This is a reference list of certification standards that can be useful for hazardous locations design.

Please note that certain standards in this list may no longer be current. They are listed here for reference, and to support those applications that still require certification to the older standards.

Generally, standards must be purchased. This might be done via their issuing organization, or by various distributors and resellers.

As web sites change frequently, we are not able to provide links. For assistance in identifying or locating standards relevant to your application, please contact us.

Harmonized Standards

IEC 60079-0: General requirements

IEC 60079-1: Equipment protection by flameproof enclosures "d"

IEC 60079-2: Equipment protection by pressurized enclosure "p"

IEC 60079-5: Equipment protection by powder-filling "q"

IEC 60079-6: Equipment protection by liquid immersion "o"

IEC 60079-7: Equipment protection by increased safety "e"

IEC 60079-11: Equipment protection by intrinsic safety "i"

IEC 60079-13: Equipment protection by pressurized room "p" and artificially ventilated room "v"

IEC 60079-14: Electrical installations design, selection and erection

IEC 60079-15: Equipment protection by type of protection "n" (nA, nL, nC, nR)

IEC TR 60079-16: Artificial ventilation for the protection of analyzer houses

IEC 60079-18: Equipment protection by encapsulation "m"

IEC 60079-25: Intrinsically safe systems

IEC 60079-26: Equipment with Equipment Protection Level (EPL) Ga

IEC 60079-28: Protection of equipment and transmission systems using optical radiation

IEC 60079-29: Performance requirements for gas detection systems

IEC 60079-31: Equipment dust ignition protection by enclosure "t"

IEC TS 60079-32-1: Electrostatic hazards

IEC TS 60079-40: Requirements for process sealing between flammable process fluids and electrical systems

IEC TS 60079-43: Equipment in adverse service conditions

ISO/IEC 80079-34: Application of quality systems for equipment manufacture

	ISO/IEC 80079-36: Non-electrical equipment for explosive atmospheres - Basic method and requirements
	ISO/IEC 80079-37: Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"
	ISO/IEC 80079-38: Equipment and components in explosive atmospheres in underground mines
	IECEx OD 017: Drawing and documentation guidance for IEC Ex certification
UL	UL 674: Electric Motors and Generators for Division 1
	UL 783: Flashlights and Lanterns
	UL 823: Electric Heaters
	UL 844: Luminaires
	UL 913: Intrinsically Safe Apparatus
	UL 1203: Explosion-Proof and Dust-Ignition-Proof Apparatus
	UL 2208: Solvent Distillation Units
	UL 2225: Cables and Fittings
	UL 60079 series: Equipment for explosive atmospheres
NFPA	NFPA 30: Flammable and Combustible Liquids Code
	NFPA 33: Spray Application Using Flammable or Combustible Materials
	NFPA 34: Dipping, Coating, and Printing Processes Using Flammable or Combustible Liquids
	NFPA 36: Solvent Extraction Plants
	NFPA 37: Stationary Combustion Engines and Gas Turbines
	NFPA 61: Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities
	NFPA 68: Explosion Protection by Deflagration Venting
	NFPA 69: Explosion Prevention Systems
	NFPA 70: National Electrical Code
	NFPA 77: Recommended Practice on Static Electricity
	NFPA 91: Exhaust Systems for Air Conveying of Vapors, Gases, Mists, and Noncombustible Particulate Solids
	NFPA 484: Combustible Metals
	NFPA 496: Purged and Pressurized Equipment
	NFPA 497: Recommended Practice for the Classification of Flammable Liquids, Gases, or Vapors and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas
	NFPA 499: Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas
	NFPA 652: Standard on the Fundamentals of Combustible Dust

