

UA Fire Protection Systems Training

This course for the United Association (UA) was intended to provide deep knowledge of fire suppression systems for fire protection professionals, including functionality, components, and compliance with industry standards. Each interactive module was capped by a “3D explorer” experience that let learners walk virtually through a typical system, in which they could explore a simulated system, examine or interact with components through 360-degree views, and learn more about functionality and specs through tips and videos. I managed extensive coordination and documentation between various subject matter experts and the VR team to ensure accuracy of technical renderings and functionality.

Audience: Adults seeking certification as fire protection professionals

Development tools: Captivate, Audacity, Photoshop, Unity (for VR)

Activities: Instructional design, e-learning development, storyboarding (Captivate and virtual reality), assessment writing, QA, project management, direction of artists and VR developers.

The screenshot displays the Mosaic Learning website interface. At the top left is the Mosaic Learning logo, and at the top right are navigation links for 'HOME' and 'COURSES'. Below the logo is a breadcrumb trail: 'Home > My home'. On the left side, there is a navigation menu with sections: 'Navigation' (containing 'My home', 'Site pages', 'My profile', 'My courses', and 'FPS'), 'Administration' (containing 'My profile settings'), 'My private files' (showing 'No files available' and a 'Manage my private files' button), and 'Online users'. The main content area is titled 'MY COURSES' and features a large image of a blue industrial building with the text 'FIRE PROTECTION SYSTEM' overlaid. Below the image is the course title 'Fire Protection Systems'. On the right side of the main content area, there are two buttons: 'Customise this page' and 'All Courses'. At the bottom left of the page, there is a timestamp '(last 5 minutes)'.

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MOSAIC LEARNING HOME COURSES

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Navigation

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Module 1: Introduction to Automatic Sprinklers

- Lesson 1: The Basics of Fire
- Lesson 2: The Typical Sprinkler System
- Lesson 3: Basic Sprinkler System Design
- Lesson 4: Sprinkler Basics
- Lesson 5: How Sprinkler Systems Work
- Module Review
- 3D Explorer

Module 2: Fire Sprinkler System Types

Module 3: Fire Sprinkler System Components and Their Usage

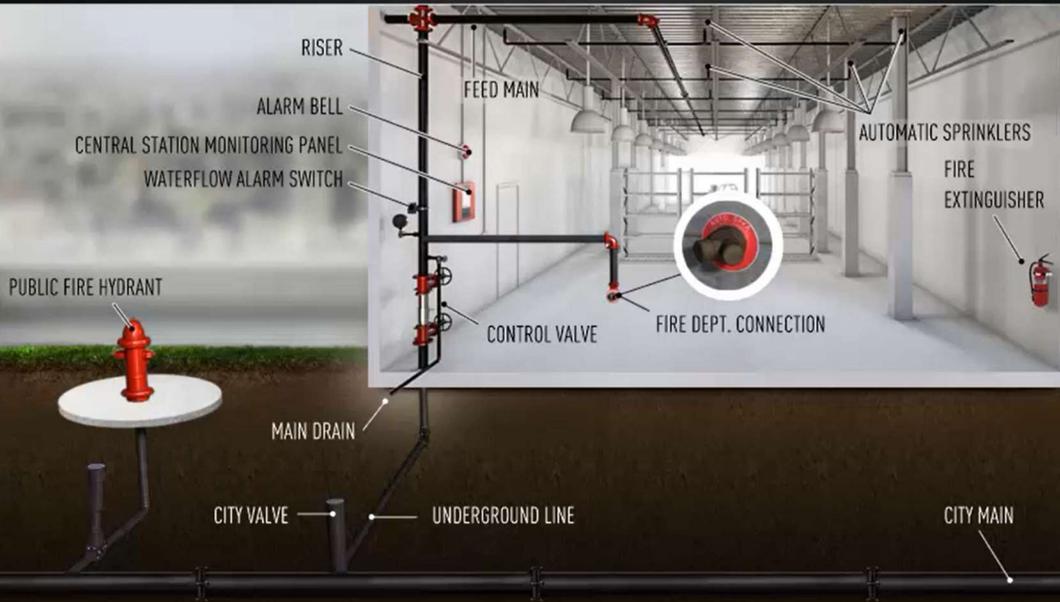
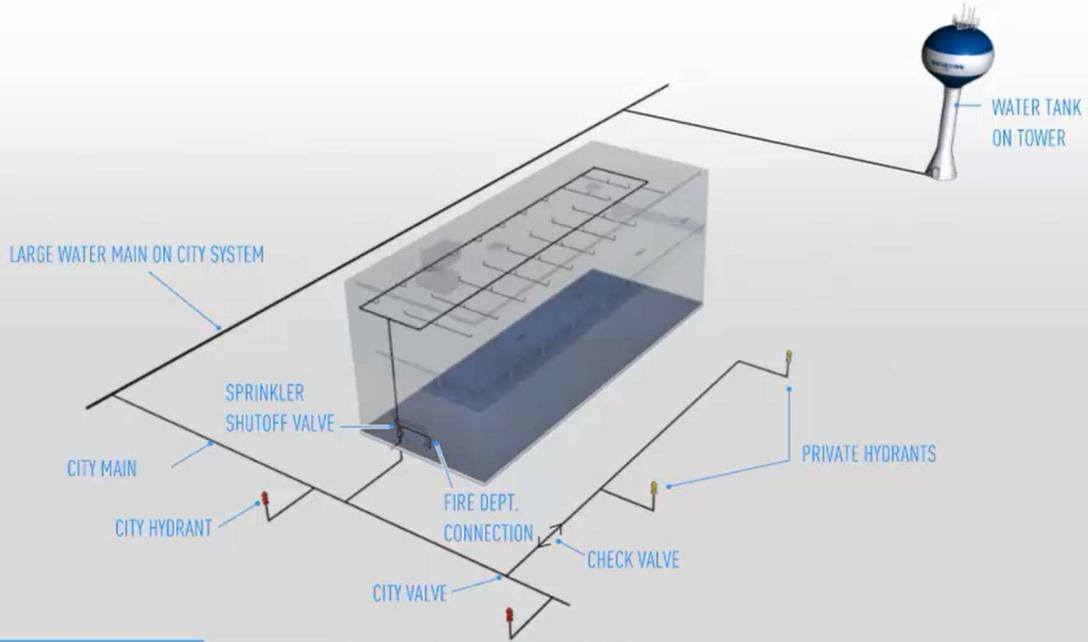
Module 4: Hangers and Piping Systems

