

527 CMR: BOARD OF FIRE PREVENTION REGULATIONS

1.04: continued

Materials	Quantities	Permit	License
Small arms ammunition of shotgun ammunition. [private use]	< 5,000 rounds	no	no
	≥ 5,000 rounds- 50,000 rounds	yes	no
	> 50,000 rounds	yes	yes
Small arms ammunition primers. [private use]	< 10,000 caps or other small arms primers	no	no
	≥ 10,000 caps or other small arms primers	yes	yes
Small arms ammunition primers. [commercial use]	< 100,000 caps or other small arms primers	yes	no
	≥ 100,000 caps or other small arms primers	yes	yes
Smokeless propellants. [private] Note 1: Persons younger than 18 years old may not keep or store smokeless propellants. Note 2: Not more than two pounds of such propellant shall be stored in a multiple family dwelling or a building of public access.	< 16 lbs.	no	no
Smokeless propellants. [private]	16 lbs. through 47 lbs.	yes	no
	≥ 48 lbs.	yes	yes
Smokeless propellants. [commercial]	≥ 16 lbs. through < 99 lbs.	yes	no
	≥ 100 lbs.	yes	yes
Black powder. [private] Note: Persons younger than 18 years old may not keep or store any amount of black powder.	≤ 2 lbs	no	no
	> 2 lbs. through < 5 lbs.	yes	no
	≤ 5 lbs.	yes	yes
Black powder. [commercial] See Section 1.12.8.39.2.5.1 for permit exempted individual.	< 50 lbs.	yes	no
	≥ 50 lbs.	yes	yes
Special industrial explosive devices.	< 50 lbs. net weight of explosives	no	no
	≥ 50 lbs. net weight of explosives	yes	yes
Explosive material. Note: Fireworks can be stored up to 30 days without a land license.	Classified Division 1.1 - 1.6	yes	yes

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Materials	Quantities	Permit	License
LP-gas.	< 42 lbs. [10 gallons]	no	no
	≥ 42 lbs. [10-gallons] through 2,000 gallons	yes	no
	> 2,000 gallons of LP-gas in the aggregate	yes	yes
Flammable or class II combustible liquids unattended within cargo tanks, portable tanks or transfer tanks on a parcel of land. This shall not apply to parcels of land permitted by the Head of the Fire Department prior to September 1, 2008.	≤ 15,000 gallons in the aggregate	yes	no
	> 15,000 gallons in the aggregate	yes	yes

1.12.8.51 Certificates of Completion. A certificate of completion shall be filed as provided in *Table 1.12.8.51*.

1.12.8.51.1 A person making the installation or connection of an oil burner, alternate fuel installation, or LP-gas installation shall within 72 hours (excluding Saturday, Sunday and holidays) after test-firing the burner, file such Certificate of Completion with the Head of the Fire Department.

1.12.8.51.2 Inspection. Upon receipt of a Certificate of Completion, the Head of the Fire Department shall make an inspection of the installation within a reasonable time, and if same is found to be in accordance with this *Code*, the AHJ shall issue to the owner or occupant an applicable permit.

Table 1.12.8.51 Certificates Required for Permit

Chapters 11, 42 and 69	Certificates of Completion
Type	
Oil Burner Technician [Chapter 11]	
Upon completion, the person, firm or corporation having made the installation or connection:	Shall certify in writing on a form approved by the State Fire Marshal to the Head of the Fire Department that the work has been completed, and is in conformity with the requirements of this <i>Code</i> .
CNG, LNG, Hydrogen, and LP-Gas Alternate Fuels [Chapter 42]	
Upon completion of an installation or connection the person, firm or corporation having made the installation or connection:	Shall certify in writing on a form approved by the State Fire Marshal to the Head of the Fire Department that the work has been completed, and in conformity with the requirements of this <i>Code</i> .
LP-gas [Chapter 69]	
Upon completion of an installation or connection the person, firm or corporation having made the installation or connection:	Shall certify in writing on a form approved by the State Fire Marshal to the Head of the Fire Department that the work has been completed, and in conformity with the requirements of this <i>Code</i> .
	<i>See Section 1.12.8.51</i>

1.13 Certificates.

1.13.1 Authorization. The State Fire Marshal shall have the authority to require certificates and collect fees for individuals or companies performing any of the following activities.

