



*Training Course:
Fire Alarm Panels: Configuration and
Troubleshooting*

*8 - 12 December 2025
Madrid (Spain)
Pestana CR7 Gran Vía*

Training Course: Fire Alarm Panels: Configuration and Troubleshooting

Training Course code: HE236120 From: 8 - 12 December 2025 Venue: Madrid (Spain) - Pestana CR7 Gran Vía Training Course Fees: 6000 € Euro

Introduction

Fire alarm systems are critical components of building safety, and the control panel serves as their command center. The effectiveness of fire detection, notification, and emergency response depends significantly on the proper configuration, integration, and maintenance of the fire alarm panel.

This specialized training program, designed by Global Horizon Training Center, provides participants with the technical knowledge and practical skills necessary to configure, operate, and troubleshoot modern fire alarm panels in a variety of environments. The course covers both conventional and addressable systems, emphasizing system architecture, programming, fault diagnosis, and compliance with fire safety regulations.

Objectives

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

- Understand the functions and architecture of fire alarm control panels
- Configure and program conventional and addressable fire alarm systems
- Interpret system indications, logs, and fault messages
- Troubleshoot common and complex system issues
- Integrate fire panels with other safety systems e.g., sprinklers, voice alarms
- Ensure compliance with applicable standards such as NFPA, EN, and BS
- Conduct preventive maintenance and perform operational testing

Course Methodology

- Instructor-led technical sessions
- Hands-on exercises and simulations
- Interactive case studies
- Real-world troubleshooting scenarios
- Visual demonstrations of configuration processes
- Group discussions and guided diagnostics

Organizational Impact

Organizations that participate in this training will benefit from:

- Increased in-house capability to manage and maintain fire alarm systems
- Enhanced compliance with fire safety regulations and inspection readiness
- Reduced system downtime and maintenance costs
- Improved reliability of fire detection and response systems
- Greater safety awareness and technical competence among staff

Target Audience

This course is intended for:

- Fire alarm technicians and electricians
- Safety and facility engineers
- Maintenance and operations personnel
- Health, Safety, and Environment HSE officers
- Fire system contractors and integrators
- Technical supervisors and consultants in fire protection

Course Outline

Day 1: Fundamentals of Fire Alarm Systems

- Basic principles of fire detection
- Key components of fire alarm systems
- Differences between conventional and addressable systems
- Overview of applicable codes and standards NFPA 72, EN 54, BS 5839
- Basic wiring, loop design, and detector placement

Day 2: Fire Alarm Panel Configuration

- Fire alarm panel interface and functions

- Device programming and zone setup
- Cause and effect programming logic
- Integration of devices: detectors, modules, sounders
- Configuration software and access levels

Day 3: System Testing and Commissioning

- Pre-commissioning requirements and checklist
- System initialization and functional testing
- Detector activation and response testing
- Loop integrity verification and documentation

Day 4: Troubleshooting and Diagnostics

- Identifying and interpreting common fault codes
- Diagnostic procedures and tool usage
- Communication issues and device failures
- Resetting systems and recovering configurations

Day 5: Advanced Topics and Compliance

- Integration with other systems: sprinklers, BMS, emergency lighting
- Remote monitoring and centralized control
- Preventive maintenance and service logs
- Inspection readiness and regulatory audits
- Review, final evaluation, and closing discussion

Registration form on the Training Course: Fire Alarm Panels: Configuration and Troubleshooting

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