network Management Protocol (SNMP) object-type format as defined in RFC1212 and would typically be exchanged using one of the NTCIP-recognized Application Layers (e.g. SNMP).

[NTCIP 1203](#)

Object Definitions for Environmental Sensor Stations (ESS)

Provides definitions of data elements for use with environmental sensor stations (ESS).

[NTCIP 1204](#)

Object Definitions for Closed Circuit Television (CCTV) Camera Control

Limited to the functionality related to CCTV Camera Control within a transportation environment. Defines objects which are specific to CCTV and also defines standardized object groups which can be used for conformance statements.

[NTCIP 1205](#)

Object Definitions for Ramp Meter Control (RMC) Units

Limited to the functionality related to RMCs used within a transportation environment. The limits and descriptions of the parameters are established to give users maximum flexibility to operate devices that exist now or in the future.

[NTCIP 1207](#)

NTCIP Roadside Device Data Dictionaries Set

[NTCIP 1200 SET](#)

NTCIP Transit Data Dictionaries Set

Contains NTCIP 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, and 1408.

[NTCIP 1400 SET](#)

TCIP Framework Standard

Covers the data needs of the functions related to the support of Public Transportation operations, service, and planning. This includes all input and output data needed for Fare Collection; Scheduling/Runcutting; Passenger Information; Incident Management; Vehicle On-board; Transit Control Center; and Traffic Management.

[NTCIP 1400](#)

Transportation Management Systems



Standard on Common Public Transportation (CPT) Objects

Describes the set of infrastructure (fixed and rolling) data such as vehicles, employees, facilities, and assets for common public transportation objects.

[NTCIP 1401](#)

Standard on Incident Management (IM) Objects

Covers the data needs related to detecting, verifying, prioritizing, responding to, and clearing unplanned events (such as accidents, weather conditions, crimes, etc.) that affect transit operations.

[NTCIP 1402](#)

Standard on Passenger Information (PI) Objects

Covers the data needs related to providing passengers and potential passengers with the information for planning and making trips using public transportation, including input data associated with traveler preferences, estimated time of arrival, and published schedules.

[NTCIP 1403](#)

Standard on Scheduling/Runcutting (SCH) Objects

Covers the data needs of the functions related to scheduling and runcutting, including all input data needed to develop the master schedule, trip sheet, run guides, paddles, and inventory files.

[NTCIP 1404](#)

Standard on Spatial Representation (SP) Objects

Provides other transit business areas with a vocabulary and formats for representing common attributes for referencing objects in space.

[NTCIP 1405](#)

Standard on On-Board (OB) Objects

The on-board domain covers the data needs of the functions related to on-board applications. This includes all data needed for the communications between on-board components within a public transportation vehicle and other transit applications. The data objects defined in this specification are critical to transit agencies because they provide information (such as AVL information) for vehicle performance monitoring and transit operations.

[NTCIP 1406](#)

Standard on Control Center (CC) Objects

The control center domain covers the data needs of the functions related to control center applications. The control center functions span various components and systems within transportation and operations.

[NTCIP 1407](#)

Standard on Fare Collection (FC) Business Area Objects

The fare collection domain covers the data needs for the functions related to fare policies, and selling, collection, processing, and accounting of fares from passengers. The business area also includes data needs related to the monitoring and maintenance of equipment related to the selling, collection, and processing of fare media.

[NTCIP 1408](#)

National Transportation Communications for ITS Protocol - Class B Profile

A communications protocol standard for interconnecting transportation and traffic control equipment. It establishes a common method of interconnecting ITS field equipment, such as traffic controllers and variable message signs (VMS), defines the protocol and procedures for establishing communications between those components, and references common data sets to be used by all such equipment.

[NTCIP 2001](#)

Point to Multi-Point Protocol using RS-232

Subnetwork Profile

A communications protocol standard for interconnecting transportation and traffic control equipment. It establishes a common method of interconnecting ITS field equipment, such as traffic controllers and variable message signs (VMS), defines the protocol and procedures for establishing communications between those components, and references common data sets to be used by all such equipment.

