

## Fire Safety & Sprinkler System

Effective troubleshooting and maintenance skills will significantly mitigate the risk of an automatic sprinkler system failure. This course will provide the participant with the information needed to maintain, troubleshoot, and ensure proper testing of the system by internal employees or vendors. Additional training is provided on applicable OSHA and NFPA requirements for fire prevention. Engineers, supervision, managers, safety personnel, and those responsible for ensuring a safe work environment should attend this course. This course is supplemented with a walk down of the location's system with participants.

Duration: 8 or 16 Hour Program

### **Basics of loss prevention**

What is risk  
How common factors affect losses

### **NFPA 13 – Sprinkler Systems**

Value of sprinklers  
Types of systems  
Changes to building

### **NFPA 25 – Inspection, Testing and Maintenance of Water Based Extinguishing Systems**

Purpose and scope  
Inspection, Testing & Maintenance  
Frequencies  
Wet pipe/Dry pipe  
Deluge and Pre-action systems  
Cold weather  
Trip tests & Documentation  
Repairs and follow up  
Supervising contractors  
Sprinkler system impairments

### **Water Supplies for Fire Protection**

Adequacy  
Reliability  
Sources  
Water supply testing and evaluation

### **Fire Pumps**

Types of pumps and drivers  
NFPA 25 and ITM of fire pumps  
Electric fire pumps  
Diesel fire pumps  
Annual pump tests and evaluation  
Documentation  
Repairs and follow up

### **Flammable liquids**

Hazards of flammable liquids  
NFPA 30 requirements overview  
Storage rooms  
Handling rooms  
Transportation within the plant  
Flammable liquids cabinets

16 hour course includes all above topics with additional in depth discussion on the following:

**NFPA 25 Wet Pipe System Requirements** – Types of valves, main drain tests

**NFPA 25 Dry Pipe, Pre Action, and Deluge Systems** – Water delivery times, types of valves

**VESDA** - What is VESDA, How does it work, alert and alarm points OSHA requirements

**Emergency Plans** - Fire prevention plans, Emergency action plans, Summary of OSHA and NFPA requirements