

# 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

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

**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