

NEW JERSEY ADMINISTRATIVE CODE

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TITLE 5. COMMUNITY AFFAIRS

CHAPTER 73. STANDARDS FOR FIRE SERVICE TRAINING AND CERTIFICATION

SUBCHAPTER 4. FIREFIGHTER I AND II

N.J.A.C. 5:73-4.3 (2012)

§ 5:73-4.3 Training requirements

(a) An applicant for Firefighter I certification shall have satisfactorily completed instructional modules utilizing the Jones and Bartlett Publishers publication titled "Fundamentals of Fire Fighter Skills, Second Edition--New Jersey Edition," and N.J.A.C. 5:73 Appendix, incorporated herein by reference, which conforms to the following standards:

1. Module 1: Orientation/Fire Department Organization:

- i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);
- ii. Instructor requirements: Instructor Level 1 certification or Adjunct Instructor certificate;
- iii. Examination: written;
- iv. Hours required: three classroom hours;
- v. Objectives: The Firefighter 1 candidate shall be able to describe the following:
 - (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;
 - (12) Fire Prevention and public education; and
 - (13) Current Federal, State and local laws, regulations and standards impacting firefighters except those covered specifically in other provisions of this section;

vi. Required materials:

- (1) Sample ordinance, certificate of incorporation or other document creating fire department;
- (2) Sample map showing geographical boundaries of fire department;
- (3) "Right to Know" brochure;
- (4) Copy of Hazardous Substance Fact Sheet; and
- (5) Copy of pertinent Federal, State and local laws, regulations and standards.

2. Module 2: Incident Management System:

i. Facility required: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor required: Instructor Level 1 certification or IMS Adjunct Instructor;

iii. Examination: written;

iv. Hours required: three classroom hours;

v. Objectives:

- (1) The Firefighter 1 candidate shall be able to list the five major organizational activities within the incident management system;
- (2) The Firefighter 1 candidate shall be able to give the titles and duties of the command and general staffs;
- (3) The Firefighter 1 candidate shall be able to list organizational units within the appropriate incident management section; and
- (4) The Firefighter 1 candidate shall be able to list the major incident facilities and their functions;

vi. Required materials:

- (1) National Wildfire Coordinating Group student manual "ICS Orientation";

3. Module 3a: Forcible Entry:

i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: three classroom hours;

v. Objectives:

- (1) The Firefighter 1 candidate shall explain reasons for forcible entry;
- (2) The Firefighter 1 candidate shall identify the major function and use of the following classes of forcible

entry tools:

(A) Cutting tools:

(I) Axes;

(II) Handsaws;

(III) Power saws; and

(IV) Metal cutting devices;

(B) Prying tools:

(I) Manual prying tools; and

(II) Hydraulic prying tools;

(C) Pushing/pulling tools;

(D) Striking tools;

(E) Combination tools; and

(F) All other tools used by the local jurisdiction.

(3) The Firefighter 1 candidate shall demonstrate and explain safety requirements for tool usage and carrying;

(4) The Firefighter 1 candidate shall demonstrate maintenance and inspection of tools;

(A) Care of tools.

(5) The Firefighter 1 candidate shall demonstrate methods of forcible entry:

(A) Through doors;

(B) Through windows;

(C) Through roofs;

(D) Through floors and ceilings; and

(E) Through walls;

(6) The Firefighter 1 candidate shall describe forcible entry safety precautions;

vi. Required materials:

(1) Cutting tools:

(A) Axes;

(B) Hand saws;

(C) Power saws; and

(D) Metal cutting devices.

(2) Prying tools:

(A) Manual prying tools; and

(B) Hydraulic prying tools.

(3) Pushing/pulling tools;

(4) Striking tools;

(5) Combination tools; and

(6) All other tools used by the local fire department.

4. Module 3b--Forcible Entry Drill:

i. Facility requirements: Drill Area Level A per N.J.A.C. 5:73-2.4(c);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: skills test;

iv. Hours required: three drill hours;

v. Objectives: 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 approved by the Office of Training and Certification;

(1) The Firefighter 1 candidate, given two different forcible entry scenarios, shall select the proper tool(s) needed and demonstrate how to effect entry;

(A) Cutting tools:

(I) Axes;

(II) Hand saws;

(III) Power saws; and

(IV) Metal cutting devices;

(B) Prying tools:

(I) Manual prying tools; and

(II) Hydraulic prying tools;

(C) Pushing/pulling tools;

(D) Striking tools; and

(E) Combination tools;

(2) The Firefighter 1 candidate, when given two scenarios, shall demonstrate various methods of opening selected types of windows;

(3) The Firefighter 1 candidate, when given two scenarios, shall describe the safety issues involved and how to perform the activity safely;

(4) The Firefighter 1 candidate, when given two forcible entry tools, shall demonstrate the appropriate after use tool care;

vi. Required materials and tools:

(1) Cutting tools:

(A) Axes;

(B) Hand saws;

(C) Power saws; and

(D) Metal cutting devices;

(2) Prying tools:

(A) Manual prying tools; and

(B) Hydraulic prying tools;

(3) Pushing/pulling tools;

(4) Striking tools;

(5) Combination tools; and

(6) All other tools used by the local jurisdiction;

vii. Prerequisite(s):

(1) Module 3a--Forcible Entry;

(2) Module 14a--Safety; and

(3) Module 14b--Safety Drill.

