

6. **Student Learning Outcomes** (Identify 1-6 expected learner outcomes using active verbs.)

Upon successful completion of the course, the student will be able to:

1. Recognize the basic types of fire protection equipment and systems.
2. Identify design and installation requirements.
3. Demonstrate knowledge of fire protection systems' operating requirements.

7. **Course Objectives** (Identify specific teaching objectives detailing course content and activities. *For some courses, the course objectives will be the same as the student learning outcomes. In this case, "Same as Student Learning Outcomes" is appropriate here.*)

1. Compare smoke and fire movement in various types of construction and the relationship to systems and equipment.
2. Describe organizations that provide information or service to fire protection systems.
3. Define types, classifications and effectiveness ratings of fire extinguishers.
4. Describe distribution, installation and test requirements for fire extinguishers.
5. List types, components and operation of fire protection systems and equipment for special hazards.
6. Identify water supply requirements, distribution systems and testing for public and private fire protection.
7. Explain the application of hydraulic theory for fire protection.
8. List types, components and operation of automatic and special sprinkler systems.
9. List types of standpipe systems and water supply requirements.
10. Compare detection, alarm and supervisory devices and systems.
11. Compare heat and smoke control devices and hardware.

8. **Course Content** (Brief but complete topical outline of the course that includes major subject areas [1-2 pages]. Should reflect all course objectives listed above. In addition, a sample course syllabus with timeline may be attached.)

Please see attached topical outline

9. **Representative Instructional Methods** (Describe instructor-initiated teaching strategies that will assist students in meeting course objectives. Describe out-of-class assignments, required reading and writing assignments, and methods for teaching critical thinking skills. **If hours by arrangement are required, please indicate the additional instructional activity which will be provided during these hours, where the activity will take place, and how the activity will be supervised.**)

Lecture
Reading and research
Individual and/or group projects
Facilitated discussions

10. **Representative Methods of Evaluation** (Describe measurement of student progress toward course objectives. Courses with required writing component and/or problem-solving emphasis must reflect critical thinking component. If skills class, then applied skills.)

Quizzes and Written exams
Class presentations (preparation of presentation and oral presentation)
Class participation

11. **Representative Text Materials** (With few exceptions, texts need to be current. Include publication dates.)

Fire Detection and Suppression Systems (IFSTA) 3rd Ed. 2005

Design of Special Hazard and Fire Alarm Systems (Gagnon) 2nd Ed. 2008

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