- (1) Sale, manufacture, possession or use of explosive materials, blasting operations, firework displays, storage of fireworks, or use of pyrotechnics or special effects before a proximate audience; *see Sections 1.13.10 and 1.13.11*, and Chapter 65
- (2) Inspection, servicing, or recharging of portable fire extinguishers; *see Section 1.13.5* and Chapter 13

1.05: continued

(4) No Smoking signs, featuring the international pictograph prohibiting smoking, must be posted at all entrances to the house or building before floor sanding or finishing begins and until 24 hours after the end of all floor sanding and finishing activities.

Chapter 17 Wildland Urban Interface.

Chapter 17 Delete in its entirety.

Chapter 18 Fire Department Access and Water Supply.

18.1 Replace with the following:

18.1 General Scope. Fire department access and water supplies shall comply with this chapter. The provisions of this chapter shall not apply to any city, or town which has accepted the provisions of M.G.L. c. 41, § 81 *et. seq.* or similar laws which provide local jurisdiction over fire department access and water supply. In the absence of any such laws, fire department access and water supply shall comply with this chapter.

18.1.1.3 Add:

18.1.1.3 This chapter shall apply to new one- or two-family dwellings, not provided with adequate frontage and located behind an existing building that has frontage. For purposes of this section, adequate frontage shall mean at least 20 feet or more abutting a public way.

18.1.1.3.1 Existing and new one- and two-family detached dwellings, not located behind a building with adequate frontage, and their accessory structures such as garages, carports, and sheds shall be exempt from the provisions of *Section 18.2.3*.

18.1.1.4 Add:

18.1.1.4 The fire apparatus access road plans must include an analysis and evaluation of fire apparatus maneuvers throughout the access roads created by swept path analysis and turn simulation software.

18.1.1.5 Add:

18.1.1.5 The fire apparatus access plans shall bear the seal and signature of the responsible registered professional engineer.

18.1.1.6 Add:

18.1.1.6 Nothing in this Section shall reduce the requirements established by cities or towns under M.G.L. c. 40A and planning and zoning bylaws.

18.1.3.1 Replace with the following:

18.1.3.1 Fire Apparatus Access. Plans, where required, for fire apparatus access roads shall be submitted to the fire department for review and approval prior to construction.

18.2.2.1.1 Add:

18.2.2.1.1 Approval of access roads shall be subject to the AHJ and capable of supporting the imposed loads of fire apparatus and shall be provided with an all-weather driving surface and shall be maintained as provided.

18.2.2.3 Replace with the following:

18.2.2.3 Access Maintenance. The owner or occupant of a structure or area, with required fire department access as specified in *Section 18.2.2.1 or 18.2.2.2*, shall notify the AHJ when the access is modified.

18.2.3.1.3*(1) through 18.2.3.1.3*(4) Delete.

18.2.3.1.3* Replace with the following:

18.2.3.1.3* (6) Other detached buildings having an area not exceeding 400 ft.²

18.2.3.1.4 Replace with the following:

18.2.3.1.4 When fire department access roads cannot be installed due to location on property, topography, waterways, nonnegotiable grades, or other similar conditions, the AHJ shall be permitted to accept alternatives proposed by the owner of the building to allow additional fire protection features, up to and including the installation of an approved fire sprinkler system installed in accordance with the *Building Code*, cistern(s), additional fire hydrant(s), or similar devices or systems.

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18.2.3.2 Replace with the following:

18.2.3.2 Access to Buildings and Facilities.

18.2.3.2.1.1 Add:

18.2.3.2.1.1 Where a new building, not provided with adequate frontage, is to be located behind an existing building that has frontage, a fire department access road shall extend to within 25 feet of at least one exterior door that can be opened from the outside and that provides access to the interior of the building.

