



*Training Course:
Fire Protection Systems*

*18 - 22 July 2027
Cairo (Egypt)*

Training Course: Fire Protection Systems

Training Course code: EN234772 From: 18 - 22 July 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Fire protection systems are essential for safeguarding lives, assets, and infrastructure by preventing, detecting, and controlling fire hazards. Effective system design, installation, and maintenance are critical to ensure rapid response and compliance with safety regulations.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to design, operate, and maintain fire protection systems in accordance with international standards and best practices.

Course Objectives

By the end of this program, participants will be able to:

- Understand the fundamentals of fire protection systems and fire behavior
- Identify different types of fire protection systems and their applications
- Design fire protection systems based on risk assessment
- Apply installation and maintenance best practices
- Ensure compliance with international standards NFPA, ISO
- Perform inspection, testing, and system evaluation
- Integrate fire protection systems with detection and alarm systems
- Enhance safety and emergency response readiness

Target Audience

This program is designed for:

- Fire Protection Engineers and Safety Officers
- Mechanical and Electrical Engineers
- HSE and Risk Management Professionals
- Facility and Maintenance Engineers
- Construction and Project Engineers
- Technicians involved in fire system installation and maintenance

Outline

Day 1: Fundamentals of Fire Protection Systems

- Basics of fire science and fire behavior
- Types of fire hazards and classifications
- Overview of fire protection strategies prevention, detection, suppression
- Fire protection standards and codes NFPA, ISO
- Risk assessment fundamentals

Day 2: Fire Detection and Alarm Systems

- Types of fire detection systems
- Fire alarm system components and operation
- Detector selection and placement
- Alarm signaling and communication systems
- Integration with fire protection systems

Day 3: Fire Suppression Systems

- Water-based systems sprinklers, hydrants, standpipes
- Gas suppression systems CO₂, FM-200, inert gases
- Foam and dry chemical systems
- System selection based on hazard type
- Design considerations and system components

Day 4: Installation, Testing, and Maintenance

- Installation best practices
- Inspection and testing procedures
- Preventive maintenance strategies
- Troubleshooting system issues
- Documentation and compliance

Day 5: Safety Management, Compliance, and Case Studies

- Fire safety management systems
- Emergency response and evacuation planning
- Regulatory compliance and audits
- Performance evaluation and system optimization
- Case studies and real-world applications

Registration form on the Training Course: Fire Protection Systems

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

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