



*Training Course:
Installation of Stationary Pumps for Fire
Protection*

*18 - 22 January 2027
Barcelona (Spain)*

Training Course: Installation of Stationary Pumps for Fire Protection

Training Course code: SC234773 From: 18 - 22 January 2027 Venue: Barcelona (Spain) - Training Course Fees: 6300 € Euro

Introduction

Your knowledge and expertise in stationary fire pumps helps you make informed decisions that eliminate costly errors, improve project efficiency, and protect lives and property. This comprehensive training course offers guidance through the processes of designing and installing stationary fire pumps based on requirements in NFPA® 20, Standard for the Installation of Stationary Pumps for Fire Protection, 2019 edition..

Course Objectives

After completing the training program, participants will be able to:

- State the purpose of fire pumps and differentiate between pump types, applications, and characteristics.
- List the requirements for fire pump performance based on unit sizing, water and power supply types, and additional factors.
- Identify the requirements for the installation of fire pumps and peripheral equipment.
- Identify and apply requirements for the construction and protection of fire pump enclosures.
- Explain the criteria for determining the appropriate components and system layout for a fire pump assembly.
- Define critical terms and design considerations such as "balanced flow" and "unbalanced flow".
- Reference considerations for special project situations such as high-rise buildings, diesel fuel tanks, and fire pump pressure controls.
- Locate and apply requirements for finalizing a fire pump installation including acceptability testing, inspections, and documentation.

Target Audience

This training program is for:

- Water-based systems engineers
- Designers
- Plan reviewers
- Installers

- Maintenance personnel
- Inspectors
- Manufacturers
- Insurers

Course Outlines

Day 1: Fire Pumps for High-Rise Buildings & Water Supply Systems

- Fire Pumps for High-Rise Buildings
- Equipment Access
- Water Supply Tanks
- Fire Pump Test Arrangement
- Auxiliary Power
- Very Tall Structures Considerations
- Centrifugal Pumps
- Factory and Field Performance
- Fittings
- Foundation and Setting
- Connection to Driver and Alignment

Day 2: Vertical Shaft & Pump Types Installation

- Vertical Shaft Turbine-Type Pumps
- Water Supply
- Pump Installation
- Driver
- Operation and Maintenance
- Positive Displacement Pumps
- Foam Concentrate and Additive Pumps
- Water Mist System Pumps
- Water Mist Positive Displacement Pumping Units
- Fittings
- Pump Drivers
- Controllers
- Foundation and Setting
- Driver Connection and Alignment

Day 3: Flow Testing, Electric Drive & Power Systems

- Flow Test Devices
- Electric Drive for Pumps
- Normal Power
- Alternate Power
- Voltage Drop
- Motors
- On-Site Standby Generator Systems
- Junction Boxes

- Listed Electrical Circuit Protective System to Controller Wiring
- Raceway Terminations
- Electric-Drive Controllers and Accessories
- Location
- Construction
- Components
- Starting and Control

Day 4: Controllers, Diesel Engine & Power Management Systems

- Controllers Rated in Excess of 600 V
- Limited-Service Controllers
- Power Transfer for Alternate Power Supply
- Controllers for Additive Pump Motors
- Variable Speed Pressure Limiting Control Systems
- Variable Speed Suction Limiting Control Systems
- Diesel Engine Drive Systems
- Engines
- Pump Room
- Fuel Supply and Arrangement
- Engine Exhaust
- Diesel Engine Driver System Operation
- Engine Drive Controllers
- Battery Recharging and Battery Chargers
- Starting and Control
- Air-Starting Engine Controllers

Day 5: Steam Turbine Systems & Testing, Maintenance

- Steam Turbine Systems
- Turbine Installation
- Acceptance Testing, Performance, and Maintenance
- Hydrostatic Tests and Flushing
- Field Acceptance Tests
- Record Drawings, Test Reports, Manuals, Special Tools, and Spare Parts
- Periodic Inspection, Testing, and Maintenance
- Component Replacement

Registration form on the Training Course: Installation of Stationary Pumps for Fire Protection

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

Delegate Information

Full Name (Mr / Ms / Dr / Eng):
Position:
Telephone / Mobile:
Personal E-Mail:
Official E-Mail:

Company Information

Company Name:
Address:
City / Country:

Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng):
Position:
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Personal E-Mail:
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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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or training@gh4t.com

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3 Oudai street, Aldouki,
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