

NFPA[®]

10

**Standard for
Portable Fire Extinguishers**

2018



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NFPA® 10

Standard for

Portable Fire Extinguishers

2018 Edition

This edition of NFPA 10, *Standard for Portable Fire Extinguishers*, was prepared by the Technical Committee on Portable Fire Extinguishers. It was issued by the Standards Council on August 1, 2017, with an effective date of August 21, 2017, and supersedes all previous editions.

This document has been amended by one or more Tentative Interim Amendments (TIAs) and/or Errata. See “Codes & Standards” at www.nfpa.org for more information.

This edition of NFPA 10 was approved as an American National Standard on August 21, 2017.

Origin and Development of NFPA 10

In 1918 and 1919, the NFPA Committee on Field Practice (predecessor of the present committee) was active in developing a standard on first aid protection. The earliest official NFPA standard on this subject was adopted in 1921. Revised editions were adopted by the association in 1926, 1928, 1929, 1930, 1931, 1932, 1936, 1938, 1942, 1945, 1950, 1953, 1955, 1956, 1957, 1958, 1959, 1961, 1962, 1963, 1965, 1966, 1967, 1968, 1969, 1970, 1972, 1973, 1974, 1975, 1978, and 1981. In 1965, the previous editions were divided into two separate texts, one covering installation and the second covering maintenance and use. The 1974 edition recombined all the information previously contained in NFPA 10 and NFPA 10A. A new appendix was added to the 1974 edition to include information about the selection of fire extinguishers for home hazards. Information on selection and distribution of fire extinguishers was added to the appendix of the 1978 edition. Major revisions to provide simplification and uniformity were made in the 1984 edition. The standard was revised in 1988, 1990, and 1994.

In 1998, NFPA 10R, *Recommended Practice for Portable Fire Extinguishing Equipment in Family Dwelling Units and Living Units*, was withdrawn. Information on this topic was incorporated as an annex of NFPA 10.

This standard was revised in 2002.

The 2007 edition of this standard was a complete revision.

The 2010 edition of this standard included changes to comply with the *Manual of Style for NFPA Technical Committee Documents* by removing unenforceable terms. Annex material was also added to clarify the need for removing obsolete extinguishers.

The 2013 edition of this standard was revised to better address Class D extinguishing agents and the phase-out of listed halon extinguishers. The definition of halocarbons was expanded to permit the use of any halocarbon agent acceptable under the U.S. EPA Significant New Alternatives Policy program. The list of NFPA documents that contain additional requirements that supersede or expand upon those found in this standard was significantly expanded for easy reference. New travel distances for obstacle, gravity/three-dimensional, and pressure fire hazards were added. Chapter 7, Inspection, Maintenance, and Recharging, and Annex E, Distribution, were significantly revised and restructured. Instructions for inspection and maintenance of residential extinguishers were added to Annex F, Selection of Residential Fire-Extinguishing Equipment.

The 2018 edition incorporates clarifications on a wide array of topics, including electronic monitoring, obsolete extinguishers, extinguishers installed in areas containing oxidizers, extinguisher signs, and extinguisher mounting equipment and cabinets. A new requirement regarding maintenance of hose stations that are used in lieu of extinguishers has been added. The fire classification marking system is expanded to include markings for extinguishers rated for Class AC and Class AK. The annexes have also been updated to address current extinguisher types and ratings, while removing information on obsolete equipment.

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NOTE: Membership on a committee shall not in and of itself constitute an endorsement of the Association or any document developed by the committee on which the member serves.

Committee Scope: This Committee shall have primary responsibility for documents on the installation, maintenance, and use of portable fire extinguishers and equipment. Does not apply to permanently installed fire extinguishing systems even though portions of those systems are portable, such as hose and nozzles, which may be attached to a fixed supply of extinguishing agent.

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NFPA 10

Standard for

Portable Fire Extinguishers

2018 Edition

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NOTICE: An asterisk (*) following the number or letter designating a paragraph indicates that explanatory material on the paragraph can be found in Annex A.

A reference in brackets [] following a section or paragraph indicates material that has been extracted from another NFPA document. As an aid to the user, the complete title and edition of the source documents for extracts in mandatory sections of the document are given in Chapter 2 and those for extracts in informational sections are given in Annex K. Extracted text may be edited for consistency and style and may include the revision of internal paragraph references and other references as appropriate. Requests for interpretations or revisions of extracted text shall be sent to the technical committee responsible for the source document.

Information on referenced publications can be found in Chapter 2 and Annex K.

Chapter 1 Administration

1.1* Scope. The provisions of this standard apply to the selection, installation, inspection, maintenance, recharging, and testing of portable fire extinguishers and Class D extinguishing agents.