5. Module 4a--Self-contained Breathing Apparatus:

i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification and Drill Ground Instructor certificate;

iii. Examination: written;

iv. Hours required: three classroom hours;

v. Objectives:

(1) The Firefighter 1 candidate shall explain respiratory hazards encountered by firefighters;

(2) The Firefighter 1 candidate shall describe types of required breathing apparatus;

(3) The Firefighter 1 candidate shall describe the mechanical operating procedures for self-contained breathing equipment;

(4) The Firefighter 1 candidate shall demonstrate inspection, testing and servicing procedures for breathing equipment;

(5) The Firefighter 1 candidate shall explain the physical requirements of wearer;

(6) The Firefighter 1 candidate shall explain major components, purpose, use and limitations of breathing equipment;

(7) The Firefighter 1 candidate shall demonstrate various methods of donning, doffing and restoring to use self-contained breathing equipment;

(8) The Firefighter 1 candidate shall explain safety rules for use of self-contained breathing equipment;

(9) The Firefighter 1 candidate shall explain emergency operating techniques; and

(10) The Firefighter 1 candidate shall explain the current respiratory protection standards including Right-to-Know and the OSHA Respiratory Standard, 29 CFR 1910.134;

vi. Required materials:

(1) PEOSHA approved self-contained breathing apparatus for demonstration;

(2) OSHA Respiratory Protection Standard, 29 CFR 1910.134, and Hazardous Materials Standard, 29 CFR 1910.120;

(3) Right-to-Know Standard, N.J.A.C. 8:59-6; and

(4) PEOSHA Standard, N.J.A.C. 12:100;

6. Module 4b--Self-contained Breathing Apparatus Drill 1:

i. Facility Requirements: Drill Area Level A per N.J.A.C. 5:73-2.4(c);

ii. Instructor requirements: Instructor Level 1 certification and Drill Ground Instructor certificate;

iii. Examination: skills test;

iv. Hours required: three drill hours;

v. Objectives: 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 approved by the Office of Training and Certification;

- (1) The Firefighter 1 candidate shall demonstrate appropriate donning and doffing of self-contained breathing apparatus in full turn out gear;
- (2) The Firefighter 1 candidate shall demonstrate after use care, maintenance and testing of self-contained breathing apparatus;
- (3) The Firefighter 1 candidate shall demonstrate operation of self-contained breathing apparatus;
- (4) The Firefighter 1 candidate shall identify the major components of self-contained breathing apparatus; and
- (5) The Firefighter 1 candidate shall demonstrate emergency operating techniques;

vi. Required materials and tools:

- (1) PEOSHA-approved self-contained breathing apparatus for each student; and
- (2) PEOSHA-approved personal protective clothing for each student;

vii. Prerequisites:

- (1) Module 4a--Self-contained Breathing Apparatus;
- (2) Module 14a--Safety; and
- (3) Module 14b--Safety Drill;

7. Module 4c--Self-contained Breathing Apparatus Drill 2:

- i. Facility requirements: Smoke building per N.J.A.C. 5:73-2.4(f);
- ii. Instructor requirements: Instructor Level 2 certification and Drill Ground Instructor certificate;
- iii. Examinations: skills test;
- iv. Hours required: three drill hours;
- v. Objectives: 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 approved by the Office of Training and Certification;

(1) While wearing self-contained breathing apparatus and full personal protective equipment, the Firefighter 1 candidate shall 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) While wearing self-contained breathing apparatus and full protective equipment, the Firefighter 1 candidate shall demonstrate use of the apparatus and equipment in a dense smoke environment;

vi. Required materials and tools:

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

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

vii. Prerequisites:

(1) Module 4a--Self-contained Breathing Apparatus;

(2) Module 4b--Self-contained Breathing Apparatus Drill 1;

(3) Module 14a--Safety; and

(4) Module 14b--Safety Drill.

8. Module 5a--Ropes and Knots:

i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: one-half-hour classroom;

v. Objectives:

(1) The Firefighter 1 candidate shall explain the use of rope in the fire service;

(2) The Firefighter 1 candidate shall explain the care, storage and maintenance of rope;

(3) The Firefighter 1 candidate shall explain the uses of the following knots:

(A) Single overhand knot;

(B) Becket bend;

(C) Clove hitch;

(D) Figure 8 family; and

(E) Bowline;

(4) The Firefighter 1 candidate shall describe the following types of rope:

(A) Life Safety rope; and

(B) Utility rope;

(5) The Firefighter 1 candidate shall describe the following rope materials:

(A) Natural fiber; and

(B) Synthetic;

(6) The Firefighter 1 candidate shall describe rope construction:

- (A) Dynamic;
- (B) Static;
- (C) Laid (twisted) rope;
- (D) Braided rope;
- (E) Braid-on-braid (double-braided) rope; and
- (F) Kernmantle rope;

(7) The Firefighter 1 candidate shall describe methods of using rope to hoist and use of edge protection tools;

vi. Required materials:

- (1) Pieces of practice rope at least six feet in length;
- (2) One or more 100 feet or longer sections of one-half inch rope;
- (3) Sample edge protectors; and
- (4) Samples of the various types of rope described.

9. Module 5b--Ropes and Knots Drill:

i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: skills test;

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

v. Objectives: 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 approved by the Office of Training and Certification.

(1) The Firefighter 1 candidate shall demonstrate procedures for inspecting rope;

(2) The Firefighter 1 candidate shall demonstrate tying the following knots;

- (A) Single overhand knot;
- (B) Becket band;
- (C) Clove hitch;
- (D) Figure 8 family; and

(E) Bowline;

(3) The Firefighter 1 candidate shall demonstrate storing, bagging and coiling rope;

(4) The Firefighter 1 candidate shall, given a scenario, using an approved knot, hoist a forcible entry tool to a height of at least 20 feet;

vi. Required materials and tools:

(1) Pieces of practice rope; and

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

vii. Prerequisites:

(1) Module 5a--Ropes and Knots;

(2) Module 14a--Safety; and

(3) Module 14b--Safety Drill.