[NTCIP 2101](#)

Point to Multi-Point Protocol Using FSK Modem

Subnetwork Profile

Applicable to transportation related devices that must operate in a typical primary/secondary configuration where one device is the designated primary while one or more other devices are connected to one channel acting as secondaries. As a subnetwork profile, it specifies a set of protocols and standards applicable to the data link and physical layers of the OSI Reference Model.

[NTCIP 2102](#)

Internet (TCP/IP and UDP/IP) Transport Profile

Applies to transportation devices and management systems that must operate in Intelligent Transportation Systems. As a transport profile, it specifies a set of protocols and standards applicable to the transport and network layers of the ISO-OSI Reference Model.

[NTCIP 2202](#)

Simple Transportation Management Framework Application Profile

Applies to transportation devices and management systems that must operate in an Intelligent Transportation System.

[NTCIP 2301](#)

Trivial File Transfer Protocol Application Profile

Applies to traffic control and transportation related devices that must operate in an Intelligent Transportation System.

[NTCIP 2302](#)

File Transfer Protocol Application Profile

Applies to traffic control and transportation devices concerned with operating in an Intelligent Transportation System. As an NTCIP application profile, it specifies a set of protocols and standards for the application, presentation, and session layers of the ISO-OSI Reference Model.

[NTCIP 2303](#)

Profile Framework

Applies to traffic control and transportation related devices which must operate in an Integrated Transportation System. Develops the terminology, content, structure, and organization of standardized profiles.

[NTCIP 8003](#)

Complete Set of National Transportation Communications for ITS Protocol (NTCIP) Standards

[NTCIP COMPLETE SET](#)

Transportation Management Systems



SAE International (SAE)



Listed below are SAE standards that are referenced in the NCTIP documents.

Joint SAE/TMC Recommended Environmental Practices For Electronic Equipment Design (Heavy-Duty Trucks)

The climatic, dynamic, and electrical environments from natural and vehicle-induced sources that influence the performance and reliability of vehicle and tractor/trailer electronic components, are included in this SAE recommended practice. Test methods that can be used to simulate these environmental conditions are also included. This information is applicable to diesel power trucks in Classes 6, 7, and 8.

[SAE J1455](#)

Electronic Data Interchange Between Microcomputer Systems in Heavy-Duty Vehicle Applications

This SAE recommended practice defines a document for the format of messages and data that is of general value to modules on the data communications link. Included are field descriptions, size, scale, internal data representation, and position within a message. This document also describes guidelines for the frequency of and circumstances in which messages are transmitted.

[SAE J1587](#)

(R) Serial Data Communications Between Microcomputer Systems In Heavy Duty Vehicle Applications

This SAE recommended practice defines a recommended practice for implementing a bi-directional, serial communication link among modules containing microcomputers. This document defines those parameters of the serial link that relate primarily to hardware and basic software compatibility such as interface requirements, system protocol, and message format. The actual data to be transmitted by particular modules, which is an important aspect of communications compatibility, is not specified in this document. These and other details of communications link implementation and use should be specified in the separate application documents referenced in Section 2.

[SAE J1708](#)

Location Referencing Message Specification

The LRMS is intended to provide a practical approach to standardization for location referencing within a mixed data set environment, i.e., where more than one kind of spatial data set exists, and where spatial references between these data sets must be made. Although some ITS applications in local areas may be satisfied by having one common data set—for which location references may be implemented in any number of ways—many ITS applications will have broad interoperability requirements within the nation or a region.