1.1.1 The requirements given herein are minimum.

1.1.2 The requirements shall not apply to permanently installed systems for fire extinguishment, even where portions of such systems are portable (such as hose and nozzles attached to a fixed supply of extinguishing agent).

1.2* Purpose. This standard is prepared for use by and guidance of persons charged with selecting, purchasing, installing, approving, listing, designing, and maintaining portable fire extinguishers and Class D extinguishing agents.

1.2.1 The fire protection requirements of this standard are general in nature and are not intended to abrogate the specific requirements of other NFPA standards for specific occupancies.

1.2.2 Nothing in this standard shall be construed as a restriction on new technologies or alternative arrangements, provided that the level of protection as herein described is not lowered and is acceptable to the authority having jurisdiction.

1.3 Units.

1.3.1 Metric units of measurement in this standard are in accordance with the modernized metric system known as the International System of Units (SI).

1.3.1.1 The units are listed in Table 1.3.1.1 with conversion factors.

Table 1.3.1.1 Metric Units of Measurement

Name of Unit	Abbreviation	Conversion Factor
Liter	L	1 gal = 3.785 L
Millimeter	mm	1 in. = 25.4 mm
Meter	m	1 ft = 0.305 m
Kilogram	kg	1 lb (mass) = 0.454 kg
Degree Celsius	°C	$\frac{5}{9}(\text{°F} - 32) = \text{°C}$
Bar	bar	1 psi = 0.0689 bar

1.3.1.2 If a value for measurement as given in this standard is followed by an equivalent value in other units, the first stated is to be regarded as the requirement.

1.3.1.3 A given equivalent value shall be permitted to be considered approximate.

1.3.2 The conversion procedure for the SI units is to multiply the quantity by the conversion factor and then round the result to the appropriate number of significant digits.

Chapter 2 Referenced Publications

2.1 General. The documents or portions thereof listed in this chapter are referenced within this standard and shall be considered part of the requirements of this document.

2.2 NFPA Publications. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.

NFPA 1, *Fire Code*, 2015 edition.

NFPA 2, *Hydrogen Technologies Code*, 2016 edition.

NFPA 14, *Standard for the Installation of Standpipe and Hose Systems*, 2016 edition.

NFPA 22, *Standard for Water Tanks for Private Fire Protection*, 2013 edition.

NFPA 30, *Flammable and Combustible Liquids Code*, 2015 edition.

NFPA 30A, *Code for Motor Fuel Dispensing Facilities and Repair Garages*, 2015 edition.

NFPA 33, *Standard for Spray Application Using Flammable or Combustible Materials*, 2016 edition.

NFPA 40, *Standard for the Storage and Handling of Cellulose Nitrate Film*, 2016 edition.

NFPA 45, *Standard on Fire Protection for Laboratories Using Chemicals*, 2015 edition.