	NFPA 654: Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids
	NFPA 664: Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities
	NFPA 820: Fire Protection in Wastewater Treatment and Collection Facilities
	NFPA 1981: Open-Circuit Self-Contained Breathing Apparatus for Emergency Services (SCBA)
	NFPA 1982: Personal Alert Safety Systems (PASS)
CSA	C22.2 No. 30: Explosion-Proof Enclosures
	C22.2 No. 152: Combustible Gas Detectors
	C22.2 No. 157: Intrinsically Safe and Non-Incendive
	CSA 60079 series: Equipment for explosive atmospheres
	CSA M421 (2011) - Use of electricity in mines
FM	FM 3600: General Requirements
	FM 3610: Intrinsically Safe Apparatus
	FM 3611: Nonincendive Electrical Equipment
	FM 3613: Flashlights and Lanterns
	FM 3615: Explosionproof Electrical Equipment
	FM 3616: Dust-Ignition-Proof Equipment
	FM 3620: Purged/Pressurized
	FM 3640: Land Mobile Radios
	FM 3650: Submersible Motors
	FM 7320: Electric Heaters
	FM 7730: Flameless Explosion Venting
	FM 7910: Spark Resistant Tools
API	API RP 14F: Design, Installation, and Maintenance of Electrical Systems for Fixed and Floating Offshore Petroleum Facilities for Unclassified and Class 1, Division 1 and Division 2 Locations
	API RP 14FZ: Recommended Practice for Design, Installation, and Maintenance of Electrical Systems for Fixed and Floating Offshore Petroleum Facilities for Unclassified and Class I, Zone 0, Zone 1, and Zone 2 Locations
	API RP 500: Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class I, Division 1 and Division 2
	API RP 505: Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class I, Zone 0, Zone 1, and Zone 2
	API RP 2003: Protection Against Ignitions Arising Out of Static,

	Lightning, and Stray Currents
	API RP 2214: Spark Ignition Properties of Hand Tools
ASTM	ASTM F2876-10: Thermal Rating and Installation of Internal Combustion Engine Packages for use in Hazardous Locations in Marine Applications
European Union (CE)	ATEX Directive 2014/34/EU
	EN 13463-1: Basic method and requirements
	EN 13463-2: Protection by flow restricting enclosure ‘fr’
	EN 13463-3: Protection by flameproof enclosure ‘d’
	EN 13463-5: Protection by constructional safety 'c'
	EN 13463-6: Protection by control of ignition source ‘b’
	EN 13463-8: Protection by liquid immersion 'k'
	EN 14373: Explosion suppression systems
	EN 14460: Explosion resistant equipment
	EN 14491: Dust explosion venting protective systems
	EN 1834-1: Safety requirements for design and construction of engines for use in potentially explosive atmospheres
	EN 14797: Explosion venting devices
	EN 16009: Flameless explosion venting devices
	EN 60079-0: General requirements
	EN 60079-1: Equipment protection by flameproof enclosures "d"
	EN 60079-2: Equipment protection by pressurized enclosure "p"
	EN 60079-5: Equipment protection by powder-filling "q"
	EN 60079-6: Equipment protection by liquid immersion "o"
	EN 60079-7: Equipment protection by increased safety "e"
	EN 60079-11: Equipment protection by intrinsic safety "i"
	EN 60079-13: Equipment protection by pressurized room "p" and artificially ventilated room "v"
	EN 60079-14: Electrical installations design, selection and erection
	EN 60079-15: Equipment protection by type of protection "n"
	EN 1634 - Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware
	This is a multi-part document divided into the following parts:
	Part 1 Fire resistance tests for door and shutter assemblies. Fire doors and shutters
	Part 2 Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware. Fire resistance characterisation test for elements of building hardware
	Part 3 Fire resistance tests for door and shutter assemblies.