[SAE J2374](#)

The Institute of Electrical & Electronics Engineers, Inc. (IEEE)



Standard for Message Sets for Vehicle/Roadside Communications

Those characteristics of a dedicated short-range communications (DSRC) system that are independent of the Physical and Data Link Layers (ISO model Layers 1 and 2) are specified. The required and optional features of the roadside equipment (RSE) and the onboard equipment (OBE) are specified. In addition, the Applications Layer (ISO model Layer 7) services and protocols, the RSE resource manager, the corresponding OBE command interpreter, and the application-specific messages are all specified. Standard supports and guidelines are provided for implementing secure DSRC systems.

[IEEE 1455](#)

Standard for Message Set Template for Intelligent Transportation Systems

The expanding use of digital communications among subsystems of the transportation infrastructure has spawned the development of message sets for the communications between these subsystems. A format for Intelligent Transportation System (ITS) message sets, including common terms (e.g., object identifier), as well as attributes necessary to document ITS data messages, is addressed in this standard.

[IEEE 1488](#)

Standard for Data Dictionaries for Intelligent Transportation Systems - Part 1: Functional Area Data Dictionaries

The expanding use of digital communications among subsystems of the transportation infrastructure has spawned the development of data dictionaries for the communications between these subsystems. A format for Intelligent Transportation System (ITS) data dictionaries, including common terms (e.g., time, date, location), as well as meta-attributes necessary to document ITS data concepts is addressed in this standard.

[IEEE 1489](#)

Standard for Common Incident Management Message Sets for Use by Emergency Management Centers

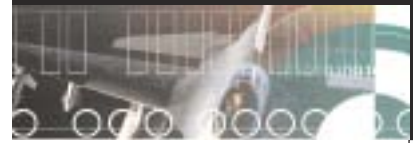
This standard addresses the exchange of vital data about transportation-related incidents among emergency management centers through common incident management message sets. Message sets specified are consistent with the National Intelligent Transportation Systems Architecture and are described using Abstract Syntax Notation One syntax. This standard comprises the base standard of a family of incident management standards; specific incident management message sets for traffic, public safety, and HAZMAT centers may be found in forthcoming companion volumes which build upon and augment this base standard.

[IEEE 1512](#)

Standard for Hazardous Material Incident Management Message Sets for Use by Emergency Management Centers

This standard addresses the exchange of vital data about hazardous material and other cargo and contents of vehicles and buildings involved in transportation-related events, through common incident management message sets. That data exchange is specifically to support real-time interagency transportation-related incident management. Message sets specified are consistent with the National Intelligent Transportation Systems Architecture and are described using Abstract Syntax Notation One ("ASN.1") syntax.

[IEEE 1512.3](#)



Code of Federal Regulations (CFR)

From the Office of the Federal Register. Global stocks the complete multi-volume collection of the CFR and Index. The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the Federal Government of the United States. It is divided into 50 titles which represent broad areas of subject to Federal regulations. Subjects include: Energy, Commerce and Foreign Trade, Customs Duties, Food and Drug, Foreign Relations, Labor, Protection of Environments, Telecommunication, and Transportation.

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Commerce and Foreign Trade

The Secretary of Commerce acting through the Director of the National Institute of Standards and Technology (NIST) implemented the Fastener Quality Act (the Act). The Act protects the public safety by: requiring that certain fasteners which are sold in commerce conform to the specifications to which they are represented to be manufactured; providing for accreditation of laboratories engaged in fastener testing; requiring inspection, testing; and certification in accordance with standardized methods of fasteners covered by the Act. The regulation also establishes, within the patent and Trademark Office (PTO), a recordation to identify the manufacturers or distributors of covered fasteners to ensure that the fasteners may be traced to their manufacturers or private label distributors. In addition, the regulations contain provisions on enforcement, civil penalties, and hearing and appeal procedures.
[15 CFR 0-299](#)
[15 CFR 300-799](#)
[15 CFR 800-END](#)

Commercial Practices
[16 CFR 0-999](#)
[16 CFR 1000-END](#)

Commodity and Securities Exchanges
[17 CFR 1-199](#)
[17 CFR 200-239](#)
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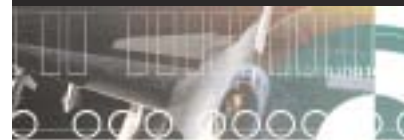
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21 CFR 800-1299

