



FLORIDA DEPARTMENT OF FINANCIAL SERVICES  
Division of State Fire Marshall  
Bureau of Fire Standards and Training  
11655 N.W. Gainesville Road  
Ocala, FL 34482-1486

# BFST1540

## Private Fire Protection Systems I

### Syllabus

**Revision Date: April 26, 2025**

**This course is managed by The Bureau of Fire Standards and Training**

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#### **Class Days/Time**

If being taught at the Florida State Fire College Campus 1655 NW Gainesville Road, Ocala, FL 34482 Bldg. C - Classrooms – Monday – Friday 8 A.M. – 5 P.M. Additional coursework outside the classroom totaling five (5) hours of work may be assigned.

#### **Contact Hours**

This Class has 45 contact hours.

#### **Continuing Education Units (CEU's):**

Fire Safety Inspector

Instructor I, II, III

Fire Code Administrator

#### **Course Description**

This is a study of private fire protection and detection systems such as sprinkler and standpipe systems, chemical extinguishing systems, and devices. Each system is discussed as to its need, construction, preventative maintenance and individual uses.



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## Course Materials, Grading and Attend

**Recommended Book:** Fire Protection Systems (3<sup>rd</sup> ed.); A. Maurice Jones, Jr. Jones & Bartlett  
ISBN: 978-128418013-8

**Prerequisite:** None

**Pre-course Assignment:** None

**Required Materials:** Paper, Pens, USB portable storage device (thumb drive)

**Attendance:** Students are required to attend all sessions of this course.

- Excused absences – Students are permitted excused absences totaling no more than a 10% of class (4.5 hours maximum), the instructor shall be the sole determining authority in the determination of an excused absence and may assign supplemental work to make up for missed class time.
- Unexcused absences – The instructor shall be the sole determining authority in the determination of an excused absence (i.e., “no call, no show”). The instructor has no obligation to offer the student an opportunity to make up assignments, including quizzes and/or exams, but may so at his/her discretion.

**Grading:** Students must achieve a minimum cumulative score of 70% to pass this course. Course grades are determined from assignments and activities including, projects, exams, and presentations. Below is the breakdown of the final accumulative grading:

- Individual Exercises 30 points
- Group Exercises 20 points
- Final Group Project 30 points
- Final Written Exam 20 points



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## Job Performance Requirements

Given information from discussion and reading materials, the student will satisfy the Job Performance Requirements (JPR) of the applicable National Fire Protection Association (NFPA) standards.

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

NFPA 1021, Standard for Fire Officer Professional Qualifications, 2014 Edition

NFPA 4.5.1 Describe the procedures of the authority having jurisdiction (AHJ) for conducting fire inspections, given any of the following occupancies, so that all hazards, including hazardous materials, are identified, approved forms are completed, and approved action is initiated:

- (1) Assembly
- (2) Educational
- (3) Health care
- (4) Detention and correctional
- (5) Residential
- (6) Mercantile
- (7) Business
- (8) Industrial
- (9) Storage
- (10) Unusual structures
- (11) Mixed occupancies

(A) Requisite Knowledge. Inspection procedures; fire detection, alarm, and protection systems; identification of fire and life safety hazards; and identification systems for hazardous materials.

(B) Requisite Skills. The Ability to communicate and to apply the appropriate codes and standards.



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NFPA 4.5.2 Identify construction, alarm, detection, and suppression features that contribute to or prevent the spread of fire, heat, and smoke throughout the building or from one building to another, given an occupancy, and the policies and forms of the AHJ so that a pre-incident plan for any of the following occupancies is developed:

- (1) Assembly
  - (2) Educational
  - (3) Institutional
  - (4) Residential
  - (5) Business
  - (6) Industrial
  - (7) Manufacturing
  - (8) Storage
  - (9) Mercantile
  - (10) Special properties
  - (11) Mixed Occupancies
- (A) Requisite Knowledge. Fire behavior; building construction; inspection and incident reports; detection, alarm, and suppression systems; and applicable codes, ordinances, and standards.
- (B) Requisite Skills. The ability to use evaluative methods and to communicate.

NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner, 2014 Edition

3.3.20.1 – Fire Protection Systems. Systems, devices, and equipment used to detect a fire and its by-products, actuate an alarm, or suppress or control a fire and its by-products, or any combination thereof.

4.2.1 – Prepare inspection reports, given agency policy and procedures, and observations from an assigned field inspection, so that the report is clear and concise and reflects the findings of the inspection in accordance with the applicable codes and standards and the policies of the jurisdiction.

4.2.5\* - Identify the applicable code or standard, given a fire protection, fire prevention, or life safety issues, so that applicable document, edition, and section are referenced.



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4.3.1 – Identify the occupancy classification of a single-use occupancy, given a description of the occupancy and its use, so that the classification is made according to the applicable codes and standards.

4.3.5\* - Determine the operational readiness of existing fixed fire suppression systems, given test documentation and field observations, so that the systems are in an operational state, maintenance is documented, and deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction.

4.3.7 – Determine the operational readiness of existing portable fire extinguishers, given field observations and test documentation, so that equipment is in an operational state, maintenance is documented, and deficiencies are identified, documented, and reported in accordance with the policies of the jurisdiction.

4.3.9 – Compare an approved plan to an existing fire protection system, given approved plans and field observations, so that any modifications to the system are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction.

4.3.15\* - Determine code compliance, given the codes, standards, and policies of the jurisdiction and a fire protection issue, so that the applicable codes, standards, and policies are identified, and compliance is determined.

4.3.16 – Verify fire flows for site, given fire flow test results and water supply data, so that required fire flows are in accordance with applicable codes and standards and deficiencies are identified, documented and reported in accordance with the applicable code and standards and the policies of the jurisdiction.

5.3.4\* - Evaluate fire protection systems and equipment provided for life safety and property protection, given field observations of the facility and documentation, the hazards protected, and the system specifications, so that the fire protection systems provided are approved for the occupancy or hazard being protected.