18.2.3.2.1.1.2 Where a townhouse as defined in the *Building Code*, is protected with an approved automatic sprinkler system that is installed in accordance with NFPA 13D or NFPA 13R, as applicable, the distance in *Section 18.2.3.2.1* shall be permitted to be increased to 150 ft. (46 m).

18.2.3.2.2.1 When buildings are protected throughout with an approved automatic sprinkler system that is installed in accordance with NFPA 13: *Standard for the Installation of Sprinkler Systems* the distance in *Section 18.2.3.2.2* shall be permitted to be increased to 250 feet.

18.2.3.2.2.2 Except new one- or two-family dwellings, and townhouses, not provided with adequate frontage and located behind an existing building that has frontage.

18.2.3.5.1.1 Replace with the following:

18.2.3.5.1.1 Fire department access roads shall have an unobstructed width of not less than 20 feet (6.1 m). Fire department access roads constructed in the boulevard-style shall be allowed where each lane is less than 20 feet but not less than ten feet when they do not provide access to a building or structure.

18.2.3.5.2.1 Add:

18.2.3.5.2.1 Permeable drivable surfaces, that meet loading of *Section 18.2.3.4.2*, are allowed when approved by the AHJ. When approved, the permeable surfaces shall be identified by a method acceptable to the AHJ.

18.2.3.5.3.1 Replace with the following:

18.2.3.5.3.1 The minimum inside turning radius of a fire department access road shall be 25 feet. The AHJ shall have the ability to increase the minimum inside turning radius to accommodate the AHJ's apparatus.

18.2.3.5.6.1 Replace with the following:

18.2.3.5.6.1 The gradient for a fire department access road shall not exceed 10%, unless approved in writing by the AHJ.

18.2.3.5.8 Add:

18.2.3.5.8 Travel in the Opposing Lane. The use of the opposite travel lane is prohibited in the design of all new fire apparatus access roads.

Delete:

18.2.4.2.3 through **18.5.4.4.**

Chapter 19 Combustible Waste and Refuse.

19.3 Add:

19.3 Special Hazards, Rubbish.

19.3.1 Spontaneous Combustion. Substances subject to spontaneous heating or ignition, such as oily or greasy rags, or other materials or combinations of materials, shall not be deposited in combustible containers or so kept or stored as to ignite combustible material.

19.3.1.1 Such substances shall not be mixed with combustible rubbish or stored in the same containers.

19.3.1.2 Materials subject to spontaneous ignition shall be kept in listed metal receptacles equipped with self-closing hinged covers designed to guard against the hazard of spontaneous combustion.

19.3.1.3 Contents shall be emptied every night and disposed of properly.

19.3.1.4 Hot Waste. Hot coals, cinders, hot scrap metal, and similar substances shall not be deposited in combustible containers, or kept or stored so as to ignite combustible material.

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34.11.4.1* Replace with the following:

34.11.4.1* The outside storage of pallets on the same site as a manufacturing or recycling facility shall comply with *34.11.4*.

Chapter 35 Animal Housing Facilities

Chapter 35 Delete in its entirety.

Chapter 36 Telecommunication Facilities and Information Technology Equipment.

Chapter 36 Delete in its entirety.

Chapter 37 Fixed Guideway Transit and Passenger Rail Systems.

Chapter 37 Delete. in its entirety.

Chapter 38 Cannabis Growing, Processing or Extraction Facilities

38.5.1 Replace with the following:

38.5.1 Ventilation for Light Fixtures. Light fixture ductwork shall be installed in accordance with the manufacturer and NFPA 90A and the *Mechanical Code*.

38.5.4.1 Replace with the following:

38.5.4.1 Interior finish, including the use of any plastic, mylar, or other thin film sheeting to enclose rooms or cover any walls or ceilings shall be in accordance with *Sections 12.5, 12.6* and the *Building Code*.