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28 CFR 43-END

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31 CFR 200-END

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32 CFR 800-END

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33 CFR 125-199
33 CFR 200-END

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34 CFR 300-399

Education

34 CFR 400-END

Panama Canal

35 CFR

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36 CFR 1-199
36 CFR 200-299
36 CFR 300-END

Patents, Trademarks, and Copyrights

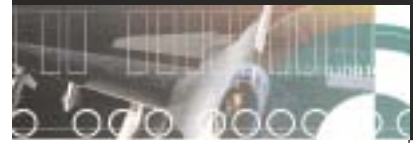
37 CFR

Pensions, Bonuses, and Veterans' Relief

38 CFR 0-17
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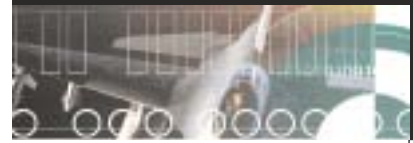
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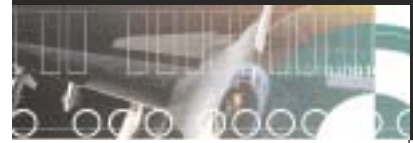
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[AWS D1.4](#)

Structural Welding Code - Stainless Steel

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Guide for the Visual Examination of Welds

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[AWS D14.1](#)

Railroad Welding Specification - Cars and Locomotives

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[AWS D15.1](#)

Specification for Fusion Welding For Aerospace Applications

Seventy-eight pages, 14 tables, 47 figures, 5 annexes, including "Guidelines for Design, Analysis, and Fabrication of Weld Joints," and Commentary. Metric (SI) equivalents provided. ANSI Approved.

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Specification for Welding of Austenitic Stainless Steel Tube and Pipe Systems in Sanitary (Hygienic) Applications

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Guide to Weld Discoloration Levels on Inside of Austenitic Stainless Steel Tube

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Covers preparation of aluminum for welding, tips and troubleshooting, typical procedures for groove and fillet welds in aluminum alloys with argon shielding, aluminum filler metal properties (as-welded condition) and guide to selection of filler metal for general purpose welding. Thirty pages, 3-1/2in. x 6in., spiral bound. (Note: Pocket Handbooks must be purchased in quantities of four.)

[AWS PHB-8](#)



Specification for Welding Procedure and Performance Qualification

This universal qualification document is an excellent tool to ensure economical quality. Covers all welding processes and an exhaustive array of materials used in metal fabrication. Indispensable for those who design and manufacture non-code products but who may also be performing to ISO 9000. Experience shows Specification for Welding Procedure and Performance Qualification adapts to the requirements of ISO 9000. Spells out requirements for the qualification of welding procedures and the requirements for the performance qualification of welders and welding operators for manual, semiautomatic, machine, and automatic welding.

[AWS B2.1](#)

Brazing Procedure and Performance Qualification

This standard provides the requirements for qualification of brazing procedure specifications, brazers, and brazing operators for manual, mechanized, and automatic brazing. Includes torch, furnace, induction, resistance, dip, and infrared brazing. Base metals, brazing filler metals, brazing fluxes, brazing atmospheres, and brazing joint clearances are also included, 45 pages. ANSI Approved, Department of Defense Adopted.

[AWS B2.2](#)

American Welding Society (AWS)

Structural Welding Code - Steel

The world's best reference for structural steel welding. New material includes both U.S. and metric measurements; new section on responsibilities of personnel; revised design of welded connections; limits of fillet weld length; definition of T-joints, and fatigue limits of weld and joint types; new data on through-thickness base metal loading; clarification on matching filler metals to construction materials; and guidelines for Charpy V-notch testing, and commentary on ultrasonic testing. Engineers, architects and fabricators depend on this book to ensure integrity of welded steel structures. ANSI approved, Dept. of Defense adopted.