UA FIRE PROTECTION SYSTEMS | **Module 1: Introduction to Automatic Sprinkler Systems**
Lesson 2: The Typical Sprinkler System



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Sprinkler Characteristics



Thermal Sensitivity / RTI

Temperature Ratings

Orifice / K-Factor

Installation & Orientation

Water Distribution Characteristics

Special Service Conditions



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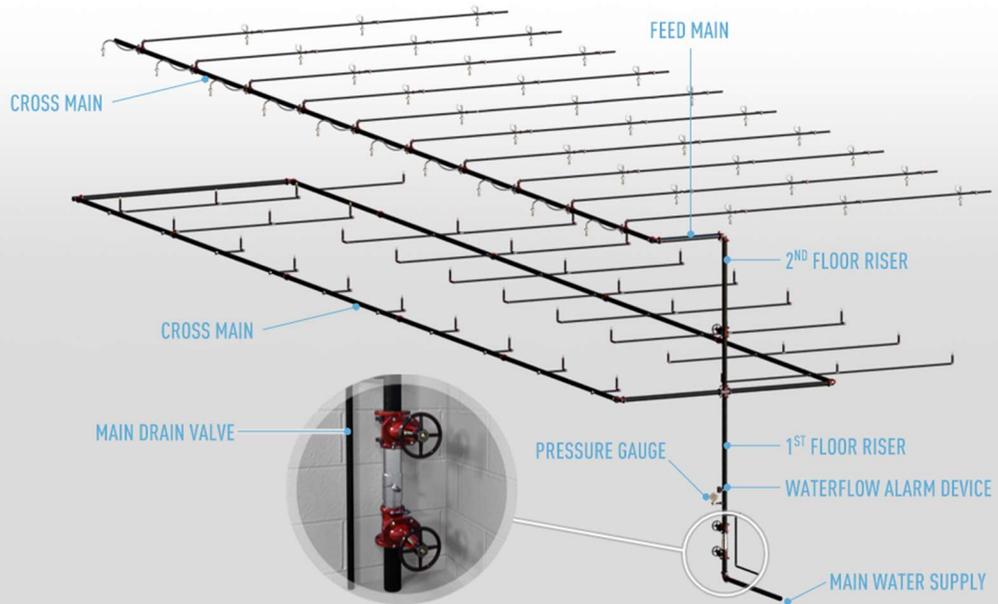
Pendent Sprinkler

A fire sprinkler or sprinkler is the component of a fire sprinkler system that discharges water when a predetermined temperature has been exceeded due to fire. The Pendent Sprinkler is designed to be installed so that the water stream is directed downward against the deflector, creating an umbrella shaped spray pattern toward the floor





SYSTEM DESIGN FACTORS





BACK TO OFFICE VIEW

INFORMATION

HOW IT WORKS

SPECIFICATIONS



Fire sprinkler systems can produce back pressure, or backflow, in a water supply distribution system.

A backflow prevention device is used to protect potable water supplies from contamination or pollution due to backflow.

The backflow preventer is installed at the beginning of a sprinkler system to prevent pollutants from flowing out of the fire suppression system into the public water supply.

This Double Check Valve Assembly (DCVA) prevents backflow through a two-check valve design.

DCVAs consist of two independent, internally loaded check valves, two resilient seated shutoff valves, and four properly located test cocks.

A DCVA is designed for non-health-hazard applications and may be installed under continuous pressure service to protect against both back pressure and back siphonage.