

Seminar Information Sheet

Seminar Title: Pumps for Fire Protection

Seminar Description: Utilizing NFPA 20, *Standard for the Installation of Stationary Pumps for Fire Protection* this one-day program guides the participant through the basic operating principles of fire pumps; the requirements for the various components that make up a fire pump package and addresses the requirements for acceptance testing for the pump to ensure proper operation.

Duration: 1 Day

Number of Modules: 5

Total Instructional Contact Minutes: 390 min. (7 CEUs and 7CPD)

Learning Objectives:

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

- Describe the types of fire pumps and their applications
- Identify fire pump components
- Locate the requirements for fire pumps in NFPA 20
- Discuss installation requirements of electric motor and engine driven fire pumps
- Apply acceptance testing requirements for fire pumps and related equipment

Seminar Schedule

Module 1 – Introduction to Fire Pumps	8:00 – 9:15
Break	9:15 – 9:30
Module 2 – General Requirements	9:30 – 12:00
Lunch	12:00 – 1:00
Module 3 – Electric Motor Driven Pumps	1:00 – 2:00
Module 4 – Diesel Engine Driven Pumps (with Break)	2:00 – 3:30
Module 5 – Fire Pump Acceptance Testing	3:30 – 4:30

Seminar Format(s): Lecture, Discussion, Activities

Participant Materials: NFPA 20, Participant Guide

Module 1 – Introduction to Fire Pumps

Learning Objectives:

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

- Discuss why fire pumps are necessary
- Discuss the use and application of NFPA 20
- Describe the function of fire pumps
- Describe the types of fire pumps as defined in NFPA 20

Module 2 – General Requirements

Learning Objectives:

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

- Identify the general requirements for fire pump installation
- Describe the correct application and installation of fire pump components
- Describe the correct application and installation of pressure maintenance pumps

Module 3 – Electric Motor Driven Pumps

Learning Objectives:

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

- Identify the types of power sources and the requirements for each
- Describe the installation requirements and applications of electric motor driven fire pumps

Module 4 – Diesel Engine Driven Pumps

Learning Objectives:

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

- Describe and discuss the installation requirements and applications of diesel engine driven fire pumps
- Calculate the adjustments necessary for diesel engine performance and fuel.

Module 5 – Fire Pump Acceptance Testing

Learning Objectives:

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

- Apply commissioning requirements for fire pumps and related equipment
- Describe the appropriate tests, required equipment, and correct test procedure for a fire pump test
- Evaluate fire pump test data