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Standard Welding Procedure Specification (SWPS) for; Gas Metal Arc Welding (Short Circuiting Transfer Mode) of Carbon Steel (M-1, Group 1), 18 through 10 Gauge, in the AS-Welded Condition, with or without Backing

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American Petroleum Institute (API)



Welding Guidelines for the Chemical, Oil, and Gas Industries

This publication offers guidance in the selection of steels for new pressure vessels and in the inspection and operation of existing pressure vessels to minimize the probability of brittle fracture caused by low toughness at temperatures below 120°F.

[API RP 582](#)

Safe Welding, Cutting, and Hot Work Practices in the Petroleum and Petrochemical Industries

This publication provides guidelines for the protection of personnel and property when performing welding, cutting, or other hot work in the petroleum and petrochemical industries. This recommended practice distinguishes between normal hot work activities and those, which involve hot work on equipment in service. It provides guidance for certain of these special "in-service" activities.

[API RP 2009](#)

Procedures for Welding or hot Tapping on Equipment in Service

This publication is designed to provide a better understanding of the problems and hazards encountered when welding or installing hot tap connections on piping, vessels, or tanks containing flammable or combustible liquids or gases.

[API RP 2201](#)

Design & Construction of Large, Welded, Low - Pressure Storage Tanks

Covers the design and construction of large, welded, low-pressure carbon steel aboveground storage tanks (including flat-bottom tanks) that have a single vertical axis of revolution. The tanks described are designed for metal temperatures not greater than 250°F and with pressures in their gas or vapor spaces not more than 15 psig.

[API STD 620](#)

Welded Steel Tanks for Oil Storage

Covers material, design, fabrication, erection, and testing requirements for vertical, cylindrical, aboveground, closed-and open-top, welded steel storage tanks in various sizes and capacities for internal pressures approximating atmospheric pressure (internal pressures not exceeding the weight of the roof plates), but a higher internal pressure is permitted when additional requirements are met. This standard applies only to tanks whose entire bottom is uniformly supported and to tanks in non-refrigerated service that have a maximum operating temperature of 200°F.

[API STD 650](#)



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American Welding Society (AWS)

Bridge Welding Code

This code covers the welding requirements for AASHTO welded highway bridges made from carbon and low-alloy constructional steels. This edition contains dimensions in metric SI Units and U.S. Customary Units. Sections 1 through 7 constitute a body of rules for the regulation of welding and in steel construction. Section 9 of the previous edition has had its provisions distributed throughout this edition. Sections 8, 10, and 11 do not contain provisions, as their analogue D1.1 sections are not applicable to the D1.5 Code. Section 12 contains the requirements for fabricating fracture critical members.

[AASHTO/AWS D1.5M/D1.5](#)

ASTM International (ASTM)



Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service

[ASTM A 269](#)

Standard Specification for Seamless and Welded Austenitic Stainless Steel Pipes

[ASTM A 312/A 312M](#)

Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes

[ASTM A 500](#)

Method for Radiographic Examination of Weldments

[ASTM E 1032](#)

Standard Test Method for Radioscopic Examination of Weldments

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[ASTM E 1742](#)

American Welding Society (AWS)

Certification Manual for Welding Inspectors (AWS CM)

An excellent reference and introduction for those interested in becoming Certified Welding Inspectors. Specifically guides those studying for the CWI examination. New, sleeker style with improved readability. Eleven chapters cover the following topics: the welding inspector; responsibilities; standards; joint geometry and terminology; symbols; weldability; destructive testing; procedure and welder qualification; welding/brazing/cutting processes; discontinuities; NDE; and inspector reports.