- NFPA 51, *Standard for the Design and Installation of Oxygen–Fuel Gas Systems for Welding, Cutting, and Allied Processes*, 2013 edition.
- NFPA 51B, *Standard for Fire Prevention During Welding, Cutting, and Other Hot Work*, 2014 edition.
- NFPA 52, *Vehicular Natural Gas Fuel Systems Code*, 2016 edition.
- NFPA 58, *Liquefied Petroleum Gas Code*, 2017 edition.
- NFPA 59, *Utility LP-Gas Plant Code*, 2015 edition.
- NFPA 59A, *Standard for the Production, Storage, and Handling of Liquefied Natural Gas (LNG)*, 2016 edition.
- NFPA 72®, *National Fire Alarm and Signaling Code*, 2016 edition.
- NFPA 75, *Standard for the Fire Protection of Information Technology Equipment*, 2017 edition.
- NFPA 76, *Standard for the Fire Protection of Telecommunications Facilities*, 2016 edition.
- NFPA 96, *Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations*, 2017 edition.
- NFPA 99, *Health Care Facilities Code*, 2015 edition.
- NFPA 99B, *Standard for Hypobaric Facilities*, 2015 edition.
- NFPA 101®, *Life Safety Code®*, 2015 edition.
- NFPA 102, *Standard for Grandstands, Folding and Telescopic Seating, Tents, and Membrane Structures*, 2016 edition.
- NFPA 115, *Standard for Laser Fire Protection*, 2016 edition.
- NFPA 120, *Standard for Fire Prevention and Control in Coal Mines*, 2015 edition.
- NFPA 122, *Standard for Fire Prevention and Control in Metal/Nonmetal Mining and Metal Mineral Processing Facilities*, 2015 edition.
- NFPA 130, *Standard for Fixed Guideway Transit and Passenger Rail Systems*, 2017 edition.
- NFPA 140, *Standard on Motion Picture and Television Production Studio Soundstages, Approved Production Facilities, and Production Locations*, 2013 edition.
- NFPA 150, *Standard on Fire and Life Safety in Animal Housing Facilities*, 2016 edition.
- NFPA 160, *Standard for the Use of Flame Effects Before an Audience*, 2016 edition.
- NFPA 232, *Standard for the Protection of Records*, 2017 edition.
- NFPA 241, *Standard for Safeguarding Construction, Alteration, and Demolition Operations*, 2013 edition.
- NFPA 301, *Code for Safety to Life from Fire on Merchant Vessels*, 2013 edition.
- NFPA 302, *Fire Protection Standard for Pleasure and Commercial Motor Craft*, 2015 edition.
- NFPA 303, *Fire Protection Standard for Marinas and Boatyards*, 2016 edition.
- NFPA 307, *Standard for the Construction and Fire Protection of Marine Terminals, Piers, and Wharves*, 2016 edition.
- NFPA 326, *Standard for the Safeguarding of Tanks and Containers for Entry, Cleaning, or Repair*, 2015 edition.
- NFPA 385, *Standard for Tank Vehicles for Flammable and Combustible Liquids*, 2017 edition.
- NFPA 400, *Hazardous Materials Code*, 2016 edition.
- NFPA 403, *Standard for Aircraft Rescue and Fire-Fighting Services at Airports*, 2014 edition.
- NFPA 407, *Standard for Aircraft Fuel Servicing*, 2017 edition.
- NFPA 408, *Standard for Aircraft Hand Portable Fire Extinguishers*, 2017 edition.
- NFPA 409, *Standard on Aircraft Hangars*, 2016 edition.
- NFPA 410, *Standard on Aircraft Maintenance*, 2015 edition.
- NFPA 418, *Standard for Heliports*, 2016 edition.
- NFPA 423, *Standard for Construction and Protection of Aircraft Engine Test Facilities*, 2016 edition.
- NFPA 484, *Standard for Combustible Metals*, 2015 edition.
- NFPA 495, *Explosive Materials Code*, 2013 edition.
- NFPA 498, *Standard for Safe Havens and Interchange Lots for Vehicles Transporting Explosives*, 2013 edition.
- NFPA 501A, *Standard for Fire Safety Criteria for Manufactured Home Installations, Sites, and Communities*, 2017 edition.
- NFPA 502, *Standard for Road Tunnels, Bridges, and Other Limited Access Highways*, 2017 edition.
- NFPA 505, *Fire Safety Standard for Powered Industrial Trucks Including Type Designations, Areas of Use, Conversions, Maintenance, and Operations*, 2013 edition.
- NFPA 655, *Standard for Prevention of Sulfur Fires and Explosions*, 2017 edition.
- NFPA 731, *Standard for the Installation of Electronic Premises Security Systems*, 2017 edition.
- NFPA 801, *Standard for Fire Protection for Facilities Handling Radioactive Materials*, 2014 edition.
- NFPA 804, *Standard for Fire Protection for Advanced Light Water Reactor Electric Generating Plants*, 2015 edition.
- NFPA 805, *Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants*, 2015 edition.
- NFPA 820, *Standard for Fire Protection in Wastewater Treatment and Collection Facilities*, 2016 edition.
- NFPA 909, *Code for the Protection of Cultural Resource Properties — Museums, Libraries, and Places of Worship*, 2017 edition.
- NFPA 914, *Code for Fire Protection of Historic Structures*, 2015 edition.
- NFPA 1123, *Code for Fireworks Display*, 2014 edition.
- NFPA 1125, *Code for the Manufacture of Model Rocket and High Power Rocket Motors*, 2017 edition.
- NFPA 1126, *Standard for the Use of Pyrotechnics Before a Proximate Audience*, 2016 edition.
- NFPA 1141, *Standard for Fire Protection Infrastructure for Land Development in Wildland, Rural, and Suburban Areas*, 2017 edition.
- NFPA 1192, *Standard on Recreational Vehicles*, 2015 edition.
- NFPA 1194, *Standard for Recreational Vehicle Parks and Campgrounds*, 2014 edition.
- NFPA 1221, *Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems*, 2016 edition.
- NFPA 1901, *Standard for Automotive Fire Apparatus*, 2016 edition.
- NFPA 1906, *Standard for Wildland Fire Apparatus*, 2016 edition.
- NFPA 1925, *Standard on Marine Fire-Fighting Vessels*, 2013 edition.
- NFPA 1962, *Standard for the Care, Use, Inspection, Service Testing, and Replacement of Fire Hose, Couplings, Nozzles, and Fire Hose Appliances*, 2013 edition.
- NFPA 5000®, *Building Construction and Safety Code®*, 2015 edition.

2.3 Other Publications.

2.3.1 ACA Publications. American Coatings Association, 1500 Rhode Island Avenue, NW, Washington, DC 20005.

Hazardous Materials Identification System (HMIS), Implementation Manual, 4th edition.