

ATPF-2510: SPRINKLER FIRE PROTECTION

Cuyahoga Community College

Viewing: ATPF-2510 : Sprinkler Fire Protection

Board of Trustees:

2012-06-28

Academic Term:

Spring 2019

Subject Code

ATPF - Applied Ind Tech - Pipefitters

Course Number:

2510

Title:

Sprinkler Fire Protection

Catalog Description:

Instructional course describing the proper installation, service and maintenance of sprinkler fire protection systems.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

Departmental approval: admission to Pipefitter's apprenticeship program.

Outcomes

Course Outcome(s):

1. Identify various fire protection systems.

Objective(s):

1. Recognize wet and dry fire protection systems.
2. Identify various parts of the fire protection system.
3. Identify area limitations of sprinkler heads.
4. Discuss safe working practices of fire protection systems.

Course Outcome(s):

2. Layout and install fire protection systems.

Objective(s):

1. Identify various fire protection drawings.
2. Recognize fire protection equipment.
3. Identify various means of connecting fire protection piping.

Course Outcome(s):

3. Identify various fire pumps.

Objective(s):

1. Recognize and test fire pumps.
 2. Identify working parts of fire pumps.
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Methods of Evaluation:

1. Tests
2. Quizzes
3. Class participation

Course Content Outline:

1. Fire Protection Systems
 - a. Wet fire protection system
 - b. Dry fire protection system
 - c. Pre-action and deluge system
 - d. Safety practices within the fire protection system
2. Working parts of Fire Protection System
 - a. Upright and pendent sprinkler head
 - b. Side-wall sprinkler heads
 - c. Extended coverage sprinkler heads
 - d. Hanging, bracing and restraint of systems
 - e. Pipe, fittings, guides and supports
3. Fire Pumps and Underground service
 - a. Centrifugal pumps
 - b. Positive displacement pumps
 - c. Pump drivers and controllers
 - d. Underground piping
 - i. Joining of pipe and fitting
 - ii. Joint restraint and thrust blocks

Resources

National Fire Protection Association 99 copyright 2005. *NFPA 13, Installation of Sprinkler Systems*. existing. NFPA, 2011.

National Fire Protection Association 99 copyright 2005. *NFPA 24, Installation of Private Fire Service Mains and Their Appurtenances*. existing. NFPA, 2011.

National Fire Protection Association 99 copyright 2005. *NFPA 20, Installation of Stationary Pumps for Fire Protection*. current. NFPA, 2011.

National Fire Protection Association 99 copyright 2005. *NFPA 25, Inspection Testing and Maintenance of Water-Based Fire Protection Systems*. existing. NFPA, 2011.

Resources Other

en.wikipedia.org/wiki/Fire_sprinkler -

[www. \(http://www.firesprinkler.org/\)firesprinkler.org/](http://www.firesprinkler.org/)

[www.cintas.com/ \(http://www.cintas.com/Fire-Protection.../Sprinkler-Systems.aspx\)](http://www.cintas.com/)**Fire-Protection.../Sprinkler-Systems.aspx**

[www.usa \(http://www.usafireprotectioninc.com/\)fireprotectioninc.com/](http://www.usafireprotectioninc.com/)

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