[AWS CM](#)

British Standards Institution (BSI)



Approval Testing of Welders for Fusion Welding - Part 1: Steels

[BS EN 287 P1](#)

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[BS EN 25817](#)



American Welding Society (AWS)

Structural Welding Code - Aluminum

This code set the rules and regulations necessary for welding structural aluminum using the gas metal arc, gas tungsten arc, and plasma arc welding processes, as well as stud welding and plasma arc gouging, in dynamically loaded or statically loaded nontubular structures as well as tubular structures. Developed under strict American National Standards Institute rules, Structural Welding Code. Aluminum includes sections on Fabrication, Qualification of WPSs, and Personnel and Inspection. [AWS D1.2](#)

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[DIN 2393 P2](#)

Inspection Documents for Metallic Products

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American Welding Society (AWS)

Structural Welding Code - Sheet Steel

One of the primary objectives of this code is to define the allowable capacities used in sheet steel applications in which the transfer of calculated load occurs. If you are responsible for the welding of steel decks, panels, storage racks, and stud and joist framing members, to name a few applications; this code helps you to effect consistently sound welding of joints. Includes allowable load capacities, details of welded connections, pre-qualification of WPSs, qualification, inspection, and stud welding. Seven tables, 44 figures, 5 Annexes, and commentary. [AWS D1.3](#)

American Welding Society (AWS)

Welding Inspection Handbook (AWS WI)

Not too deep and not too abridged, this edition of the Welding Inspection earns the rank of handbook with its no-nonsense style, clarity of detail, and logical progression of information - with chapters on: operations; inspection, safety; QA; ferrous welding metallurgy; preheating/post weld heat treating; discontinuities; qualification of WPSs; qualification of welders; destructive testing; proof tests; NDE methods; metrics; standards; and symbols.

