SPRINKLER PROTECTION OF SPECIAL STORAGE

This one-day program familiarizes attendees with using the various appropriate standards (NFPA 13, 30 & 30B) to determine the basic requirements for sprinkler systems in protecting Special Storage situations. The course is specifically designed to address the protection requirements for Rubber Tires, Rolled Paper, Baled Cotton, Plastic Automotive Parts, Special Retail Store Designs developed by the Retail Fire Research Coalition, Compact Storage, Flammable/Combustible Liquids & Aerosol Products. There are also a number of definitions covered addressing these special hazards where appropriate. In addition, the program contains an explanation of the abilities of ESFR sprinklers. The course emphasizes gaining familiarity with the standard by actually using the standards to solve practical application problems.

PARTICIPANTS WILL NEED A COPY OF NFPA-13, NFPA 30, NFPA 30B (Current Edition)

This is an advanced level class.

Overview – Assists the participants with understanding the design criteria used in protecting Special Hazards.

Goal – Familiarize the participant with utilizing the rules that govern the criteria for the storage and protection of Special Hazards.

Learning Objectives for Participants:

- Gain an understanding of the special abilities of CMSA & ESFR sprinklers
- Understand the different definitions for various types of Special Hazards
- Become familiar with the various standards used to govern the storage & protection of Special Hazards
- Become familiar with how to properly use the appropriate standard to determine where to find the proper guidance for protection schemes
- Gain an understanding of the specialized designs used for specific types of Special Hazards based on recent research efforts
- Become familiar with utilizing the standards to determine the basic design requirements for Special Hazards when using Standard Spray, CMSA or ESFR sprinklers

Course Outline

- Protection of rubber tires
- Protection of baled cotton
- Definitions & protection of rolled paper
- Chapter 20
  - Plastic vehicle motor parts
  - Protection of special retail store design developed by the Retail Fire Research
  - Compact Storage
• Definitions, protection requirements for storage & protection of flammable & combustible liquids
• Definitions, protection requirements for storage & protection of aerosol products

Experience Level – INTERMEDIATE to ADVANCED: This seminar is well suited for participants who are:
• Code Officials (Building/Fire/Mechanical)
• Plan Reviewers
• Designers/ Layout Technicians/Contractors
• Design Professionals (Architects/Engineers)
• Insurance Representatives

Prerequisites – For attendees who:
• Know and apply the codes/standards
• Have one to two years in code enforcement
• Possess a basic knowledge in construction
• Can read and understand basic construction drawings/technical documents

Sprinkler Protection of Special Storage Syllabus
8:00-8:30 Introduction and Class Outline
8:30-9:30 CMSA & ESFR Update
9:30-10:00 Protection of Rubber Tires
10:00-10:15 Break
10:15-11:30 Protection of Rubber Tires (continued)
11:30-12:00 Protection of Bailed Cotton
12:00-1:00 Lunch
1:00-2:00 Protection of Rolled Paper
2:00-3:00 Special Designs – Chapter 20
Slatted Storage
Retail Merchants Storage Schemes
Compact Storage
3:00-3:15 Break
3:15-4:15 Protection of Flammable and Combustible Liquids
4:15-5:00 Protection of Aerosols