10. Module 6a--Salvage and Overhaul:

i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: One classroom hour;

v. Objectives:

(1) The Firefighter 1 candidate shall explain the definition and purpose of salvage and overhaul;

(2) The Firefighter 1 candidate shall explain salvage and overhaul terminology;

(3) The Firefighter 1 candidate shall describe salvage organization and duties;

(4) The Firefighter 1 candidate shall identify various types of salvage equipment, including covers and tools;

(5) The Firefighter 1 candidate shall explain methods of inspecting, cleaning, maintaining and storing salvage equipment;

(6) The Firefighter 1 candidate shall describe methods of folding and spreading salvage covers;

(7) The Firefighter 1 candidate shall describe methods of handling water removal and handling water run-off including natural and mechanical means;

(8) The Firefighter 1 candidate shall describe techniques for removing debris from the building and restoring the premises;

(9) The Firefighter 1 candidate shall describe techniques for searching hidden fires;

- (10) The Firefighter 1 candidate shall explain the significance of area of origin and evidence preservation;
- (11) The Firefighter 1 candidate shall explain the purpose of thermal imaging/heat sensing equipment; and
- (12) The Firefighter 1 candidate shall explain safety precautions during overhaul.

11. Module 6b--Salvage and Overhaul Drill:

i. Facility requirements: Drill Area A per N.J.A.C. 5:73-2.4(c);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: skills test;

iv. Hours required: three drill hours;

v. Objectives: 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 approved by the Office of Training and Certification.

(1) The Firefighter 1 candidate, given a scenario, shall select, place and then fold the proper salvage covers;

(2) The Firefighter 1 candidate, given a scenario, shall demonstrate proper procedures for inspecting, cleaning, maintaining and storing salvage equipment;

(3) The Firefighter 1 candidate, given a scenario, shall demonstrate methods of removing and routing water from a structure;

(4) The Firefighter 1 candidate, given a scenario, shall demonstrate the construction and use of a water chute and catch all; and

(5) The Firefighter 1 candidate, given a scenario, shall explain the use of thermal imaging/heat sensing equipment.

vi. Required materials:

(1) Salvage covers of assorted sizes;

(2) Pumps/water vacuums;

(3) Thermal imaging/heat sensing equipment; and

(4) Hand tools as required;

vii. Prerequisites:

(1) Module 6a--Salvage and Overhaul;

(2) Module 14a--Safety; and

(3) Module 14b--Safety Drill.

12. Module 7a--Fire Hose, Appliances and Adapters:

- i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);
- ii. Instructor requirements: Instructor Level 1 certification;
- iii. Examination: written;
- iv. Hours required: three classroom hours;
- v. Objectives:
 - (1) The Firefighter 1 candidate shall describe the various types, construction and use of hose;
 - (2) The Firefighter 1 candidate shall describe inspection and maintenance of hose;
 - (3) The Firefighter 1 candidate shall describe various types and uses of coupling adapters;
 - (4) The Firefighter 1 candidate shall describe advancing and operating various hose lines;
 - (5) The Firefighter 1 candidate shall describe hydrant hookup and operation;
 - (6) The Firefighter 1 candidate shall describe types of hose lays;
 - (7) The Firefighter 1 candidate shall describe various hose carries, drags and rolls;
 - (8) The Firefighter 1 candidate shall describe various techniques of connecting hose to standpipe and operating hose from a standpipe;
 - (9) The Firefighter 1 candidate shall describe the safe methods of replacing burst section or extending a hose line;
 - (10) The Firefighter 1 candidate shall describe various techniques of advancing a hose up a ladder and hoisting hose;
 - (11) The Firefighter 1 candidate shall describe various methods and techniques of connecting hose to and advancing a hose from a pumper;
 - (12) The Firefighter 1 candidate shall describe methods of loading fire hose on an apparatus;
 - (13) The Firefighter 1 candidate shall describe the purpose of various adapters and appliances utilized by the authority having jurisdiction as well as local mutual aid companies;
 - (14) The Firefighter 1 candidate shall describe the need for edge protection; and
 - (15) The Firefighter 1 candidate shall describe the need for hose ramps.

13. Module 7b--Fire Hose, Appliances and Adapters Drill 1:

- i. Facility requirements: Drill Area Level A per N.J.A.C. 5:73-2.4(c);
- ii. Instructor requirements: Instructor Level 1 certification;
- iii. Examination: skills test;

iv. Hours required: three drill hours;

v. Objectives: 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 approved by the Office of Training and Certification.

(1) The Firefighter 1 candidate, when given a scenario, shall demonstrate the connection of a fire hose to a hydrant and apparatus or apparatus mock-up;

(2) The Firefighter 1 candidate, when given a scenario, shall demonstrate the proper procedure for cleaning hose, adapters, couplings and nozzles;

(3) The Firefighter 1 candidate, when given a scenario, shall demonstrate inspecting hose for damage;

(4) The Firefighter 1 candidate shall demonstrate selected hose rolls;

(5) The Firefighter 1 candidate shall demonstrate selected hose carries;

(6) The Firefighter 1 candidate shall demonstrate selected hose drags;

(7) The Firefighter 1 candidate shall demonstrate hose lays;

(8) The Firefighter 1 candidate shall demonstrate the use of a hose roller or other edge protection devices;

(9) The Firefighter 1 candidate, when given a scenario, shall select and connect the proper hose adapters and appliances;

(10) The Firefighter 1 candidate shall demonstrate the loading and unloading of a hose on the fire apparatus or hose bed mock-up; and

(11) The Firefighter 1 candidate shall demonstrate making hose connections;

vi. Required materials:

(1) Several hundred feet of various type of hose use locally;

(2) Various types of nozzles;

(3) Fire hydrant;

(4) Fire apparatus or hose bed mock-up;

(5) Hose tools, appliances and adapters; and

(6) Edge protection devices;

vii. Prerequisites:

(1) Module 7a--Fire Hose Appliances and Adapters;

(2) Module 14a--Safety; and

(3) Module 14b--Safety Drill.

14. Module 7c--Fire Hose, Appliances and Adapters Drill 2:

i. Facility requirements: Drill Tower per N.J.A.C. 5:73-2.4(g);

ii. Instructor requirements: Instructor Level 2 certification;

iii. Examination: skills test;

iv. Hours required: six drill hours;

v. Objectives: 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 approved by the Office of Training and Certification.

(1) The Firefighter 1 candidate, given the necessary equipment and operating 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 a stairway to an upper floor;

(D) Down a stairway to a lower floor;

(E) To an upper floor by hoisting;

(2) The Firefighter 1 candidate, given the necessary equipment and operating as a member of a team, shall advance a charged attack line of one and one-half inch or larger from a pumper and flow water:

(A) Into a structure;

(B) Up a ladder into an upper floor window;

(C) Up a stairway to an upper floor;

(D) Down a stairway to a lower floor; and

(E) 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) Hose tools;

(4) Nozzles;

(5) Appliances and adapters;

(6) Rope; and

(7) Edge protection devices;

vii. Prerequisites:

(1) Module 7a--Fire Hose, Appliances and Adapters;

(2) Module 7b--Fire Hose, Appliances and Adapters Drill 1;

(3) Module 8a--Fire Streams and Nozzles;

(4) Module 8b--Fire Streams and Nozzles Drill 1;

(5) Module 14a--Safety;

(6) Module 14b--Safety Drill;

(7) Module 9a--Ladders;

(8) Module 9b--Ladder Drill 1; and

(9) Module 9c--Ladder Drill 2.

15. Module 8a--Fire Streams and Nozzles:

i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: three classroom hours;

v. Objectives:

(1) The Firefighter 1 candidate shall define fire streams and fire stream technology;

(2) The Firefighter 1 candidate shall describe the requirements, principles and characteristics and methods of producing fire streams;

(3) The Firefighter 1 candidate shall describe the design, use and operation of various types and sizes of nozzles;

(4) The Firefighter 1 candidate shall explain the characteristics and use of water and foam as extinguishing agents;

(5) The Firefighter 1 candidate shall explain the operation and use of various types of nozzles:

(A) Solid stream;

- (B) Fog stream;
- (C) Broken stream; and
- (D) Specialty nozzles used locally;
- (6) The Firefighter 1 candidate shall define conditions that cause pressure loss in hose; and
- (7) The Firefighter 1 candidate shall define water hammer and means of prevention;

vi. Required materials:

- (1) Several hundred feet of various types of hose used locally;
- (2) Various types of nozzles;
- (3) Fire hydrant;
- (4) Fire apparatus or hose bed mock-up;
- (5) Hose tools, appliances and adapters; and
- (6) Edge protection devices;

vii. Prerequisites:

- (1) Module 7a--Fire Hose, Appliances and Adapters;
- (2) Module 7b--Fire Hose, Appliances and Adapters Drill 1;
- (3) Module 14a--Safety; and
- (4) Module 14b--Safety Drill;

16. Module 8b--Fire Streams and Nozzles Drill:

- i. Facility requirements: Drill Area A per N.J.A.C. 5: 73-2.4(b);
- ii. Instructor requirements: Instructor Level I certification;
- iii. Examination: skills test;
- iv. Hours required: three drill hours;

v. Objectives: 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 approved by the Office of Training and Certification.

(1) Given the following types of nozzles, the Firefighter 1 candidate shall select the proper size and type nozzle for a given scenario:

- (A) Solid stream;
- (B) Fog stream;

(C) Broken stream; and

(D) Specialty nozzles used locally;

vi. Required materials:

(1) Several hundred feet of various types of hose used locally;

(2) Various types of nozzles;

(3) Fire hydrant;

(4) Fire apparatus or hose bed mock-up;

(5) Hose tools, appliances and adapters; and

(6) Edge protection devices;

vii. Prerequisites:

(1) Module 7a--Fire Hose, Appliances and Adapters;

(2) Module 7b--Fire Hose, Appliances and Adapters Drill 1;

(3) Module 8a--Fire Streams and Nozzles;

(4) Module 8b--Fire Streams and Nozzles Drill 1;

(5) Module 14a--Safety;

(6) Module 14b--Safety Drill;

(7) Module 9a--Ladders;

(8) Module 9b--Ladder Drill 1; and

(9) Module 9c--Ladder Drill 2.

17. Module 9a--Ladders:

i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: one classroom hour;

v. Objectives:

(1) The Firefighter 1 candidate shall describe the various types of ladders and ladder terminology;

(2) The Firefighter 1 candidate shall describe ladder construction and use;

- (3) The Firefighter 1 candidate shall describe methods of ladder visual inspection and maintenance;
- (4) The Firefighter 1 candidate shall describe methods of removing ladders from apparatus;
- (5) The Firefighter 1 candidate shall describe methods of carrying ladders safely;
- (6) The Firefighter 1 candidate shall explain proper ladder placement;
- (7) The Firefighter 1 candidate shall describe methods of climbing ladders;
- (8) The Firefighter 1 candidate shall describe methods of securing ladders;
- (9) The Firefighter 1 candidate shall explain equipment and techniques to safely work while on ladders;
- (10) The Firefighter 1 candidate shall describe method of assisting victims down a ladder, ladder rescue; and
- (11) The Firefighter 1 candidate shall explain factors affecting ladder safety.

18. Module 9b--Ladders Drill 1:

- i. Facility requirements: Drill Area Level A per N.J.A.C. 5:73-2.4(c);
- ii. Instructor requirements: Instructor Level 1 certification;
- iii. Examination: skills test;
- iv. Hours required: three drill hours;
- v. Objectives: The Firefighter 1 candidate must be able to perform the skill in the area listed below. Performance shall be determined by using evaluation forms approved by the Office of Training and Certification.
 - (1) The Firefighter 1 candidate shall demonstrate visual inspection for different types of ladders;
 - (2) The Firefighter 1 candidate shall demonstrate proper procedure for cleaning ladders after use;
 - (3) The Firefighter 1 candidate, as a team member, shall demonstrate various ladder carries;
 - (4) The Firefighter 1 candidate shall raise the following ladders as an individual or as part of a team:
 - (A) Flat raise;
 - (B) Beam raise; and
 - (C) Under overhead obstruction raise;
- vi. Required materials:
 - (1) Assorted ladders; and
 - (2) Rope;
- vii. Prerequisites:

- (1) Module 9a--Ladders;
- (2) Module 14a--Safety; and
- (3) Module 14b--Safety Drill.

19. Module 9c--Ladders Drill 2:

- i. Facility required: Drill Tower per N.J.A.C. 5:73-2.4(g);
- ii. Instructor required: Instructor Level 2 certification;
- iii. Examination: skills test;
- iv. Hours required: six drill hours;
- v. Objectives: 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 approved by the Office of Training and Certification.

(1) The Firefighter 1 candidate, given a scenario, shall select, raise, secure and climb the full-length of the appropriate ladder(s):

(A) 12-foot or longer roof ladder; and

(B) 24-foot or longer extension ladder;

(2) The Firefighter 1 candidate, given a scenario, shall select the proper tool and/or ladder to accomplish the scenario. The Firefighter 1 candidate shall climb the full length of a 24-foot or longer ladder carrying the following firefighting tools:

(A) Axe;

(B) Pike pole; and

(C) Halligan tool;

(3) The Firefighter 1 candidate, given a scenario, shall select the proper ladders to place a roof ladder on a pitched roof; and

(4) The Firefighter 1 candidate, given a scenario, shall select the proper ladder and tools and demonstrate the methods of working from a ladder with and without a life belt;

vi. Required materials:

(1) Ladders of the following sizes:

(A) 12-foot or longer roof ladder; and

(B) 24-foot or longer extension ladder;

(2) Ladder belt;

(3) Small entry tools; and

(4) Rope;

vii. Prerequisites:

(1) Module 9a--Ladders;

(2) Module 9b--Ladders Drill 1;

(3) Module 14a--Safety;

(4) Module 14b--Safety Drill;

(5) Module 5a--Ropes and Knots; and

(6) Module 5b--Ropes and Knots Drill.

20. Module 10a--Building Construction and Ventilation:

i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification and Drill Ground Instructor certificate;

iii. Examination: written;

iv. Hours required: three classroom hours;

v. Objectives:

(1) The Firefighter 1 candidate shall describe the common types of building construction;

(2) The Firefighter 1 candidate shall identify firefighting hazards related to the common types of building construction;

(3) The Firefighter 1 candidate shall identify the various types of roof construction and their impact on firefighting and ventilation;

(4) The Firefighter 1 candidate shall explain the significance of truss roof/floor signs and their importance;

(5) The Firefighter 1 candidate shall identify the various types of wall/floor construction and their impact on firefighting;

(6) The Firefighter 1 candidate shall identify the various types of windows and doors and their impact on access, firefighting and ventilation;

(7) The Firefighter 1 candidate shall define ventilation;

(8) The Firefighter 1 candidate shall explain the principles and methods of natural, hydraulic and mechanical ventilation;

(9) The Firefighter 1 candidate shall explain the advantages of ventilation;

(10) The Firefighter 1 candidate shall describe ventilation safety precautions; and

(11) The Firefighter 1 candidate shall describe vertical and horizontal ventilation;

21. Module 10b--Building Construction and Ventilation Drill:

i. Facility requirements: Drill Area Level A per N.J.A.C. 5:73-2.4(c);

ii. Instructor requirements: Instructor Level 1 certification and Drill Ground Instructor certificate;

iii. Examination: skills test;

iv. Hours required: three drill hours;

v. Objectives: 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 approved by the Office of Training and Certification;

(1) The Firefighter 1 candidate, given a scenario, shall demonstrate proper method of creating a ventilation opening in a roof and in a window;

(2) The Firefighter 1 candidate, given a scenario, shall demonstrate proper techniques of horizontal ventilation;

(3) The Firefighter 1 candidate, given a scenario, shall demonstrate proper techniques of mechanical ventilation;

(4) The Firefighter 1 candidate, given a scenario, shall demonstrate proper techniques of vertical ventilation;

(5) The Firefighter 1 candidate, given a scenario, shall demonstrate proper techniques of hydraulic ventilation;

vi. Prerequisites:

(1) Module 4a--Protective Breathing Apparatus;

(2) Module 4b--Protective Breathing Apparatus Drill 1;

(3) Module 10a--Building Construction and Ventilation;

(4) Module 3a--Forcible Entry;

(5) Module 3b--Forcible Entry Drill;

(6) Module 7a--Fire Hose, Appliances and Adapters;

(7) Module 7b--Fire Hose, Appliances and Adapters Drill;

(8) Module 9a--Ladders;

(9) Module 9b--Ladders Drill 1;

(10) Module 9c--Ladders Drill 2;

(11) Module 14a--Safety; and

(12) Module 14b--Safety Drill;

vii. Required materials:

(1) Various hand and power tools as used by the authority having jurisdiction;

(2) Various ground ladders as used by the authority having jurisdiction;

(3) Various types of hoses, nozzles, fittings, and adapters as used by the authority having jurisdiction; and

(4) PEOSHA-approved SCBA and personal protective equipment.

22. Module 11a--Search and Rescue:

i. Facility requirement: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor requirement: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: three classroom hours;

v. Objectives:

(1) The Firefighter 1 candidate shall explain various situations requiring search and rescue operations;

(2) The Firefighter 1 candidate shall describe safety precautions during search and rescue;

(3) The Firefighter 1 candidate shall identify types and uses of rescue tools;

(4) The Firefighter 1 candidate shall describe search and rescue procedures and techniques;

(5) The Firefighter 1 candidate shall describe methods of removing victims from hazard; and

(6) The Firefighter 1 candidate shall describe elevator evacuation;

vi. Prerequisites:

(1) Module 4a--Protective Breathing Apparatus;

(2) Module 4b--Protective Breathing Apparatus Drill 1;

(3) Module 9c--Ladder Drill 2;

(4) Module 14a--Safety Drill;

(5) Module 14b--Safety Drill; and

(6) Module 15--Fire Behavior.

23. Module 11b--Search and Rescue Drill:

i. Facility required: Drill Area Level A per N.J.A.C. 5:73-2.4(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 approved by the Office of Training and Certification.

(1) The Firefighter 1 candidate, given a scenario, shall demonstrate various methods of locating victims;

(2) The Firefighter 1 candidate, given a scenario, shall demonstrate the various lifts, carries, and drags:

(A) Cradle-in-arms lift/carry;

(B) Extremities lift/carry;

(C) Blanket drag;

(D) Seat lift/carry;

(E) Two or three person lift/carry;

(F) Chair lift/carry-two persons;

(G) Incline drag; and

(H) Moving a victim onto a long board or litter;

(3) The Firefighter 1 candidate shall climb the full length of a 24 foot or longer ladder and demonstrate bringing down an injured person (using training aid dummy).

vi. Required materials:

(1) Rope;

(2) Pike poles;

(3) Blankets;

(4) Stretchers;

(5) Ladders;

(6) Training aid dummy;

(7) Long board;

(8) Litter; and

(9) Thermal imaging camera;

vii. Prerequisites:

- (1) Module 4a--Protective Breathing Apparatus;
- (2) Module 4b--Protective Breathing Apparatus Drill 1;
- (3) Module 9c--Ladder Drill 2;
- (4) Module 15--Fire Behavior;
- (5) Module 11a--Rescue;
- (6) Module 9a--Ladders;
- (7) Module 9b--Ladders Drill 1;
- (8) Module 5a--Ropes and Knots;
- (9) Module 5b--Ropes and Knots Drill;
- (10) Module 14a--Safety;
- (11) Module 14b--Safety Drill;
- (12) Module 15--Fire Behavior;
- (13) Module 10a--Ventilation; and
- (14) Module 10b--Ventilation Drill.

24. Module 12a--Sprinklers:

i. Facility required: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: one classroom hour;

v. Objectives:

(1) The Firefighter 1 candidate shall identify and describe the various types and components of sprinkler system;

(2) The Firefighter 1 candidate shall identify and describe the various types of and operation of sprinkler heads;

(3) The Firefighter 1 candidate shall identify and describe the purpose and operation of fire department sprinkler connection;

(4) The Firefighter 1 candidate shall identify and describe the purpose and operation of waterflow alarms; and

(5) The Firefighter 1 candidate shall identify and describe the considerations associated with shutting down a sprinkler system.

25. Module 12b--Sprinkler Drill:

i. Facility required: Drill Area Level A per N.J.A.C. 5:73-2.4(c);

ii. Instructor required: Instructor Level 1 certification;

iii. Examination: skills test;

iv. Hours required: one drill hour;

v. Objectives: 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 approved by the Office of Training and Certification.

(1) The Firefighter 1 candidate shall demonstrate the operation of and connection to a fire department connection; and

(2) The Firefighter 1 candidate shall 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 12a--Sprinklers.

26. Module 13--Fire Alarms and Communications:

i. Facility required: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor requirements: Instructor Level 1 certification or Adjunct Instructor certificate;

iii. Examination: written;

iv. Hours required: one classroom hour;

v. Objectives:

(1) The Firefighter 1 candidate shall identify and describe the various procedures for the public or an emergency responder to report a fire or other emergency;

(2) The Firefighter 1 candidate shall identify and describe the various procedures for receiving and transmitting an alarm;

(3) The Firefighter 1 candidate shall identify and describe types and basic operation of the various alarm systems including detection and transmission;

(4) The Firefighter 1 candidate shall identify and describe the organization and operation of county/local communications systems;

(5) The Firefighter 1 candidate shall identify and describe the purpose, operations and capabilities of the enhanced 9-1-1 system;

vi. Required materials:

(1) Local radio operating procedures; and

(2) County radio operating procedures where applicable.

27. Module 14a--Safety:

i. Facility required: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor required: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: two classroom hours;

v. Objectives:

(1) The Firefighter 1 candidate shall identify and describe structural firefighter's personal protective equipment use, maintenance, donning, wearing, capabilities and regulated regulatory requirements:

(A) PEOSHA requirements; and

(B) Right to know requirements;

(2) The Firefighter 1 candidate shall identify and describe the various types and causes of occupational injuries;

(3) The Firefighter 1 candidate shall identify and describe the proper methods of going to and from an emergency incident:

(A) Mounting an apparatus;

(B) Riding apparatus;

(C) Dismounting an apparatus; and

(D) Responding in a personally-owned vehicle;

(4) The Firefighter 1 candidate shall describe various hazards at an emergency scene and state proper methods for avoiding, guarding and/or removing hazards;

(5) The Firefighter 1 candidate shall identify and describe safety procedures for the following:

(A) Incident Management System;

(B) Emergency Evacuation Signal;

(C) Firefighter Assistance and Search Teams.

28. Module 14b--Safety Drill:

i. Facility required: Drill Area Level A per N.J.A.C. 5:73-2.4(c);

ii. Instructor required: Instructor Level 1 certification;

iii. Examination: skills test;

iv. Hours required: one hour drill;

v. Objectives: 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 approved by the Office of Training and Certification.

(1) The Firefighter 1 candidate shall identify and describe the methods of inspection and maintenance for each article of personal protective equipment;

(2) The Firefighter 1 candidate shall demonstrate donning personal protective equipment in the proper manner; and

(3) The Firefighter 1 candidate shall demonstrate proper procedures for mounting, using restraining devices and demounting a vehicle;

vi. Required materials and tools:

(1) PEOSHA approved personal protective clothing for each student; and

(2) Fire apparatus;

vii. Prerequisite: Module 14a--Safety.

29. Module 15--Fire Behavior:

i. Training facility: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor required: Instructor Level 1 certification;

iii. Examination: written;

iv. Hours required: three classroom hours;

v. Objectives:

(1) The Firefighter 1 candidate shall describe the basic theory of combustion;

(A) Fire triangle/tetrahedron; and

(B) Heat sources;

(2) The Firefighter 1 candidate shall describe the stages of a fire;

(3) The Firefighter 1 candidate shall describe the types and method of heat transfer;

(4) The Firefighter 1 candidate shall describe the various products of combustion;

- (5) The Firefighter 1 candidate shall describe the common paths of fire spread;
- (6) The Firefighter 1 candidate shall identify and describe the four classes of fire;
- (7) The Firefighter 1 candidate shall describe the four fire extinguishment theories; and
- (8) The Firefighter 1 candidate shall explain thermal layering/balance.

30. Module 16a--Portable Fire Extinguishers:

- i. Training facility: Classroom Level A per N.J.A.C. 5:73-2.4(b);
- ii. Instructor level: Instructor Level 1 certification;
- iii. Examination: written;
- iv. Hours required: one classroom hour;
- v. Objectives:
 - (1) The Firefighter 1 candidate shall explain and describe the fire extinguisher rating system;
 - (2) The Firefighter 1 candidate shall describe the various types of fire extinguishers and how to select extinguishers for various types of fires;
 - (3) The Firefighter 1 candidate shall describe the capabilities, advantages and limitations of various extinguishers;
 - (4) The Firefighter 1 candidate shall describe how to identify damaged or obsolete extinguishers;
 - (5) The Firefighter 1 candidate shall describe the proper care and visual inspection of fire extinguishers; and
 - (6) The Firefighter 1 candidate shall describe the various types of extinguishing agents and their use;
- vi. Prerequisites:
 - (1) Module 15--Fire Behavior.

31. Module 16b--Fire Extinguisher Drill:

- i. Facility requirements: Live Burn Facility per N.J.A.C. 5:73-2.4(h);
- ii. Instructor requirements: Instructor Level 2 Certification and Drill Ground Instructor certificate;
- iii. Examination: skills test;
- iv. Hours required: two drill hours;
- v. Objectives: 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 approved by the Office of Training and Certification.
 - (1) The Firefighter 1 candidate shall demonstrate by the use of two 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; and
 - (D) Dry chemical extinguishers; and
- (2) The Firefighter 1 candidate shall demonstrate visual inspection of a selected fire extinguisher.

32. Module 17a--Fire Control:

- i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);
- ii. Instructor requirements: Instructor Level 1 certification;
- iii. Examination: written test;
- iv. Hours required: six classroom hours;
- v. Objectives:
 - (1) The Firefighter 1 candidate shall describe the suppression of Class A fires;
 - (A) Stream selection;
 - (B) Hoseline selection;
 - (C) Direct attack; and
 - (D) Indirect attack;
 - (2) The Firefighter 1 candidate shall describe the suppression of Class B fires;
 - (A) Using water to control Class B fires;
 - (I) Colling agent;
 - (II) Mechanical tool;
 - (III) Substitute medium;
 - (IV) Protective cover;
 - (B) Bulk fires; and
 - (C) Control of gas utilities;
 - (3) The Firefighter 1 candidate shall describe the suppression of Class C fires;
 - (4) The Firefighter 1 candidate shall describe the suppression of Class D fires;

- (5) The Firefighter 1 candidate shall describe basic fire company tactics;
- (6) The Firefighter 1 candidate shall describe the issues related to fires in upper levels of structures;
- (7) The Firefighter 1 candidate shall describe the issues related to fires below grade in structures;
- (8) The Firefighter 1 candidate shall describe the issues related to fires at properties with fixed systems;
- (9) The Firefighter 1 candidate shall describe the issues related to vehicle fires:
 - (A) Basic procedures; and
 - (B) Vehicle hazards;
- (10) The Firefighter 1 candidate shall describe the issues related to trash and trash containers;
- (11) The Firefighter 1 candidate shall describe the issues related to confined space emergencies; and
- (12) The Firefighter 1 candidate shall describe the issues related to wildland fires;

vi. Prerequisites:

- (1) Modules 1 through 16b.

33. Module 17b--Live Fire Evolution:

- i. Facility requirements: Live burn facility per N.J.A.C. 5:73-2.4(h);
- ii. Instructor requirements: Instructor Level 2 certification and Drill Ground Instructor certificate;
- iii. Examination: skills test;
- iv. Hours required: 12 drill hours;
- v. Objectives: The Firefighter 1 candidate, as a member of a team, must be able to perform the skills in the areas listed below. Performance will be determined by using skill evaluation forms approved by the Office of Training and Certification:
 - (1) The Firefighter 1 candidate as a member of a team shall demonstrate operating a fire hose nozzle so as to attack and extinguish at least two live fires, including a Class A fire and a Class B liquid fire;
 - (2) The Firefighter 1 candidate as a member of a team shall demonstrate attack on automobile fire;
 - (3) The Firefighter 1 candidate as a member of a team shall demonstrate the proper positioning of attack lines; and
 - (4) The Firefighter 1 candidate as a member of a team shall demonstrate an interior fire attack;
- vi. Prerequisite: All Modules.

34. Module 18--Hazardous Materials Awareness and Operations:

- i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);

- ii. Instructor requirements: Adjunct Hazardous Materials Instructor;
- iii. Examination: written;
- iv. Hours required: 18 classroom hours;
- v. Objectives: The Firefighter 1 candidate shall complete a recognized Hazardous Materials Awareness and Operations level course(s).

35. Module 19--Response to Terrorism:

- i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b) or homework assignment;
 - ii. Instructor requirement: Instructor Level I certification;
- (1) Examination: written;
 - (2) Minimum hours required: two classroom or homework;
 - (3) Objectives: The Firefighter 1 candidate shall successfully complete the National Fire Academy's program "Emergency Response to Terrorism: Self-Study," or equal.

36. Module 20--Utility Emergencies:

- i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);
- ii. Instructor requirement: Adjunct Utilities Instructor or Instructor Level I certification;
- iii. Examination: written;
- iv. Suggested guideline: two classroom hours;
- v. Objectives: The Firefighter 1 candidate shall understand the hazards of utility emergencies and describe how to prevent, guard or remove the hazard:
 - (1) Electrical emergencies;
 - (2) Natural/propane gas emergencies;
- vi. Prerequisites:
 - (1) Module 3a--Self-contained Breathing Apparatus;
 - (2) Module 9a--Building Construction and Ventilation;
 - (3) Module 13a--Safety; and
 - (4) Module 14--Fire Behavior.

37. Module 21--Wildland-Wildland Urban Interface Firefighting:

- i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);
- ii. Instructor requirements: Adjunct Forestry Instructor or Instructor Level I;

iii. Examination: written;

iv. Suggested guideline: two classroom hours;

v. Objectives: The Firefighter 1 candidate shall understand the differences and hazards of wildland firefighting and wildland urban interface firefighting;

vi. Prerequisites:

(1) Module 1--Orientation/Fire Department Organization;

(2) Module 13a--Safety; and

(3) Module 14--Fire Behavior.

38. Module 22--Cardio-Pulmonary Resuscitation:

i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor requirements: Adjunct CPR Instructor or Nationally Certified CPR Instructor;

iii. Examination: written and/or performance per the national CPR certifying agency;

iv. Suggested guideline: hours per national CPR certifying agency;

v. Objectives: The Firefighter 1 candidate shall complete a nationally recognized Cardio-Pulmonary Resuscitation course.

39. Module 23--Firefighter Wellness:

i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);

ii. Instructor requirements: Adjunct Instructor or Instructor Level I;

iii. Examination: written;

iv. Suggested guideline: two classroom hours;

v. Objectives: The Firefighter 1 candidate shall understand and explain the various factors in firefighter wellness:

(1) Physical factors;

(2) Mental factors;

(3) Outside factors; and

(4) Future considerations;

vi. Prerequisites: All Modules.

40. Module 24--Burn Education:

- i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);
- ii. Instructor requirements: Adjunct Burn Education Instructor or Instructor Level I;
- iii. Examination: written;
- iv. Suggested guideline: two classroom hours;
- v. Objectives: The Firefighter 1 candidate shall understand the types and hazards of various burns, methods of prevention and the burn treatment process;
- vi. Prerequisites:
 - (1) Module 1--Orientation/Fire Department Organization;
 - (2) Module 13a--Safety; and
 - (3) Module 14--Fire Behavior.

41. Module 25--Bloodborne Pathogens:

- i. Facility requirements: Classroom Level A per N.J.A.C. 5:73-2.4(b);
- ii. Instructor requirements: Adjunct Bloodborne Pathogen Instructor or Instructor Level I;
- iii. Examination: written;
- iv. Suggested guideline: two classroom hours;
- v. Objectives: Initial and Refresher Training must cover all topics in 29 CFR 1910.1030;
- vi. Prerequisites:
 - (1) Module 1--Orientation/Fire Department Organization;
 - (2) Module 13a--Safety; and
 - (3) Module 14--Fire Behavior.