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Course Description

This course is designed to increase the firefighters knowledge of various types of sprinkler systems and the working of these systems.

Prerequisites: FRS 1048 or Consent

Corequisite: None

Task List

1.	Identify the sources of water supply for sprinkler systems, including: <ul style="list-style-type: none"> a. Public water systems; b. Gravity tank; c. Pressure tank; d. Pumps; and e. Fire department connections.
2.	Describe how the direction of water flow through a fire department connection check valve can be determined, including: <ul style="list-style-type: none"> a. Arrows; and b. Pivot casting.
3.	Identify The location and appearance of the control and operating valves of a sprinkler system, including: <ul style="list-style-type: none"> a. Outside screw and yoke (OS&Y); b. Post indicator; and c. Wall post indicator.
4.	Identify the main drain valve on an automatic sprinkler system.
5.	Open and close a main drain valve on an automatic sprinkler system.
6.	Identify and define the dangers of the premature closure of a sprinkler main control valve and of using hydrants to supply hose streams when the same water system is supplying the automatic sprinkler system.
7.	Identify the difference between an automatic sprinkler system that affords complete coverage and a partial sprinkler system.
8.	Describe the following types of sprinkler systems: <ul style="list-style-type: none"> a. Wet pipe; b. Dry pipe; c. Deluge; and d. Residential.
9.	Read and record the indicated pressures on all gauges provided on a standard wet pipe automatic sprinkler system and identify each gauge.
10.	Read and record the indicated pressures on all gauges provided on a standard dry pipe automatic sprinkler system and identify each gauge.
11.	Define the reliability of automatic sprinkler systems and give 8 reasons for unsatisfactory performance.
12.	Given a check valve on the fire department connection to an automatic sprinkler system, demonstrate the direction of water flow through the valve.
13.	Demonstrate methods for augmenting water supplies to sprinkler systems.
14.	Given specific information on a sprinkler system, identify the number of sprinkler heads that can be adequately supplied by various capacity fire department pumpers.
15.	Given specific information on a sprinkler system, calculate the hose layouts, pump discharge pressure, and procedures to adequately supply water to the sprinkler system.
16.	Given specific information on a dry standpipe system, calculate the hose layouts; pump discharge pressure, and procedures to adequately supply water to the dry standpipe system.
17.	Given specific information on a wet standpipe system, calculate the hose layouts; pump discharge pressure, and procedures to adequately supply water to the standpipe system.
18.	Identify the proper methods and procedures to supply a standpipe system if the fire department connection is not usable.

Instructor Equipment List

Dry pumper
Standpipe system
Wet standpipe system
Hose and appliances

Student Equipment List

Personal protective equipment

Old FRT Number: 460 / FRT 149