



Course Description

FFP1510 | Codes and Standards | 3.00 credits

The purpose of this course is to familiarize students or current inspectors with the Florida Fire Prevention Code which includes NFPA101, NFPA 1, FSS633 and FAC69A. Students will learn how to research the codes and apply them to inspection activities.

Course Competencies:

Competency 1: The student will comprehend the concepts of building construction components and techniques related to fire and life safety by:

1. Describing building construction components and techniques as they relate to building codes, fire and life-safety codes, fire prevention and inspection, firefighter safety, and firefighting strategy and tactics
2. Distinguishing the Classifications of major types of building construction as applicable with “model” building codes
3. Interpreting the hazards and tactical considerations associated with the various types of building construction
4. Describing principle structural components in a typical building design
5. Explaining the function of each building design
6. Comparing defined differences in fire resistance construction, the flame spread within building types, and describe the testing procedures used to establish ratings for each
7. Classifying occupancy designations of the building and fire code

Competency 2: The student will understand the history and philosophy of fire prevention, including code enforcement, public information, organization and operation of a fire prevention bureau, utilization of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education by:

1. Identifying the laws, rules, codes, and other regulations relevant to fire protection of the authority having jurisdiction

Competency 3: The student will describe the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, and water supply for fire protection and portable fire extinguishers by:

1. Explaining the benefits of fire protection systems in various types of structures
2. Explaining why water is a widely used extinguishing agent and how water extinguishes fires
3. Identifying the different types and components of sprinkler, standpipe and foam systems
4. Defining the benefits of residential sprinkler legislation in NFPA 13
5. Identifying sprinkler design requirements for residential occupancies NFPA 13R
6. Analyzing the different types of non-water- based fire suppression systems and how these extinguish fire
7. Describing the basic components of a fire alarm system
8. Comparing defined differences in fire-resistant construction and the flame spread within building types
9. Describing testing procedures used to establish ratings for fire resistance and flame spread
10. Identifying portable fire extinguisher inspection and testing requirements for all types of extinguishers

Competency 4: The student will discuss the federal, state, and local laws that regulate emergency services, national standards influencing emergency services, standard of care, tort, liability, and a review of court cases. by:

1. Describing federal, state, and local laws, which regulate or influence emergency services
2. Defining discrimination and identify areas of potential discrimination in the emergency service as it relates to state and federal laws

Learning Outcomes:

- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information
- Create strategies that can be used to fulfill personal, civic, and social responsibilities
- Demonstrate knowledge of ethical thinking and its application to issues in society