



FIR 263: Fire Protection Systems and Equipment

This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. Three lecture hours per week. Instructional Support Fee applies. (FESHE Approved)

Course Student Learning Outcomes

Students will be able to:

1. Explain the benefits of fire protections systems in various types of structures
2. Describe the basic elements of public water supply system including sources, distribution networks, piping, and hydrants
3. Explain why water is a commonly used extinguishing agent
4. Identify the different types and components of sprinkler, standpipe, and foam systems
5. Review residential and commercial sprinkler legislation
6. Identify the different types of non-water based fire suppression systems
7. Explain the basic components of a fire alarm system
8. Identify the different types of detectors and explain how they detect fire
9. Describe the hazards of smoke and list the four factors that can influence smoke movement in a building

1

1. Discuss the appropriate application of fire protection systems

1

1. Explain the operation and appropriate application for the different types of portable fire protection systems

Credits: 3

Program: Fire Science