

Seminar Title: Introduction to Water-based Fire Protection Systems

Seminar Description: This full day seminar describes the basic types of sprinklers, how various sprinkler systems operate, the various types and classes of Standpipe systems and how they operate, the types of fire pumps and how they operate, an overview of Inspection, Testing and Maintenance, and an overview of what all firefighters should know about these various systems both pre and post fire events.

Total Instructional Contact Hours: 8 Contact Hours

Learning Outcomes: At the conclusion of this seminar the participant will be able to:

1. Identify the various types of sprinklers and their typical uses
2. Describe the various types of sprinkler systems, where they are typically used and why and the major differences among them.
3. Identify the various types and classes of standpipe systems, where they are used, and for whom they were designed.
4. Describe the differences between centrifugal and positive displacement fire pumps.
5. Describe where different types of fire pumps are utilized.
6. Identify the major components of centrifugal fire pumps and describe their function.
7. Describe the various functions regarding the inspection, testing and maintenance of all water based fire protection systems.
8. Identify the responsibilities of the AHJ, the owner and the contractor in relation to the requirements of NFPA 25.
9. Describe the specific issues that all firefighters should as they relate to the knowledge of water based fire protection systems, both prior to a fire incident, and after the event has occurred.

Seminar Format(s): Lecture, Discussion, Identification activities, group activity

Participant Materials: Participant Guide.

Assessment Method: In-class participation, use of the Participant Guide, group discussion.