	Smoke control doors and shutters (nA, nL, nC, nR)
	EN TR 60079-16: Artificial ventilation for the protection of analyzer houses
	EN 60079-18: Equipment protection by encapsulation "m"
	EN 60079-25: Intrinsically safe systems
	EN 60079-26: Equipment with Equipment Protection Level (EPL) Ga
	EN 60079-28: Protection of equipment and transmission systems using optical radiation
	EN 60079-29: Performance requirements for gas detection systems
	EN 60079-31: Equipment dust ignition protection by enclosure "t"
	EN 80079-34: Application of quality systems for equipment manufacture
	EN ISO 80079-36: Non-electrical equipment for explosive atmospheres - Basic method and requirements
	EN ISO 80079-37: Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"
	EN ISO 80079-38: Equipment and components in explosive atmospheres in underground mines
United Kingdom (UKCA/UKEX)	BS EN IEC 60079-0: General requirements
	BS EN 60079-1: Equipment protection by flameproof enclosures "d"
	BS EN 60079-2: Equipment protection by pressurized enclosure "p"
	BS EN 60079-5: Equipment protection by powder-filling "q"
	BS EN 60079-6: Equipment protection by liquid immersion "o"
	BS EN 60079-7: Equipment protection by increased safety "e"
	BS EN 60079-11: Equipment protection by intrinsic safety "i"
	BS EN 60079-13: Equipment protection by pressurized room "p" and artificially ventilated room "v"
	BS EN 60079-14: Electrical installations design, selection and erection
	BS EN 60079-15: Equipment protection by type of protection "n" (nA, nL, nC, nR)
	BS EN 60079-18: Equipment protection by encapsulation "m"
	BS EN 60079-25: Intrinsically safe systems
	BS EN 60079-26: Equipment with Equipment Protection Level (EPL) Ga

	BS EN 60079-28: Protection of equipment and transmission systems using optical radiation
	BS EN 60079-29: Performance requirements for gas detection systems
	BS EN 60079-31: Equipment dust ignition protection by enclosure "t"
	BS EN ISO/IEC 80079-34: Application of quality systems for equipment manufacture
	BS EN ISO 80079-36: Non-electrical equipment for explosive atmospheres - Basic method and requirements
	BS EN ISO 80079-37: Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"
	BS EN ISO/IEC 80079-38: Equipment and components in explosive atmospheres in underground mines
TIA	TIA-4950: Requirements For Battery-powered, Portable Land Mobile Radio Applications In Class I, II, And III, Division 1, Hazardous (Classified) Locations
Customs Union	CU TR 004: Low-voltage equipment
	CU TR 010: Machinery and equipment
	CU TR 012: Equipment for explosive atmospheres
	GOST 2.610: Guidelines for Operational Documents
	GOST 31610.0: Equipment for explosive atmospheres - General requirements
	GOST IEC / GOST R 60079 series: Equipment for explosive atmospheres
	GOST R 80079-34: Application of quality systems for equipment manufacture
	GOST IEC 80079 series: Non-electrical equipment for explosive atmospheres
	GOST R EN 1127 series: Explosion prevention and protection
	GOST R EN 13463 series: Non-electrical equipment
Offshore and Marine	International Maritime Organization MODU Code
	SOR-95-191: Nova Scotia Offshore Petroleum Installation Regulations
	SOR-95-104: Newfoundland Offshore Petroleum Installations Regulations
	DNVGL-ST-E272 (DNV 2.7-2): Offshore service modules
	DNVGL-ST-E273 (DNV 2.7-3): Portable offshore units
South Africa	SANS 868-1-1: Compression-ignition engine systems and machines for use in mines – Basics
	SANS 868-1-2: Compression-ignition engine systems and

	machines for use in mines - Explosion protected engines SANS 868-1-3: Compression-ignition engine systems and machines for use in mines - Machines
Department of Energy	DOE-STD-1212-2012: Explosives Safety
Department of Defense	MIL-STD-801G: Environmental Engineering and Laboratory Tests

ASTM D1204 – Dimensional Stability Report

NFPA 701 Flame Spread Test – Flame Propagation of Textiles and Films

ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials

NFPA 701-2015: Page 1, 2 & 3 – Standard for Flame Tests of Flame Resistant Fabrics & Film, Large Flame Tee, Single Sheet Specimen