

J. Sargeant Reynolds Community College  
Course Content Summary

Course Prefix and Number: FST 215 Credits: 3

Course Title: Fire Protection Systems

Course Description:

Provides information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers. Lecture 3 hours per week.

General Course Purpose:

Provides students with an understanding of the operation and design of fire protection systems.

Course Prerequisites and Co-requisites:

None

Student Learning Outcomes:

Upon completion of this course, you will be able to:  
various types of structures;

- x Summarize the basic elements of a public water supply system as it relates to fire protection systems;
- x Explain the operation and appropriate application for the different types of portable fire protection systems;
- x Identify the different types and components of sprinkler, standpipe and foam systems;
- x Discuss residential and commercial sprinkler legislation;
- x Compare the basic components and detectors in a fire alarm system;
- x Describe the hazards of smoke, and list the 4 factors that can influence smoke movement in a building.

Major Topics to Be Included:

1. Introduction to Fire Protection Systems
  - a. The Role Fire Protection Systems



- b. Selection
- c. Placement
- d. Maintenance
- e. Portable Fire Extinguisher Operations

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