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AASHTO	American Association of State Highway Transportation Officials	GED	Global Engineering Documents®
AATCC	American Association of Textile Chemists and Colorists	GEIA	Government Electronics and Information Technology Association (GEIA)
ACGIH	American Conference of Governmental Industrial Hygienists	GM	GM North America
ACI	American Concrete Institute	GMB	GM do Brasil, Ltda.
AES	Audio Engineering Society	GMW	GM Worldwide (GMW)
AF	United States Air Force	GPO	Government Printing Office
AGMA	American Gear Manufacturers Association	GSA	General Service Administration
AI	Asphalt Institute	HI	Hydraulics Institute
AIA	Aerospace Industries Association of America	HOLDEN	Holden Ltd.
AIA/NAS	Aerospace Industries Association	IAPMO	International Association of Plumbing & Mechanical Officials
AIAG	Automotive Industries Action Group (AIAG)	ICBO	International Conference of Building Officials
AISC	American Institute of Steel Construction	ICEA	Insulated Cable Engineers Association, Inc. (ICEA)
AISE	Association of Iron and Steel Engineers	IEC	International Electrotechnical Commission
AISI	American Iron and Steel Institute	IEEE	Institute of Electrical & Electronics Engineers, Inc.
AMT	The Association for Manufacturing Technology	IESNA	The Illuminating Engineering Society of North America
ANSI	American National Standards Institute (ANSI)	IFI/FASTNR	Industrial Fasteners Institute
API	American Petroleum Institute	IHS	Information Handling Services
ARINC	Aeronautical Radio Incorporated (ARINC)	INTERNATIONAL	International Truck and Engine Corporation
ASA	Acoustical Society of America	IPC	Association Connecting Electronics Industries (IPC)
ASHRAE	American Society of Heating, Refrigerating & Air Conditioning Engineers	ISA	Instrument Society of America (ISA)
ASM	ASM International	ISEA	Industrial Safety Equipment Association
ASME	American Society of Mechanical Engineers	ISO	International Organization for Standardization
ASQ	American Society for Quality	ISUZU	ISUZU Motors Limited
ASSE/SAFE	American Society of Safety Engineers	ITU	International Telecommunication Union (ITU)
ASTM	ASTM International	JAA	Joint Aviation Authorities
ATIS	Alliance for Telecommunications Industry Solutions	JAGUAR	JAGUAR
AWS	American Welding Society	JD	John Deere
AWWA	American Water Works Association	JEDEC	Solid State Technology Association
BHMA	Builders Hardware Manufacturers Association	JOINT STANDARDS	JOINT STANDARDS
BICSI	Building Industry Consulting Service International	JSA	Japanese Standards Association (JSA)
BOCA	Building Officials & Code Administrators	LIA/LASER	Laser Institute of America
BSI	British Standards Institution (BSI)	MAAGGEAR	MAAG Gear Company, Ltd.
CCPI	Computer Cabling Products International	MCGRAW	McGraw Hill Publishing Company
CEA	Consumer Electronics Association	MMTA	Multi Media Telecommunications Association
CEN	European Committee for Standardization	MSS	Manufacturers Standardization Society of the Valve and Fittings Industry
CHAPMAN	Thomas Learning Center	MUNSELL	Munsell
CSA	Canadian Standards Association (CSA)	NACE	NACE International
CSA/CAN	CSA International	NAS	National Aerospace Standards
CSR	Communications Standards Review	NCCLS	National Committee for Clinical Laboratory Standards
DEERE	Deere & Co.	NECA	National Electrical Contractors Association (NECA)
DELPHI-I	Delphi Interior Systems	NEMA	National Electrical Manufacturers Association (NEMA)
DELTA	Delta Motor Corporation	NEW HOLLAND	New Holland
DIN	Deutsches Institut für Normung, e.V. (Germany)	NFPA/FIRE	National Fire Protection Association
ECA	Electronic Components, Assemblies & Materials Association	NFPA/FLUID	National Fluid Power Association
EEC	European Council/Commission Legislative Documents	NPFC	Navel Publications and Form Center
EIA	Electronic Industries Alliance (EIA)	NSC	National Safety Council
EIAJ	Electronics Industries Association of Japan	NSF	NSF International (NSF)
EMF-EFI	EMF-EFI Control Inc.	NTIS	National Technical Information Service
ESDU	Engineering Sciences Data Unit	OPEI	Outdoor Power Equipment Institute
ETSI	European Telecommunications Standards Institute	OPEL	Adam Opel AG
FM	FM Approvals (FM)	PIA	Parachute Industry Association (PIA)
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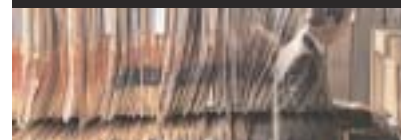
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RSMEANS	Robert S. Means, Inc.
RTCA	Radio Technical Commission for Aeronautics
SA	Standards Australia (SA)
SAE	SAE International
SBCCI	Southern Building Code Congress International, Inc.
SCTE	Society of Cable Telecommunications Engineers
SIMCOM	SIMCOM
SMACNA	Sheet Metal and Air Conditioning Contractors National Association
SPE/PLAST	Society of Plastics Engineers
SPI	Society of the Plastics Industry
TECHNOLOGY	Technology International Inc
TECHNOMIC	Technomic Publishing Co., Inc.
TELCORDIA	Telcordia Technologies, Inc
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TIA	Telecommunications Industry Association (TIA)
UL	Underwriters Laboratories (UL)
USPRO	US Pro Trident Research Center



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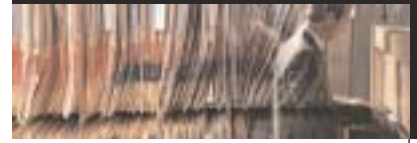
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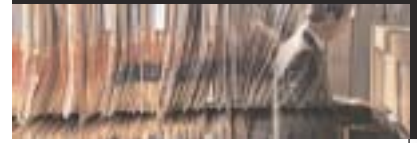
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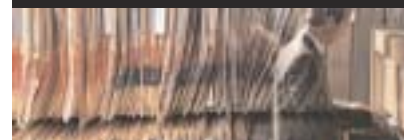