Chapter 39 Wastewater Treatment and Collection Facilities

Chapter 39 Delete in its entirety.

Chapter 40 Dust Explosion and Fire Prevention

No amendments

Chapter 41 Welding, Cutting, and Other Hot Work.

41.1.1.1 through **41.1.1.1(8)** Add:

41.1.1.1 Terms. As used in Chapter 41, the enclosed terms shall have the following meaning assigned to them.

- (1) **Hot Work.** Work involving, burning, welding, or a similar operation that is capable of initiating fires or explosions.
- (2) **Hot Work Operator.** A qualified person and if required, shall be certified pursuant to the provisions of this chapter and standards referenced in this chapter.
- (3) **Qualified Person.** A person who has successfully completed the training criteria pursuant to *Section 41.7*.
- (4) **Management.** For the purpose of hot work, all persons, including owners, contractors, educators, and so on, who are responsible for hot work operations.

1.05: continued

(5) **Permissible Areas.**

(a) **Designated Area.** A specific location designed and approved for hot work operations that is maintained fire-safe, such as a maintenance shop or a detached outside location, that is of noncombustible or fire-resistive construction, essentially free of combustible and flammable contents, and suitably segregated from adjacent areas.

(b) **Permit-required Area.** Any location other than a designated area that is approved for hot work and is made fire-safe by removing or protecting combustibles from ignition sources.

(6) **Permit.** For the purposes of hot work, a document issued, by the AHJ, to a qualified person as defined in *Section 41.1.1.1(3)* for the purpose of authorizing that individual to carry out the activity of hot work.

(7) **Permit Authorizing Individual (PAI).** An individual designated by management to authorize hot work.

(8) **Welding and Allied Processes.** Processes such as arc welding, oxy-fuel gas welding, open-flame soldering, brazing, thermal spraying, oxygen cutting, and arc cutting.

41.1.5.3 Add:

41.1.5.3 Hot Work Permit. Hot work permits, where required shall comply with *Section 1.12* and Chapter 41.

41.2.1.8 through **41.2.1.10** Add:

41.2.1.8 Management shall ensure that the contractor has evidence of financial responsibility, which can take the form of an insurance certificate or other document attesting to coverage or responsibility, a copy and an education certification of completion shall be submitted to the AHJ when requested.

41.2.1.9 Management shall assure that welders and their supervisors are trained in the safe operation of their equipment, the safe use of the process, and emergency procedures and maintain education certificates of completion on file and if requested submit to the AHJ.

41.2.1.10 Management or designated agent shall select contractors to perform welding who provide trained and qualified personnel, and who have an awareness of the risks involved. [ANSI Z49, 2012]

41.2.2 Replace with the following:

41.2.2 Permit Authorizing Individual (PAI). In conjunction with management and in consultation with the AHJ if required, the PAI shall be responsible for the safe operation of hot work activities.

41.2.3(4) Add:

(4) The hot work operator shall be permitted to be the PAI, however, in those cases, the hot works operator shall not be permitted to issue a hot work permit for the work to be performed by himself, *see* the provisions of *Section 41.4(1) or 41.4(2)*.

41.2.4.8 through **41.2.4.8.1** Add:

41.2.4.8 A fire watch, when required, shall be maintained for at least 1 hour after completion of hot work operations in order to detect and extinguish smoldering fires. The duration of the fire watch shall be permitted to be extended if the PAI or the AHJ determines the fire hazards warrant the extension.

41.2.4.8.1 More than one fire watch shall be required if determined by the AHJ that combustible materials could be ignited by the hot work operation which cannot be directly observed by the initial fire watch.

41.2.5.1 Add:

41.2.5.1 Certificates. A hot work training certificate shall be carried on person at all times, and shall be produced upon request.

41.3.5.1 Replace with the following:

41.3.5.1 Before a hot work permit is issued the following conditions in *41.3.5.1.1* through *41.3.5.1.15* shall be verified by the PAI, and with the AHJ if required.

41.3.5.1.1 Replace with the following: