

CHAPTER 73
STANDARDS FOR FIRE SERVICE TRAINING
AND CERTIFICATION

Authority

N.J.S.A. 52:27D-198.

Source and Effective Date

R.2000 d.30, effective December 22, 1999.
See: 31 N.J.R. 3257(a), 32 N.J.R. 273(c).

Executive Order No. 66(1978) Expiration Date

Chapter 73, Standards for Fire Service Training and Certification, expires on December 22, 2004.

Chapter Historical Note

Chapter 73, Standards for Fire Service Training and Certification, was originally codified in Title 5 as Chapter 18C, Standards for Fire Service Training and Certification. Chapter 18C 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, Standards for Fire Service Training and Certification, was readopted as R.1995 d.58, effective January 3, 1995. See: 26 N.J.R. 4258(a), 27 N.J.R. 878(b).

Subchapter 6, Hazardous Materials/Incident Commander Certifications, was adopted as R.1996 d.84, effective March 4, 1996. See: 27 N.J.R. 1845(a), 28 N.J.R. 1377(b).

Pursuant to Reorganization Plan No. 002-1998, Chapter 18C, Standards for Fire Service Training and Certification, was recodified as N.J.A.C. 5:73, effective July 1, 1998. See: 30 N.J.R. 1347(a), 30 N.J.R. 2644(a).

Pursuant to Executive Order No. 66(1978), Chapter 73, Standards for Fire Service Training and Certification, was readopted as R.2000 d.30, effective December 22, 1999. See: Source and Effective Date.

CHAPTER TABLE OF CONTENTS

SUBCHAPTER 1. GENERAL PROVISIONS

- 5:73-1.1 Titles, division into subchapters
- 5:73-1.2 Authority
- 5:73-1.3 Intent and purpose
- 5:73-1.4 Definitions
- 5:73-1.5 Office established; hearings
- 5:73-1.6 Certifications required
- 5:73-1.7 Requirements for certification or a certificate
- 5:73-1.8 Replacement of certificate; reinstatement
- 5:73-1.9 Revocation of certification or certificate and alternative sanctions
- 5:73-1.10 Fees
- 5:73-1.11 NFPA standards

SUBCHAPTER 2. EDUCATIONAL PROGRAMS AND FACILITIES

- 5:73-2.1 Standards for educational programs
- 5:73-2.2 Eligible organizations
- 5:73-2.3 Procedure for approving educational programs
- 5:73-2.4 Facility requirements
- 5:73-2.5 Live fire training permit

SUBCHAPTER 3. (RESERVED)

SUBCHAPTER 4. FIREFIGHTER I

- 5:73-4.1 Duties and responsibilities of firefighter I
- 5:73-4.2 Firefighter I certification
- 5:73-4.3 Training requirements
- 5:73-4.4 Examination requirements
- 5:73-4.5 Optional courses

SUBCHAPTER 5. INSTRUCTORS

- 5:73-5.1 General provisions
- 5:73-5.2 Instructor Level 1
- 5:73-5.3 Instructor Level 2
- 5:73-5.4 Special instructor certificates
- 5:73-5.4A Procedure for applying for instructor certification from other jurisdictions
- 5:73-5.5 Renewal of certification
- 5:73-5.6 Organizational, administrative and operational functions for instructor educational and preparation programs
- 5:73-5.7 Procedures for applying for continuing education approval

SUBCHAPTER 6. HAZARDOUS MATERIALS/INCIDENT MANAGEMENT SYSTEM CERTIFICATION

- 5:73-6.1 Incident management system certification
- 5:73-6.2 Hazardous Materials—Awareness
- 5:73-6.3 Hazardous Materials—Operational
- 5:73-6.4 Hazardous Materials—On-Scene Incident Commander
- 5:73-6.5 Continuing education

SUBCHAPTER 7. FIRE POLICE OFFICER TRAINING

- 5:73-7.1 Intent and purpose
- 5:73-7.2 Fire police officer training program
- 5:73-7.3 Exemptions

SUBCHAPTER 8. FIRE OFFICERS

- 5:73-8.1 General provisions
- 5:73-8.2 Fire Officer

SUBCHAPTER 1. GENERAL PROVISIONS

5:73-1.1 Titles, 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 seven parts:

1. Subchapter 1 is entitled "General Provisions" and may be cited throughout the Standards as N.J.A.C. 5:73-1, 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. 5:73-2, 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. 5:73-4, 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. 5:73-5, and when referred to in subchapter 5 of this chapter, may be referred to as this subchapter.

6. Subchapter 6 is entitled "Incident Management System Certification" and may be cited throughout the Standards as N.J.A.C. 5:73-6, and when referred to in subchapter 6 of this Chapter, may be referred to as this subchapter.

7. Subchapter 7 is entitled "Fire Police Officer Training" and may be cited throughout the Standards as N.J.A.C. 5:73-7, and when referred to in subchapter 7 of this chapter, may be referred to as this subchapter.

Amended by R.1998 d.85, effective February 17, 1998.

See: 29 N.J.R. 3210(a), 30 N.J.R. 641(a).

In (b), substituted a reference to six parts for a reference to five parts, and added 6.

Amended by R.2001 d.57, effective February 20, 2001.

See: 32 N.J.R. 3253(a), 33 N.J.R. 692(b).

In (b), substituted "seven" for "six" in the introductory paragraph, and added (b)7.

5:73-1.2 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, and further amended by P.L. 1995, c.266; N.J.S.A. 52:27D-25a et seq., specifically 52:27D-25i, j, k and m.)

Administrative change.

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

Amended by R.1998 d.85, effective February 17, 1998.

See: 29 N.J.R. 3210(a), 30 N.J.R. 641(a).

Added a reference to P.L. 1995, c.266; N.J.S.A. 52:27D-25a et seq., specifically 52:27D-25i, j, k, and m.

5:73-1.3 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.

1. For purposes of this chapter, "fire service" shall not include wildland and forestland firefighters in the State forest fire service.

(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.

Amended by R.1997 d.286, effective July 21, 1997.

See: 29 N.J.R. 722(a), 29 N.J.R. 3243(a).

Added (a)1.

5:73-1.4 Definitions

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

"Acquired building" means any structure acquired by the eligible organization from a property owner for the purpose of conducting live fire training exercises.

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

"Department" means the Department of Community Affairs.

"Division" means the Division of Fire Safety of the Department of Community Affairs.

"Eligible organization" means a fire department or district, or a combination of fire departments or districts, an institution of higher learning, the New Jersey State Fire College or a recognized governmental entity which has been approved by the Division to offer courses or modules which meet the requirements of this chapter.

"Evolution" means a set of prescribed actions that result in an effective fireground activity.

"Fire police officer" means any member of a duly organized volunteer fire company who has the duty for performing traffic control, scene security, and other related duties at the scene of a public event, fire, fire drill or any other similar occasion.

"Fire service" means the State, a county or municipal agency or fire district utilizing volunteer, career or part-paid firefighters for rescue, fire suppression and related activities.

“Fire service instructor” means a career or volunteer or part-paid firefighter who has been certified by the division to deliver firefighter training after completing a prescribed

curriculum. For purposes of this chapter, “fire service instructor” shall not include instructors of wildland and forestland firefighters in the State forest fire service.

Amended by R.1998 d.85, effective February 17, 1998.
See: 29 N.J.R. 3210(a), 30 N.J.R. 641(a).

Rewrote the section.

Amended by R.2001 d.57, effective February 20, 2001.
See: 32 N.J.R. 3253(a), 33 N.J.R. 692(b).

In (a) and (b), added references to certificates throughout.

5:73-1.10 Fees

No application for certification or certificate shall be acted upon unless the application is accompanied by the appropriate fee. The fee for any certification or certificate issued pursuant to this chapter shall be \$5.00.

Amended by R.1997 d.123, effective March 17, 1997.
See: 28 N.J.R. 5124(a), 29 N.J.R. 869(a).

Substituted single fee for existing fee schedule.

Amended by R.2001 d.57, effective February 20, 2001.
See: 32 N.J.R. 3253(a), 33 N.J.R. 692(b).

Added references to certificates throughout.

5:73-1.11 NFPA standards

Copies of National Fire Protection Association (NFPA) standards incorporated by reference in this chapter may be obtained by writing to: NFPA, 1 Batterymarch Park, Quincy, MA 02269.

New Rule, R.2003 d.77, effective February 18, 2003.
See: 34 N.J.R. 3599(b), 35 N.J.R. 1055(b).

SUBCHAPTER 2. EDUCATIONAL PROGRAMS AND FACILITIES

5:73-2.1 Standards for educational programs

(a) To carry out their responsibilities, fire service personnel must be fully knowledgeable and adequately prepared.

This subchapter adopts standards for fire service training and education programs.

1. Programs for firefighters must meet certain standards to ensure firefighters have the necessary skills and knowledge which the specialized and hazardous nature of fire fighting requires.

2. Programs for fire service instructors must meet certain standards to ensure they have the knowledge and skills necessary to provide instruction for fire service members.

5:73-2.2 Eligible organizations

(a) A fire department or district, a combination of fire departments or districts, an institution of higher learning, the New Jersey State Fire College or a recognized governmental entity is eligible to submit an application to offer courses or modules which meet the requirements of this chapter.

1. To ensure accountability, any module or course for a firefighter 1 certification may only be offered by a fire department or district, a combination of fire departments or districts or a recognized governmental entity.

(b) An applicant for module or course approval shall have satisfied the following requirements:

See: 25 N.J.R. 1846(a), 25 N.J.R. 4071(b).

5:73-4.3 Training requirements

(a) An applicant for firefighter 1 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. 5:73-2.4(b);

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

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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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;

vi. Required materials:

(1) Assorted ladders; and

(2) Rope;

vii. Prerequisite: Module 8a—Ladders.

17. Module 8c: 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. 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;

(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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 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. 5:73-2.4(b);
 - ii. Instructor requirements: Instructor Level 1 certification or Adjunct Instructor certificate;
 - 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. 5:73-2.4(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. 5:73-2.4(b);
 - ii. Instructor requirements: Instructor Level 1 certification or Adjunct Instructor certificate;
 - 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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(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. 5:73-2.4(h);

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

Amended by R.1997 d.286, effective July 21, 1997.

See: 29 N.J.R. 722(a), 29 N.J.R. 3243(a).

In (a)29ii, inserted ", SCBA/Smokehouse certificate".

Amended by R.2001 d.57, effective February 20, 2001.

See: 32 N.J.R. 3253(a), 33 N.J.R. 692(b).

In (a), added "or Adjunct Instructor certificate" in 1ii, 22ii and 24ii.

5:73-4.4 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.

5:73-4.5 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. 5:73-2.4(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

5:73-5.1 General provisions

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

5:73-5.2 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 1 and shall meet the following requirements:

1. Be at least 18 years of age;
2. Satisfactorily complete the 16 hour instructional techniques course as specified in (c) below;
3. Satisfactorily complete the 16 hour Fire Service Instructor General Safety course as specified in (d) below; and
4. Satisfactorily pass the written test specified in (e) below.

(c) The following standard applies to programs designed to satisfy the requirements for the instructional techniques course:

1. Hours required: 16;
2. Subject areas. The course must cover the following subject areas:
 - i. Communication;
 - ii. Concepts of learning/adult learning;
 - iii. Human relations in the teaching-learning environment;
 - iv. Methods of teaching;
 - v. Organizing the learning environment;
 - vi. Performance evaluation;
 - vii. Records and reports;
 - viii. Testing and evaluation;
 - ix. The instructor's roles and responsibilities;
 - x. The lesson plan;
 - xi. The teaching technique; and

xii. The use of instructional materials;

3. The following certificates, courses or experience will be accepted as substitutes for the instructional techniques course:

- i. A valid New Jersey Teacher's Certificate;
- ii. A valid Instructional Certificate with an endorsement for a teacher of skilled trades: fire science;
- iii. The course "Instructional Techniques for Company Officers" as developed by the National Fire Academy; or
- iv. Any other course taken prior to the effective date of this chapter can be submitted by the candidate to the Office of Training and Certification for an evaluation by the office as equivalent. The office will maintain a list of reviewed and approved substitute courses.

(d) Applicants for an Instructor Level 1 certificate must complete the eight-hour safety course promulgated by the Office of Training and Certification. The approved course materials are incorporated by reference and are provided by the Office of Training and Certification, Division of Fire Safety, Department of Community Affairs, PO Box 809, Trenton, New Jersey 08625-0809. The referenced course materials shall be subject to periodic Division revision and amendment.

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

Amended by R.1993 d.440, effective September 7, 1993.

See: 25 N.J.R. 1846(a), 25 N.J.R. 4071(b).

Administrative change.

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

Amended by R.1997 d.123, effective March 17, 1997.

See: 28 N.J.R. 5124(a), 29 N.J.R. 869(a).

In (b), inserted two years experience verification requirement; in (b)3, substituted "Fire Service Instructor General Safety Course" for "course, 'Instructor I Level I Safety' " and deleted (f)1, providing that specified experience could substitute for the written exam.

Amended by R.1998 d.85, effective February 17, 1998.

See: 29 N.J.R. 3210(a), 30 N.J.R. 641(a).

In (c), deleted "until July 1, 1996" at the end of the introductory paragraph of 3.

Amended by R.2001 d.57, effective February 20, 2001.

See: 32 N.J.R. 3253(a), 33 N.J.R. 692(b).

Rewrote the section.

Amended by R.2003 d.159, effective April 21, 2003.

See: 34 N.J.R. 3887(a), 35 N.J.R. 1668(a).

In (d), reduced the number of hours required in an Instructor Level 1 certificate training course from 16 to 8, added the last sentence.

5:73-5.3 Instructor Level 2

(a) The Instructor Level 2 may provide training for those modules or courses in this chapter where Instructor Level 1 or 2 is required.