

CHAPTER 18C
STANDARDS FOR FIRE SERVICE TRAINING
AND CERTIFICATION

Authority

N.J.S.A. 52:27D-25d, 52:27D-198 and 52:27D-219.
N.J.S.A. 52:27D-198, 201 and 219.

Source and Effective Date

R.1995 d.58, effective January 3, 1995.
See: 26 N.J.R. 4258(a), 27 N.J.R. 878(b).

Executive Order No. 66(1978) Expiration Date

Chapter 18C, Standards For Fire Service Training and Certification, expires on January 3, 2000.

Chapter Historical Note

Chapter 18C, Standards for Fire Service Training and Certification, was adopted as R.1990 d.114, effective February 5, 1990. See: 21 N.J.R. 1655(a), 22 N.J.R. 337(c). Pursuant to Executive Order No. 66(1978), Chapter 18C was readopted as R.1995 d.58. See: Source and Effective Date. Subchapter 6, Hazardous Materials/Incident Commander Certifications, became effective March 4, 1996. See: 27 N.J.R. 1845(a), 28 N.J.R. 1377(b). See, also, section annotations.

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SUBCHAPTER 1. GENERAL PROVISIONS

5:18C-1.1 Title; division into subchapters

(a) The rules contained in this chapter shall be known as "Standards for Fire Service Training and Certification" and are referred to herein as the Standards.

(b) The Standards are divided into five parts:

1. Subchapter 1 is entitled "General Provisions" and may be cited throughout the Standards as N.J.A.C. 5:18C-1, and when referred to in subchapter 1 of this chapter, may be referred to as this subchapter.

2. Subchapter 2 is entitled "Educational Programs and Facilities" and may be cited throughout the Standards as N.J.A.C. 5:18C-2, and when referred to in subchapter 2 of this chapter, may be referred to as this subchapter.

3. Subchapter 3 is reserved.

4. Subchapter 4 is entitled "Firefighter I" and may be cited throughout the Standards as N.J.A.C. 5:18C-4, and when referred to in subchapter 4 of this chapter, may be referred to as this subchapter.

5. Subchapter 5 is entitled "Instructor" and may be cited throughout the Standards as N.J.A.C. 5:18C-5, and when referred to in subchapter 5 of this chapter, may be referred to as this subchapter.

5:18C-1.2 Authority

These Standards are promulgated by the Commissioner of Community Affairs pursuant to the authority of the Uniform Fire Safety Act (P.L. 1983, c.383, N.J.S.A. 52:27D-192 et seq., specifically 52:27D-198 and 52:27D-219) and of the act which establishes a Division of Fire Safety in the Department of Community Affairs (P.L. 1983, c.382, amended by P.L. 1993, c.218; N.J.S.A. 52:27D-25a et seq., specifically 52:27D-25d).

Administrative change.
See: 27 N.J.R. 2886(b).

5:18C-1.3 Intent and purpose

(a) It is the intent of the Standards to control all matters relating to qualifications for, and the training and certification of all members of the fire service, including firefighters and officers engaged in, or to be engaged in, fire suppression activities, and all fire service instructors.

(b) The Uniform Fire Safety Act and related legislation, specifically N.J.S.A. 52:27D-25a et seq., have been adopted to ensure public safety and welfare. In order for fire suppression activities to be conducted adequately and effectively, members of the fire service will need to have sufficient knowledge and competence. This can best be achieved through the creation of an education and training program and the development of certification requirements.

1. It is the purpose of this chapter to establish standards and procedures for the certification of persons involved in fire suppression activities including but not limited to firefighter recruits, firefighters, fire officers, and fire service instructors.

(c) Unless otherwise specifically provided, all references to article or section numbers or to provisions not specifically identified by number, shall be construed to refer to such article, section or provision of this chapter.

5:18C-1.4 Definitions

The following terms shall have the meanings indicated except where the context clearly requires otherwise:

“Commission” means the Fire Safety Commission created under N.J.S.A. 52:27D-25a et seq.

“Commissioner” means the Commissioner of the Department of Community Affairs or his or her delegate.

“Council” means the Training and Education Advisory Council created to advise the Commission under the provisions of N.J.S.A. 52:27D-25a et seq.

“Department” means the Department of Community Affairs.

“Division” means the Division of Fire Safety of the Department of Community Affairs.

“Shall” indicates a mandatory requirement.

“Should” indicates a recommendation or that which is advised but not required.

Amended by R.1993 d.628, effective December 6, 1993.
See: 25 N.J.R. 4363(a), 25 N.J.R. 5466(a).

5:18C-1.5 Office established; hearings

(a) There is hereby established in the Division of Fire Safety an Office of Training and Certification. The office shall consist of such employees of the Department of Community Affairs as may be required for the efficient implementation of this chapter.

(b) The Office shall have the following responsibilities in addition to all others provided in this chapter:

1. To issue such certifications as may be called for herein when warranted and to affix the seal of the Commissioner thereon;

2. To keep accurate records of all applications for a certification and any official action thereon and to make such records available for inspection by the public at all reasonable times; and

3. To suspend or revoke a certification provided for herein upon the establishment of good cause.

(c) Any person aggrieved by any notice, action, ruling or order of the Commissioner, with respect to this chapter, shall have a right to a hearing before the Office of Administrative Law, in accordance with the Administrative Procedure Act, N.J.S.A. 52:14B-1 et seq., and the Uniform Administrative Procedure Rules, N.J.A.C. 1:1. The final decision in any such case shall be issued by the Commissioner.

1. The aggrieved person must request a hearing. The request must be made within 15 days after receipt of the action or ruling being contested. The request shall be made to the Hearing Coordinator, Department of Community Affairs, CN 802, Trenton, NJ 08625. The request for hearing shall raise all issues that will be set forth at the hearing.

Amended by R.1993 d.628, effective December 6, 1993.
See: 25 N.J.R. 4363(a), 25 N.J.R. 5466(a).

5:18C-1.6 Certifications required

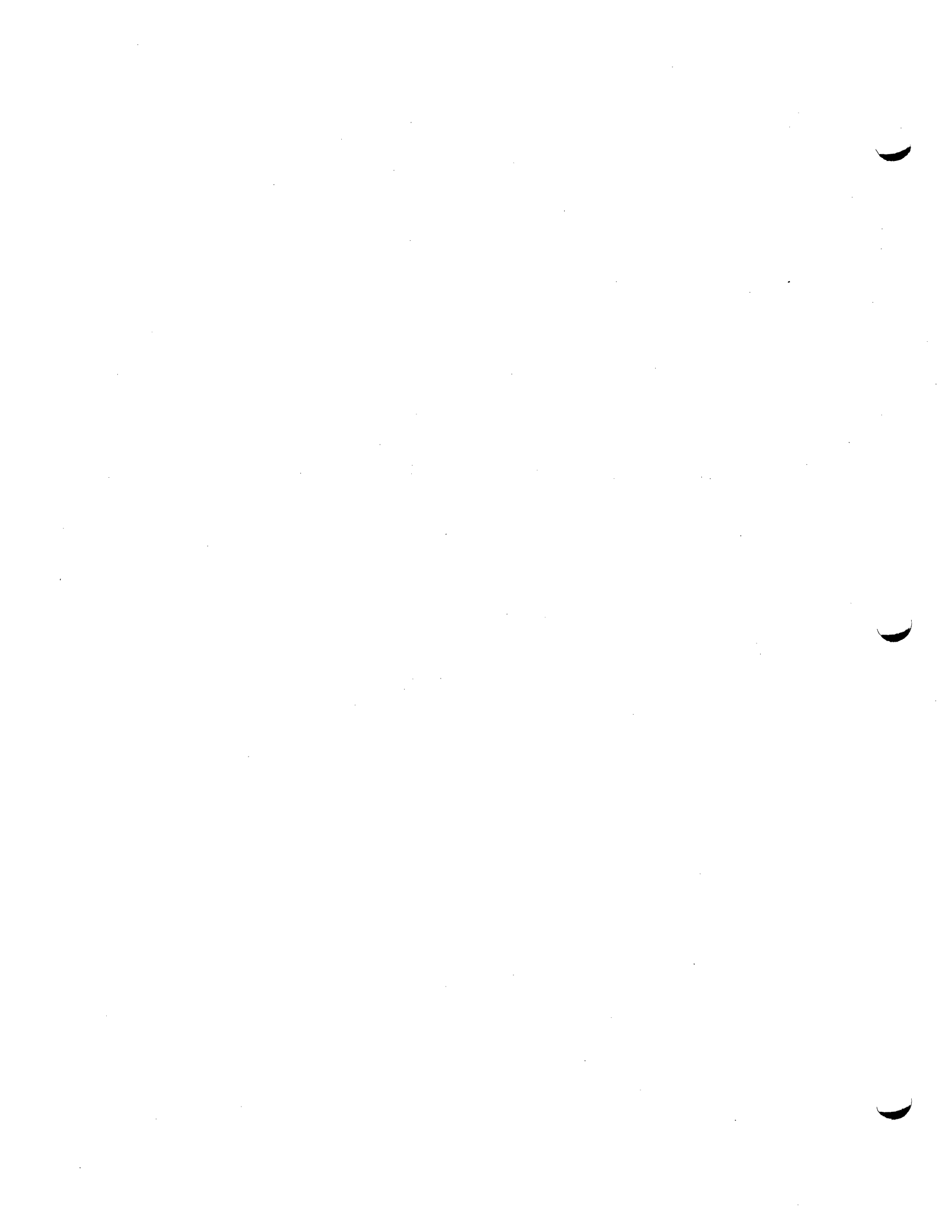
No person shall serve as a fire service instructor for any module if such person does not have at least the level of instructor certification and/or special instructor certificate required pursuant to this chapter for the teaching of such module. Except as may otherwise be expressly provided in this chapter, no course taught by any person not so certified shall serve as a basis for credit towards certification as a fire inspector or fire official.

5:18C-1.7 Requirements for certification

(a) Any candidate for certification in any of the fire service areas pursuant to the chapter shall submit an application to the Office of Training and Certification in the Division of Fire Safety, accompanied by the required fee established at N.J.A.C. 5:18C-1.10. The application shall include such information and documentation as the Office may require.

(b) The Office shall determine by examination of the application and review of any supporting documents, including any evidence of experience, training and/or education submitted whether an applicant is qualified for certification for which the application has been made. If the application is satisfactory, the Office shall issue a certification to the applicant upon payment of the required fee. This certification will show that the person has met the established requirements and is entitled to be employed in the state in accordance with the provisions of these regulations. The Office may deny or refuse to issue a certification to an applicant upon proof that there has been any act or omission which would constitute grounds for revocation under this chapter.

Amended by R.1993 d.628, effective December 6, 1993.
See: 25 N.J.R. 4363(a), 25 N.J.R. 5466(a).



2. Place the name of the institution and the course on the Division's list of approved courses. That list shall be made available to the public.

i. Any approval shall be limited in that it is effective only as long as the course conforms to the application submitted and approved.

(e) Whenever a course or program has been approved by the Division, the institution or organization offering the course may include the statement "This course is approved for credit toward a certification issued by the Department of Community Affairs" in any catalog, bulletin or informational circulars. Whenever such a statement is included, however, the catalog, bulletin or circular shall also contain a statement describing precisely the nature and extent of the approval.

(f) The Office of Training and Certification may revoke its approval, after due notice and the opportunity to be heard, whenever it ascertains that a course has lapsed, is no longer in conformity with the requirements of this chapter or the terms of the Division's approval or for other good cause. Whenever approval has been revoked or a course or module has been withdrawn by an institution or organization, a new application and approval shall be required before the course or module may again be offered as providing credit toward a certification.

(g) Any institution or organization may submit an application for approval for a course administered after January 1, 1989 so that applicants may receive credit for it. Any such application shall be judged against the standards for programs established herein.

Amended by R.1993 d.628, effective December 6, 1993.
See: 25 N.J.R. 4363(a), 25 N.J.R. 5466(a).

5:18C-2.4 Facility requirements

(a) In order to provide firefighter training, the facilities must be adequate. The requirements of this section are the minimum requirements for firefighter training facilities.

(b) Classroom Level A requirements are as follows:

1. A separate classroom for instruction shall be provided. The classroom size shall adequately accommodate the number of students.

i. For classroom training for modules for firefighter 1, a meeting hall or large room will be accepted as an alternative to a separate classroom.

2. The following are required:

- i. Adequate lighting;
- ii. A writing surface for each student;
- iii. Sufficient chairs for students;
- iv. A chalkboard, or large pad with easel;

- v. Access to overhead projector and screen;
- vi. Adequate space for each student;
- vii. Comfortable room temperature;
- viii. Access to sanitary facilities;
- ix. Sufficient electrical outlets for use of training aids; and
- x. The classroom must be in a quiet area, that is, removed from disturbances.

(c) Drill Area A requirements are as follows:

1. The area to be provided for drills shall be sufficient to allow hands-on practice by all students. Sufficient area shall be provided for the following activities:

- i. The tying of knots;
- ii. The carrying and raising of ladders;
- iii. The rolling and loading, carrying and dragging and coupling of hose; and
- iv. The practice of salvage operations.

2. The following practice aids shall be available:

- i. A fire hydrant or other water source;
- ii. A sprinkler connection or simulated sprinkler connection; and
- iii. Simulated roof area and sufficient practice boards to practice venting through roofs.

3. The following materials shall be available:

- i. Fire hose, couplings and tools as specified in N.J.A.C. 5:18C-4.3(a)12vi;
- ii. Forcible entry tools as specified in N.J.A.C. 5:18C-4.3(a)3vi;
- iii. Salvage covers as specified in N.J.A.C. 5:18C-4.3(e)10vi;
- iv. Lengths of rope as specified in N.J.A.C. 5:18C-4.3(a)8vi;
- v. Ladders as specified in N.J.A.C. 5:18C-4.3(a)16vi;
- vi. PEOSHA approved breathing apparatus for each student;
- vii. PEOSHA approved personal protective clothing for each student;
- viii. Materials for rescue drills as specified in N.J.A.C. 5:18C-4.3(a)21vi; and
- ix. Wedges or sprinkler tongs as specified in N.J.A.C. 5:18C-4.3(a)23vi.

(d) Classroom Level B: (Reserved).

(e) Drill Area Level B: (Reserved).

(f) Smoke building requirements are as follows:

1. The purpose of the structurally safe smoke building is to acquaint the trainees with the skills and abilities necessary for survival in an oxygen deficient atmosphere by creating a controlled learning situation that is under constant supervision.

2. The smoke building shall meet the following requirements:

i. There shall be an exterior exit or secondary means of egress on every floor;

ii. The smoke building shall be equipped for simulating smoke filled atmosphere and conditions;

iii. The building shall be so designed and equipped so as to allow for constant surveillance of the trainees; and

iv. There shall be a means to provide emergency ventilation which may include automatic or manual control of roof openings, doors and exterior windows.

3. Smoke used should be of a controlled composition with minimum toxicity. Specially designed mechanical equipment may be installed in the facility to produce smoke.

(g) Drill tower requirements are as follows:

1. The purpose of the drill tower is to train fire fighters in basic evolutions using pumper and ladder equipment;

2. The tower shall meet the following requirements.

i. It shall be not less than two stories in height;

ii. It shall be suitable for use with ladders and rescue equipment;

iii. It shall be so designed as to permit raising, lowering, and maneuvering of hose lines and other equipment;

iv. It may be of wood frame, reinforced concrete, steel or other durable material;

v. It shall have structurally sound interior and exterior walls which will withstand the force of master streams;

vi. It shall contain stairways which provide means of access between floor levels;

vii. All stairway treads should be slip resistant;

viii. The drill tower should include provisions for standpipe connections at all floor levels of the facility;

ix. Roof openings should be provided for practice of ventilation procedures;

x. Safety railings should be provided for roof operations; and

xi. A temporary or permanent safety net on at least one exterior side of the building should be provided.

(h) Live burn facility requirements are as follows:

1. The following apply to burn buildings:

i. The purpose of the burn building is to safely train firefighters in methods of interior fire suppression. Every floor shall have an exterior exit or a second means of egress.

ii. Walls, floors, ceilings, and other permanent features shall have strong resistance to heat generated by Class A materials.

iii. Class B materials shall not be used for fuel except when part of an engineered and designed system, such as propane or natural gas simulation, certified by the manufacturer as having been installed and maintained in accordance with the manufacturer's instructions and recommendations.

iv. Emergency ventilation should be provided by automatic or manual control of the roof openings, doors, and exterior shuttered windows.

2. The following apply to the flammable liquid and flammable gas area:

i. This area should be located as remote from any building as possible. Fencing and/or curbing should be provided as a safety factor.

ii. Pit aprons should be made of concrete, crushed stone, iron ore slag.

iii. There shall be adequate water supply, fuel supply, fuel pumping capability and drainage.

iv. If flammable liquid or gas is fed to an area, the flow shall be controlled by quick shutoff valves. In case of an emergency, an instantaneous shutdown will be necessary.

(i) The following relate to exemptions:

1. An exemption from the training facility requirements may be made upon the following findings:

i. There is no facility in the immediate area where the training can be provided or there are minimum facilities in the area and all prospective applicants cannot be accommodated; and

ii. That alternative training in the form of simulation or other method will be provided which will provide, to the greatest extent possible the same practice/drill opportunity.

2. An application for exemption to this section shall be filed in writing and set forth specifically:

- i. A statement of the requirements from which an exemption is sought;
- ii. A statement of the manner by which strict compliance with said provisions would result in practical difficulties; and
- iii. A statement of the feasible alternatives which would adequately provide the same practice/drill opportunity.

Amended by R.1995 d.59, effective March 6, 1995.
See: 26 N.J.R. 4249(a), 27 N.J.R. 891(a).

SUBCHAPTER 3. (RESERVED)

SUBCHAPTER 4. FIREFIGHTER I

5:18C-4.1 Duties and responsibilities of firefighter I

(a) A certified firefighter I shall work under direct supervision.

(b) Prior to receiving a certification as firefighter I, firefighter candidates grade 1 and grade 2 may perform the designated functions after completing the following modules:

1. Upon successful completion of modules 1, 3a, 3b, 6a, 6b, 8a, 8b, 13a, 13b and 14 as described in N.J.A.C. 5:18C-4.3, an individual shall receive a certification as a firefighter candidate grade 1 and may, under direct supervision, respond to fire alarms and assist in exterior firefighting involving laying and connecting hose lines and raising ladders.
2. Upon successful completion of modules 2a, 2b, 4a, 4b, 5a, 5b, 11a, 11b, 12, and 15 as described in N.J.A.C. 5:18C-4.3, an individual shall receive a certification as a firefighter candidate grade 2 and may, under direct supervision, assist with all exterior fireground operations.
3. Upon successful completion of all modules in N.J.A.C. 5:18C-4.3, an individual shall receive a certification as a firefighter I and may perform interior structural firefighting under direct supervision.

5:18C-4.2 Firefighter I certification

(a) A certification for firefighter I shall be granted to an individual who is at least 18 years of age and has met any one of the following requirements:

1. Shall have been an active member of a fire department for a period of not less than 18 months prior to July 1, 1994. Proof of active membership in a fire department

shall be verified by a letter from the chief of the department on fire department letterhead;

2. Shall have completed, prior to July 1, 1994, a course of instruction approved in accordance with N.J.A.C. 5:18C-2.3(g); or

3. Has met all of the following requirements:

- i. Has successfully completed all instructional modules listed in N.J.A.C. 5:18C-4.3;
- ii. Has taken and passed a written examination as established by N.J.A.C. 5:18C-4.4(a); and
- iii. Has successfully passed a skills test as established by N.J.A.C. 5:18C-4.4(b).

Amended by R.1993 d.440, effective September 7, 1993.
See: 25 N.J.R. 1846(a), 25 N.J.R. 4071(b).

5:18C-4.3 Training requirements

(a) An applicant for firefighter I certification shall have satisfactorily completed instructional modules conforming to the following standards:

1. Module 1: Orientation/Fire Department Organization
 - i. Facility requirements: Classroom Level A per N.J.A.C. 5:18C-2.4(b);
 - ii. Instructor requirements: Instructor Level 1 certification;
 - iii. Examination: written;
 - iv. Hours required: three classroom hours of which one hour must be devoted to fire prevention;
 - v. Subject areas:
 - (1) Fire department history, development;
 - (2) Organizational structure/chain of command;
 - (3) Firefighter candidate duties and responsibilities;
 - (4) Local department form of organization (municipal department, fire district, volunteer non-profit, other) and how it relates to local government structure;
 - (5) Area covered by local department geographical boundaries;
 - (6) Standard operating procedures of department;
 - (7) Training program overview;
 - (8) PEOSHA requirements;
 - (9) Familiarization of training facilities;
 - (10) New Jersey Motor Vehicle Laws with respect to emergency vehicles and blue light law;
 - (11) Right-to-know law; and

(12) Fire Prevention.

vi. Required materials:

- (1) Copy of ordinance, certificate of incorporation or other document creating fire department;
- (2) Map showing geographical boundaries of fire department;
- (3) "Right to Know" brochure; and
- (4) Copy of Hazardous Substance Fact Sheet.

2. Module 2a: Forcible Entry

i. Facility requirements: Classroom Level A per N.J.A.C. 5:18C-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: three classroom;

v. Subject areas:

- (1) Reasons for forcible entry;
- (2) Identification and major function of the following forcible entry tools:
 - i. Pick head ax;
 - ii. Flat head ax;
 - iii. Halligan bar;
 - iv. Circular saw;
 - v. Bolt cutters;
 - vi. Pike pole;
 - vii. Wrecking bar;
 - viii. Ceiling hook;
 - ix. Sledge hammer; and
 - x. All other tools used by the local fire department;
- (3) Safety requirements for tool usage and carrying;
- (4) Maintenance and inspection of tools;
 - (A) Testing of tools; and
 - (B) Cleaning tools;
- (5) Methods of forcible entry:
 - (A) Through doors;
 - (B) Through windows;
 - (C) Through roofs;
 - (D) Through floors and ceilings; and
 - (E) Through walls;

(6) Forcible entry safety precautions;

vi. Required materials:

- (1) Pick head ax;
- (2) Flat head ax;
- (3) Halligan bar;
- (4) Circular saw;
- (5) Bolt cutters;
- (6) Pike pole;
- (7) Wrecking bar;
- (8) Ceiling hook;
- (9) Sledge hammer; and
- (10) All other tools used by the local fire department.

3. Module 2b: Forcible Entry Drill

i. Facility requirements: Drill Area Level A per N.J.A.C. 5:18C-2.4(c);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: skills test;

iv. Hours required: three drill hours;

v. Subject areas: The firefighter 1 candidate must be able to perform the skill in the areas listed below. Performance will be determined by using skill evaluation forms provided by the Office of Training and Certification.

(1) Demonstrate the function of each tool listed below by simulating the use of the tool on teaching aid:

- (A) Pick head ax;
- (B) Flat head ax;
- (C) Halligan bar;
- (D) Circular saw;
- (E) Bolt cutters;
- (F) Pike pole;
- (G) Wrecking bar;
- (H) Ceiling hook; and
- (I) Sledge hammer;

(2) Demonstrate the methods of opening various types of windows;

(3) Demonstrate safety procedures to be followed in use of equipment;

(4) Demonstrate methods of properly cleaning, maintaining and inspecting each type of forcible entry tool and equipment;

(5) Identify each forcible entry tool;

vi. Required materials and tools:

(1) Pick head ax;

(2) Flat head ax;

(3) Halligan bar;

(4) Circular saw;

(5) Bolt cutters;

(6) Pike pole;

(7) Wrecking bar;

(8) Ceiling hook; and

(9) Sledge hammer;

vii. Prerequisite: Module 2a—Forcible Entry.

4. Module 3a: Protective Breathing Apparatus

i. Facility requirements: Classroom Level A per N.J.A.C. 5:18C-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification and SCBA/Smokehouse certificate;

iii. Examination: written;

iv. Hours required: three classroom;

v. Subject areas:

(1) Respiratory hazards encountered by firefighters;

(2) Types of required breathing apparatus;

(3) Mechanical operating procedures for breathing equipment;

(4) Inspection, testing and servicing procedures for breathing equipment;

(5) Physical requirements of wearer;

(6) Major components, purpose, use and limitations of breathing equipment;

(7) Methods of donning breathing equipment;

(8) Safety rules for use of breathing equipment;

(9) Use of safety lines;

(10) PEOSHA requirements for breathing equipment;

(11) "Right to Know" requirements; and

(12) Emergency operating techniques;

vi. Required materials:

(1) PEOSHA approved breathing apparatus for demonstration.

5. Module 3b: Protective Breathing Apparatus Drill 1

i. Facility Requirements: Drill Area Level A per N.J.A.C. 5:18C-2.4(c);

ii. Instructor requirements: Instructor Level 1 certification and SCBA/Smokehouse certificate;

iii. Examination: skills test;

iv. Hours required: three drill hours;

v. Subject areas: The firefighter 1 candidate must be able to perform the skill in the areas listed below. Performance will be determined by using skill evaluation forms provided by the Office of Training and Certification.

(1) Demonstrate donning breathing apparatus in full turn out gear;

(2) Demonstrate care, maintenance and testing of breathing apparatus;

(3) Demonstrate operation of breathing equipment;

(4) Demonstrate use of tag line; and

(5) Identify parts of breathing apparatus;

vi. Required materials and tools:

(1) PEOSHA-approved breathing apparatus for each student; and

(2) PEOSHA-approved personal protective clothing for each student;

vii. Prerequisite: Module 3a—Protective Breathing Apparatus.

6. Module 3c: Protective Breathing Apparatus Drill 2

i. Facility requirements: Smoke building per N.J.A.C. 5:18C-2.4(f);

ii. Instructor requirements: Instructor Level 2 certification and SCBA/Smokehouse certificate;

iii. Examinations: skills test;

iv. Hours required: three drill hours;

v. Subject areas: The firefighter 1 candidate must be able to perform the skill in the area listed below. Performance will be determined by using skill evaluation forms provided by the Office of Training and Certification.

(1) Demonstrate search and rescue techniques as a member of a team under simulated conditions:

(A) One room search; and

(B) Whole building search; and

(2) Demonstrate use of equipment in dense smoke environment;

vi. Required materials and tools:

(1) PEOSHA-approved breathing apparatus for each student; and

(2) PEOSHA-approved personal protective clothing for each student;

vii. Prerequisites:

(1) Module 3a—Protective Breathing Apparatus; and

(2) Module 3b—Protective Breathing Apparatus Drill 1.

7. Module 4a: Ropes and Knots

i. Facility requirements: Classroom Level A per N.J.A.C. 5:18C-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: one-half classroom;

v. Subject areas:

(1) Use of rope in the fire service;

(2) Care and maintenance of rope;

(3) Types and uses of following knots:

(A) Square knot;

(B) Becket bend;

(C) Clove hitch;

(D) Figure 8 knot;

(E) Bowline;

(F) Bowline-on-a-bight; and

(G) Chimney hitch;

(4) Types and characteristics of rope; and

(5) Methods of using rope to hoist tools;

vi. Required materials:

(1) Pieces of practice rope at least six feet in length; and

(2) One or more 100 feet or longer sections of one-half inch rope.

8. Module 4b: Ropes and Knots Drill

i. Facility requirements: Drill Area Level A per N.J.A.C. 5:18C-2.4(c);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: skills test;

iv. Hours required: two and one-half drill hours

v. Subject areas: The firefighter 1 candidate must be able to perform the skill in the area listed below. Performance will be determined by using skill evaluation forms provided by the Office of Training and Certification.

(1) Demonstrate procedure for inspecting rope;

(2) Demonstrate tying the following knots;

(A) Square knot;

(B) Becket band;

(C) Clove hitch;

(D) Figure 8 knot;

(E) Bowline;

(F) Bowline-on-a-bight; and

(G) Chimney hitch;

(3) Demonstrate storing, bagging and coiling rope;

(4) Using an approved knot, hoist a forcible entry tool up a ladder to a height of at least 20 feet;

vi. Required materials and tools:

(1) Pieces of practice rope at least six feet in length; and

(2) One or more 100 feet or longer sections of one-half inch rope;

vii. Prerequisite: Module 4a—Ropes and Knots.

9. Module 5a: Salvage and Overhaul

i. Facility requirements: Classroom Level A per N.J.A.C. 5:18C-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: One Classroom;

v. Subject areas:

(1) Definition and purpose of salvage and overhaul;

(2) Salvage and overhaul terminology;

(3) Salvage organization and duties;

(4) Types of salvage equipment, including covers and tools;

(5) Methods of inspecting, cleaning, maintaining and storing salvage equipment;

(6) Methods of folding and spreading salvage covers;

(7) Methods of handling water removal and handling water run-off;

(8) Techniques for removing debris from the building and restoring the premises;

(9) Techniques for searching for and extinguishing hidden fires; and

(10) Safety precautions during overhaul.

10. Module 5b: Salvage and Overhaul Drill

i. Facility requirements: Drill Area A per N.J.A.C. 5:18C-2.4(c);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: skills test;

iv. Hours required: three drill hours;

v. Subject areas: The firefighter 1 candidate must be able to perform the skill in the area listed below. Performance will be determined by using skill evaluation forms provided by the Office of Training and Certification.

(1) Demonstrate folding and spreading salvage covers:

(A) One person roll and spread;

(B) Two person roll and spread; and

(C) Two person fold;

(2) Demonstrate proper procedures for inspecting, cleaning, maintaining and storing salvage equipment;

(3) Demonstrate methods of removing and routing water from a structure;

(4) Demonstrate the construction and use of a water chute and catch all;

vi. Required materials:

(1) Salvage covers of assorted sizes;

vii. Prerequisite: Module 5a—Salvage and Overhaul.

11. Module 6a: Fire Hose, Nozzles, and Appliances

i. Facility requirements: Classroom Level A per N.J.A.C. 5:18C-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: three classroom;

v. Subject areas:

(1) Types, construction and use of hose, and nozzles;

(2) Inspection, testing and maintenance of hose;

(3) Types and uses of coupling attachments;

(4) Advancing and operating hose line;

(5) Hydrant hookup and operation;

(6) Types of hose lays;

(7) Hose carries, drags and rolls;

(8) Techniques of connecting hose to standpipe and operating hose from a standpipe;

(9) Methods of replacing burst section of hose line;

(10) Techniques of advancing a hose up a ladder and hoisting hose;

(11) Methods and techniques of advancing a hose from a pumper; and

(12) Methods of loading fire hose on an apparatus.

12. Module 6b: Fire Hose, Nozzles and Appliances Drill 1

i. Facility requirements: Drill Area Level A per N.J.A.C. 5:18C-2.4(c);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: skills test;

iv. Hours required: three drill hours;

v. Subject areas: The firefighter 1 candidate must be able to perform the skill in the areas listed below. Performance shall be determined by using skill evaluation forms provided by the Office of Training and Certification.

(1) Demonstrate the connection of a fire hose to a hydrant;

(2) Demonstrate the proper procedure for cleaning hose, couplings and nozzles;

(3) Demonstrate inspecting and testing hose for damage and recommend replacement or repairs;

(4) Demonstrate at least three hose rolls;

(5) Demonstrate at least two hose carries;

(6) Demonstrate at least two hose drags;

(7) Demonstrate hose lays;

(8) Demonstrate the methods for extending a hose line and replacing a burst section;

(9) Demonstrate the use of nozzles, hose adaptors and appliances;

(10) Demonstrate the loading of a hose on the fire apparatus; and

(11) Demonstrate making hose connections;

vi. Required materials:

- (1) Several hundred feet of hose used locally;
- (2) Nozzles;
- (3) Access to a fire hydrant; and
- (4) Spanner and hydrant wrenches;

vii. Prerequisite: Module 6a—Fire Hose, Nozzles and Appliances

13. Module 6c: Fire Hose, Nozzles and Appliances Drill 2

i. Facility requirements: Drill Tower per N.J.A.C. 5:18C-2.4(g);

ii. Instructor requirements: Instructor Level 2 certification;

iii. Examination: skills test;

iv. Hours required: six drill hours;

v. Subject areas: The firefighter 1 candidate must be able to perform the skill in the area listed below. Performance shall be determined by using skill evaluation forms provided by the Office of Training and Certification.

(1) The firefighter 1 candidate, given the necessary equipment and operating as an individual and as a member of a team, shall advance dry hose lines of two different sizes, both of which shall be one and one-half inch or larger from a pumper:

- (A) Into a structure;
- (B) Up a ladder into an upper floor window;
- (C) Up an inside stairway to an upper floor;
- (D) Up an outside stairway to an upper floor;
- (E) Down an inside stairway to a lower floor;
- (F) Down an outside stairway to a lower floor; and

(G) To an upper floor by hoisting;

(2) The firefighter 1 candidate, given the necessary equipment and operating as an individual and as a member of a team, shall advance charged attack lines of two different sizes, both of which shall be one and one-half inch or larger from a pumper:

- (A) Into a structure;
- (B) Up a ladder into an upper floor window;
- (C) Up an inside stairway to an upper floor;
- (D) Up an outside stairway to an upper floor;
- (E) Down an inside stairway to a lower floor;

(F) Down an outside stairway to a lower floor; and

(G) To an upper floor by hoisting;

(3) The firefighter 1 candidate shall demonstrate working from a ladder with a charged attack line which shall be one and one-half inch or larger;

vi. Required materials:

- (1) Several hundred feet of hose used locally;
- (2) Extension ladders;
- (3) Rope hose tools;
- (4) Nozzles;
- (5) Hose hoist; and
- (6) Rope;

vii. Prerequisites:

- (1) Module 6a—Fire Hose, Nozzles and Appliances; and
- (2) Module 6b—Fire Hose, Nozzles and Appliances Drill 1;
- (3) Module 13a—Safety;
- (4) Module 13b—Safety Drill;
- (5) Module 8a—Ladders;
- (6) Module 8b—Ladder Drill 1; and
- (7) Module 8c—Ladder Drill 2.

14. Module 7: Fire Streams

i. Facility requirements: Classroom Level A per N.J.A.C. 5:18C-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: three classroom;

v. Subject areas:

(1) Definition of fire streams and fire stream technology;

(2) Requirements, principles and characteristics of fire streams;

(3) Methods of producing fire streams;

(4) Design, use and operation of various types of nozzles;

(5) Water as an extinguishing agent;

(6) Conditions that cause pressure loss in hose; and

(7) Definition of water hammer and means of prevention;

- vi. Prerequisites:
 - (1) Module 6a—Fire Hose, Nozzles and Appliances; and
 - (2) Module 6b—Fire Hose, Nozzles and Appliances Drill 1.
- 15. Module 8a: Ladders
 - i. Facility requirements: Classroom Level A per N.J.A.C. 5:18C-2.4(b);
 - ii. Instructor requirements: Instructor Level 1 certification;
 - iii. Examination: written;
 - iv. Hours required: one classroom;
 - v. Subject areas:
 - (1) Types of ladders and ladder terminology;
 - (2) Ladder construction and use;
 - (3) Methods of ladder visual inspection and maintenance;
 - (4) Methods of removing ladders from apparatus;
 - (5) Methods of carrying and manipulating ground ladders;
 - (6) Proper ladder placement;
 - (7) Methods of raising and climbing ladders;
 - (8) Methods of securing ladders;
 - (9) Equipment and techniques to safely work while on ladders;
 - (10) Methods of assisting victims down a ladder, ladder rescue;
 - (11) Ladder safety;
 - (12) Methods of advancing a hose up a ladder; and
 - (13) Techniques of using a charged line from a ladder.
- 16. Module 8b: Ladders Drill 1
 - i. Facility requirements: Drill Area Level A per N.J.A.C. 5:18C-2.4(c);
 - ii. Instructor requirements: Instructor Level 1 certification;
 - iii. Examination: skills test;
 - iv. Hours required: three drill hours;
 - v. Subject areas: The firefighter 1 candidate must be able to perform the skill in the area listed below. Performance shall be determined by using evaluation forms provided by the Office of Training and Certification.
 - (1) Demonstrate visual inspection for different types of ladders;
 - (2) Demonstrate proper procedure for cleaning ladders;
 - (3) Demonstrate ladder carries:
 - (A) One person;
 - (B) Two persons;
 - (C) Three persons;
 - (D) Four persons;
 - (E) Five persons; and
 - (F) Six persons;
 - (4) Demonstrate the following ladder raises as an individual and as a team:
 - (A) Flat raise;
 - (B) Beam raise; and
 - (C) Under obstruction;
- 17. Module 8c: Ladders Drill 2
 - i. Facility required: Drill Tower per N.J.A.C. 5:18C-2.4(g);
 - ii. Instructor required: Instructor Level 2 certification;
 - iii. Examination: skills test;
 - iv. Hours required: six drill hours;
 - v. Subject areas: The firefighter 1 candidate must be able to perform the skill in the area listed below. Performance shall be determined by using skill evaluation forms provided by the Office of Training and Certification.
 - (1) Raise the following ladders:
 - (A) 12 to 14 foot roof ladder;
 - (B) 24 to 28 foot extension ladder; and
 - (C) 35 foot extension ladder;
 - (2) Climb the full length of the following ground ladders:
 - (A) 12 to 14 foot roof ladder;
 - (B) 24 to 28 foot extension ladder; and
 - (C) 35 foot extension ladder;
- vi. Required materials:
 - (1) Assorted ladders; and
 - (2) Rope;
- vii. Prerequisite: Module 8a—Ladders.

(3) Climb the 35 foot ladders carrying the following fire fighting tools and equipment:

- (A) Axe;
- (B) Pike pole; and
- (C) 14 foot roof ladder

(4) Demonstrate the methods of working from a ladder with and without a life belt;

(5) Climb the full length of the ladder and demonstrate bringing an injured person down (using a training aid dummy);

(6) Using an approved knot, hoist a selected forcible entry tool and ground ladder to a height of at least 20 feet;

(7) Demonstrate the method of working from a ladder with charged lines of two different sizes, both of which shall be one and one-half inch or larger from a pumper;

(8) Demonstrate method of lowering a victim using bowline on bight rescue knot;

vi. Required materials:

(1) Ladders of the following sizes:

- (A) 12 to 14 foot roof ladder;
- (B) 24 to 28 foot extension ladder; and
- (C) 35 foot extension ladder

- (2) Life belt;
- (3) Training aid dummy for practice;
- (4) Small entry tools; and
- (5) Rope;

vii. Prerequisites:

- (1) Module 8a—Ladders;
- (2) Module 8b—Ladders Drill 1;
- (3) Module 6a—Fire Hose, Nozzles and Appliances;
- (4) Module 6b—Fire Hose, Nozzles and Appliances Drill 1
- (5) Module 13a—Safety;
- (6) Module 13b—Safety Drill;
- (7) Module 4a—Ropes and Knots; and
- (8) Module 4b—Ropes and Knots Drill.

18. Module 9a: Ventilation

i. Facility requirements: Classroom Level A per N.J.A.C. 5:18C-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification and SCBA/Smokehouse certificate;

iii. Examination: written;

iv. Hours required: three classroom;

v. Subject areas:

- (1) Definition of ventilation;
- (2) Principles of ventilation;
- (3) Advantages of ventilation;
- (4) Safety precautions;
- (5) Vertical and horizontal ventilation;
- (6) Principles and methods of forced ventilation; and
- (7) Techniques of using water fog to expel smoke and gas;

vii. Prerequisites:

- (1) Module 8a—Ladders; and
- (2) Module 8b—Ladders Drill 1;

19. Module 9b: Ventilation Drill

i. Facility requirements: Drill Area Level A per N.J.A.C. 5:18C-2.4(c);

ii. Instructor requirements: Instructor Level 1 certification and SCBA/Smokehouse certificate;

iii. Examination: skills test;

iv. Hours required: three drill hours;

v. Subject areas: The firefighter 1 candidate must be able to perform the skill in the area listed below. Performance shall be determined by using skill evaluation forms provided by the Office of Training and Certification.

- (1) Demonstrate proper method of creating a ventilation opening;
- (2) Demonstrate proper techniques of horizontal ventilation; and
- (3) Demonstrate proper techniques of mechanical ventilation;

vi. Prerequisites:

- (1) Module 3a—Protective Breathing Apparatus;
- (2) Module 3b—Protective Breathing Apparatus Drill 1;
- (3) Module 9a—Ventilation;
- (4) Module 2a—Forcible Entry; and
- (5) Module 2b—Forcible Entry Drill.

20. Module 10a: Rescue

i. Facility requirement: Classroom Level A per N.J.A.C. 5:18C-2.4(b);

ii. Instructor requirement: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: one classroom;

v. Subject areas:

(1) Situations involving rescue operations;

(2) Safety precautions during rescue;

(3) Rescue tools;

(4) Rescue procedures;

(5) Search and rescue techniques;

(6) Methods of removing victims from hazard:

(A) Carries and drags;

(B) Placing victim on stretcher; and

(C) Lowering a victim; and

(7) Elevator evacuation;

vi. Prerequisites:

(1) Module 3a—Protective Breathing Apparatus;

(2) Module 3b—Protective Breathing Apparatus Drill 1;

(3) Module 8c—Ladder Drill 2; and

(4) Module 14—Fire Behavior.

21. Module 10b: Rescue Drill

i. Facility required: Drill Area Level A per N.J.A.C. 5:18C-2.4(c);

ii. Instructor required: Instructor Level 1 certification;

iii. Examination: skills test;

iv. Hours required: three drill hours;

v. Subject areas: The firefighter 1 candidate must be able to perform the skill in the area listed below. Performance shall be determined by using evaluation forms provided by the Office of Training and Certification.

(1) Demonstrate methods of locating victims;

(2) Demonstrate procedures to be used in rescuing victim from electrical contact;

(3) Demonstrate the following carries and drags:

(A) Lone rescuer lift and carry;

(B) Extremities carry;

(C) Bunker coat or blanket drag;

(D) Hip carry—one person;

(E) Seat carry—two persons;

(F) Chair carry—two persons;

(G) Carrying stretchers; and

(H) Improvised stretcher with pike poles;

vi. Required materials:

(1) Rope;

(2) Pike poles;

(3) Blankets; and

(4) Stretchers

vii. Prerequisites:

(1) Module 3a—Protective Breathing Apparatus;

(2) Module 3b—Protective Breathing Apparatus Drill 1;

(3) Module 8c—Ladder Drill 2;

(4) Module 14—Fire Behavior;

(5) Module 10a—Rescue;

(6) Module 8a—Ladders;

(7) Module 8b—Ladders Drill 1;

(8) Module 4a—Ropes and Knots;

(9) Module 4b—Ropes and Knots Drill;

(10) Module 13a—Safety;

(11) Module 13b—Safety Drill;

(12) Module 14—Fire Behavior;

(13) Module 9a—Ventilation; and

(14) Module 9b—Ventilation Drill.

22. Module 11a: Sprinklers

i. Facility required: Classroom Level A per N.J.A.C. 5:18C-2.4(b);

ii. Instructor required: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: one classroom;

v. Subject areas:

(1) Types and components of sprinkler system;

(2) Types of and operation of sprinkler heads;

(3) Purpose and operation of fire department sprinkler connection; and

(4) Waterflow alarms.

23. Module 11b: Sprinkler Drill

i. Facility required: Drill Area Level A per N.J.A.C. 5:18C-2.4(c);

ii. Instructor required: Instructor Level 1 certification;

iii. Examination: skills test;

iv. Hours required: one drill hour;

v. Subject areas: The firefighter 1 candidate must be able to perform the skill in the area listed below. Performance shall be determined by using skill evaluation forms provided by the Office of Training and Certification.

(1) Demonstration of fire department connection; and

(2) Demonstrate shutting down individual heads using a wedge or sprinkler tongs;

vi. Required materials:

(1) Sprinkler head mounted for shut downs; and

(2) Wedge or sprinkler tongs to shut down heads;

vii. Prerequisite: Module 11a—Sprinklers.

24. Module 12: Fire Alarm and Communications

i. Facility required: Classroom Level A per N.J.A.C. 5:18C-2.4(b);

ii. Instructor required: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: one classroom;

v. Subject areas:

(1) Procedure for a person to report a fire or other emergency;

(2) Procedure for initiating an action after receiving alarm:

(A) Method of receiving and recording calls;

(B) Method of establishing location and nature of emergency;

(C) Methods of dispatching equipment and apparatus;

(3) Purpose and function of alarm receiving instruments;

(4) Purpose and function of traffic control devices;

(5) Fire alarm signals;

(6) Organization of county/local network;

(7) Policy and procedures for ordering and transmitting multiple alarms from the emergency scene; and

(8) Types of fire alarm signals

vi. Required materials:

(1) Local radio operating procedures; and

(2) County radio operating procedures where applicable.

25. Module 13a: Safety

i. Facility required: Classroom Level A per N.J.A.C. 5:18C-2.4(b);

ii. Instructor required: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: two classroom;

v. Subject areas:

(1) Protective clothing:

(A) PEOSHA requirements;

(B) Right to know requirements;

(C) Types of clothing;

(D) Care, maintenance testing and repair procedures; and

(E) Donning and wearing procedures;

(2) Types and causes of occupational injuries;

(3) Proper methods of going to and from a fire:

(A) Mounting a vehicle;

(B) Riding apparatus; and

(C) Dismounting vehicle;

(4) Safety at the fire scene:

(A) Toxic gas/respiratory hazards;

(B) Structural hazards; and

(C) Electrical hazards.

26. Module 13b: Safety Drill

i. Facility required: Drill Area Level A per N.J.A.C. 5:18C-2.4(c);

ii. Instructor required: Instructor Level 1 certification;

iii. Examination: skills test;

iv. Hours required: one hour drill;

v. Subject areas: The firefighter 1 candidate must be able to perform the skill in the area listed below. Performance will be determined by using skill evaluation forms provided by the Office of Training and Certification.

(1) Demonstrate testing and maintenance requirements for each article of personal protective equipment;

(2) Demonstrate donning personal protective equipment; and

(3) Demonstrate proper procedures for mounting and demounting a vehicle;

vi. Required materials and tools:

(1) OSHA approved personal protective clothing for each student;

vii. Prerequisite: Module 13a—Safety.

27. Module 14: Fire Behavior

i. Training facility: Classroom Level A per N.J.A.C. 5:18C-2.4(b);

ii. Instructor required: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: three classroom;

v. Subject areas:

(1) Definitions of terms used to describe fire activity;

(2) Basic theory of combustion;

(A) Fire triangle/tetrahedron; and

(B) Heat sources;

(3) Phases of a fire:

(A) Incipient;

(B) Flame spread;

(C) Hot smoldering;

(D) Flash over and backdraft;

(E) Steady state; and

(F) Clear burning;

(4) Heat transfer;

(5) Products of combustion;

(6) Common paths of fire spread;

(7) Classes of fire;

(8) Fire extinguishment theories; and

(9) Thermal balance.

28. Module 15: Portable Fire Extinguishers

i. Training facility: Classroom Level 1 per N.J.A.C. 5:18C-2.4(b);

ii. Instructor level: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: three classrooms;

v. Subject areas:

(1) Extinguisher rating system;

(2) Types of fire extinguishers and selection of extinguisher for various types of fires;

(3) Capabilities, advantages and limitations of various extinguishers;

(4) Identification of damaged or obsolete extinguishers;

(5) Proper care and inspection of fire extinguishers; and

(6) Types of extinguishing agents;

vi. Prerequisites:

(1) Module 14—Fire Behavior;

(2) Module 13a—Safety; and

(3) Module 13b—Safety Drill.

29. Module 16: Live Fire Evolution

i. Facility requirements: Live burn facility per N.J.A.C. 5:18C-2.4(h);

ii. Instructor requirements: Instructor Level 2 certification and live burn certificate;

iii. Examination: skills test;

iv. Hours required: 12 drill hours;

v. Subject areas: The firefighter 1 candidate must be able to perform the skills in the areas listed below. Performance will be determined by using skill evaluation forms provided by the Office of Training and Certification.

(1) Demonstrate manipulating a fire hose nozzle so as to attack at least two live fires, including a Class A fire and a Class B liquid fire;

(2) Demonstrate attack on automobile fire;

(3) Demonstrate the proper positioning of attack lines;

(4) Demonstrate interior fire attack;

(5) Demonstrate by simulation the use of all of the following portable extinguishers and by actual demonstration of one of the following on both a Class A and a Class B fire:

(A) Stored pressure water extinguisher;

(B) Aqueous film forming foam extinguisher;

(C) Carbon dioxide extinguishers;

(D) Dry chemical extinguishers;

(6) Demonstrate inspection of fire extinguisher;

vi. Prerequisite: All Modules.

5:18C-4.4 Examination requirements

(a) Applicants for the firefighter 1 certification shall demonstrate knowledge of the subject areas by successful completion of the firefighter 1 written examination administered through the Office of Training and Certification.

(b) Applicants for the firefighter 1 certification shall demonstrate competence by successful completion of the firefighter Level 1 skills examination administered through the Office of Training and Certification.

5:18C-4.5 Optional courses

(a) The firefighter 1 may receive additional endorsements in the following areas:

1. Module 17A: Emergency Medical Care—First Aid

i. Facility requirements: Classroom Level A per N.J.A.C. 5:18C-2.4(b);

ii. Instructor requirements: Current first aid instructor certificate issued by the American Heart Association or the American National Red Cross;

iii. Examination: No examination required—current first aid card must be submitted;

iv. Hours required: eight;

v. Subject areas:

(1) Recognize and understand treatment of fractures and splinting;

(2) Recognize and understand treatment of burns;

(3) Understand types of external and internal bleeding and its control;

(4) Understand the symptoms and treatment for various poisons;

(5) Recognize symptoms of shock and understand treatment;

(6) Understand primary and secondary survey; and

(7) Understand priority injuries.

2. Module 17B: Emergency Medical Care—CPR (Reserved)

3. Module 18: Hazardous Materials—Awareness (Reserved)

4. Module 19: Fire Pumps—(Reserved)

5. Module 20: Hazardous Materials—(Reserved)

6. Module 21: Fire Prevention—(Reserved)

7. Module 22: Arson Awareness—(Reserved)

8. Module 23: Ground Cover Fires—(Reserved)

9. Module 24: Vehicle Fires—(Reserved)

10. Module 25: Foam—(Reserved)

11. Module 26: Electric—(Reserved)

12. Module 27: Fire Service Law—(Reserved)

13. Module 28: Natural/LPG Gas—(Reserved)

14. Module 29: Marine Firefighting—(Reserved)

15. Module 30: Vehicle Extrication—(Reserved)

16. Module 31: High Hazard Buildings—(Reserved)

17. Module 32: High Rise Fires—(Reserved)

18. Module 33: Building Construction—(Reserved)

19. Module 34: Truck Company Operations—(Reserved)

20. Module 35: Below Grade/Confined Space Rescue—(Reserved)

SUBCHAPTER 5. INSTRUCTORS

5:18C-5.1 General provisions

It is the object of this subchapter to establish criteria for certification of various levels of instructors of fire service courses.

5:18C-5.2 Instructor Level 1

(a) The Instructor Level 1 may provide training for those modules or courses in this chapter where Instructor Level 1 certification is required.

(b) To obtain a certification as an Instructor Level 1, an individual shall verify a minimum of two years experience as a certified Firefighter I and shall meet the following requirements:

1. Be at least 18 years of age;

2. Satisfactorily complete the 16 hour course "Instruction Techniques: Instructor Level 1" as specified in (c) below;

3. Satisfactorily complete the 16 hour Fire Service Instructor General Safety Course as specified in (d) below;

4. Satisfactorily pass the safety skills test specified in (e) below; and

5. Satisfactorily pass the written test specified in (f) below.

(c) The following standard applies to programs designed to satisfy the requirements for the course "Instruction Techniques: Instructor Level 1":

1. Hours required: 16;