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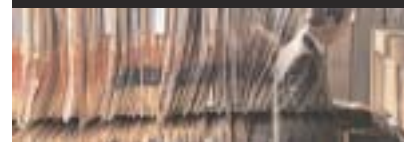
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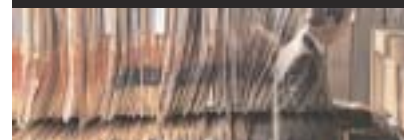
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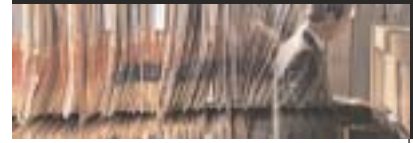
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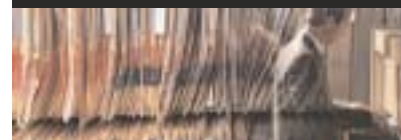
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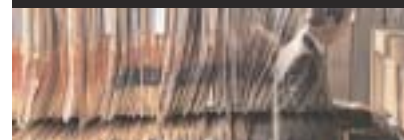


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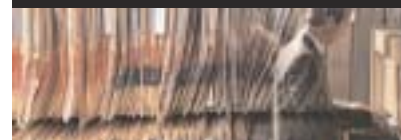


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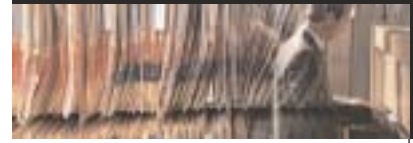


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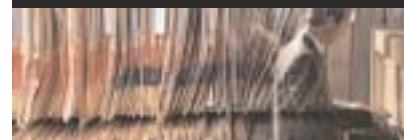


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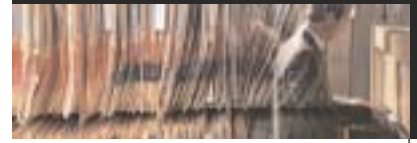
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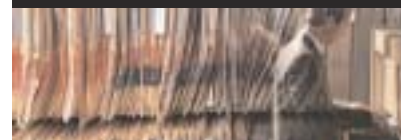
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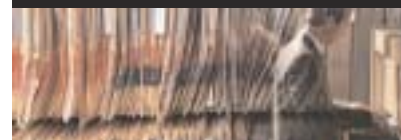
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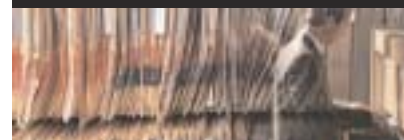
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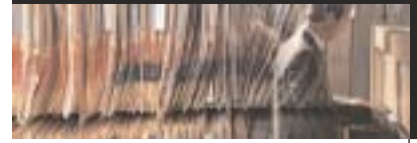
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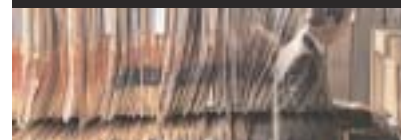
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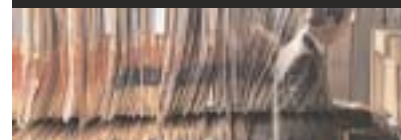


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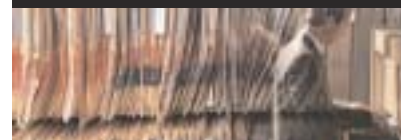
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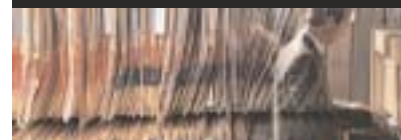
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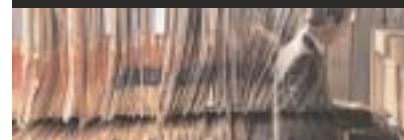


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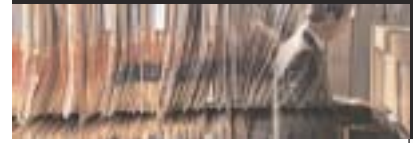
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