



Training Course:
Fire Detection and Alarm Systems: Principles
and Practice

9 - 13 November 2025

Dubai (UAE)

Residence Inn by Marriott Sheikh Zayed Road, Dubai

Training Course: Fire Detection and Alarm Systems: Principles and Practice

Training Course code: EN235466 From: 9 - 13 November 2025 Venue: Dubai (UAE) - Residence Inn by Marriott Sheikh Zayed Road, Dubai Training Course Fees: 5300 € Euro

Introduction

The "Fire Detection and Alarm Systems: Principles and Practice" training program, designed by Global Horizon Training Center, provides participants with an in-depth understanding of fire detection and alarm systems. This course covers the principles of fire detection, the various types of fire alarm systems, and best practices for their design, installation, testing, and maintenance. Participants will acquire practical skills to ensure the effective operation of fire detection and alarm systems, enhancing safety in different environments.

Objectives

- Understand the fundamental principles of fire detection and alarm systems.
- Learn about different types of fire detectors and alarm systems and their applications.
- Develop skills for the design and installation of fire detection and alarm systems.
- Gain proficiency in testing and maintaining fire detection and alarm systems.
- Identify and troubleshoot common issues in fire detection and alarm systems.
- Ensure compliance with relevant safety standards and regulations.

Course Methodology

This course employs a combination of lectures, practical exercises, case studies, and interactive discussions. Participants will engage in hands-on sessions to apply theoretical knowledge, allowing them to develop practical skills and confidence in handling fire detection and alarm systems.

Organizational Impact

By attending this course, organizations will:

- Enhance the safety and reliability of their fire detection and alarm systems.
- Reduce the risk of fire-related incidents and improve emergency response.
- Ensure adherence to industry standards and regulations.
- Improve the expertise of their personnel in fire detection and alarm systems.
- Minimize downtime and maintenance costs through effective system management.

Target Audience

This course is ideal for:

- Safety engineers and managers
- Maintenance and technical personnel
- Electrical and instrumentation engineers
- Fire protection professionals
- Anyone responsible for the design, installation, testing, and maintenance of fire detection and alarm systems

Outlines

Day 1: Introduction to Fire Detection and Alarm Systems

- Overview of fire detection principles
- Types of fire detectors smoke, heat, flame, gas
- Types of fire alarm systems conventional, addressable, wireless
- Applications and industries
- Safety standards and regulations
- Components of fire detection and alarm systems

Day 2: Design of Fire Detection and Alarm Systems

- Risk assessment and site survey
- Selection criteria for fire detectors and alarm systems
- Design guidelines and best practices
- Integration with other safety systems
- Hands-on design exercises

Day 3: Installation of Fire Detection and Alarm Systems

- Installation guidelines and best practices
- Environmental and location considerations

- Wiring and interconnection techniques
- System configuration and programming
- Hands-on installation exercises

Day 4: Testing and Maintenance of Fire Detection and Alarm Systems

- Testing methods and procedures
- Functional and operational testing
- Maintenance schedules and procedures
- Common issues and troubleshooting
- Record keeping and documentation
- Maintenance exercises and case studies

Day 5: Advanced Topics and Case Studies

- Integration with building management systems
- Advanced troubleshooting techniques
- Case studies and real-world examples
- Group discussions and Q&A
- Final assessment and review

Registration form on the Training Course: Fire Detection and Alarm Systems: Principles and Practice

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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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