



*Training Course:  
Flame Detection Systems: Principles and  
Applications*

*19 - 23 October 2025*

*Cairo (Egypt)*

*Holiday Inn & Suites Cairo Maadi, an IHG Hotel*

## Training Course: Flame Detection Systems: Principles and Applications

Training Course code: EN235462 From: 19 - 23 October 2025 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 4200 € Euro

### Introduction

This training program, designed by the Global Horizon Training Center, aims to provide a comprehensive understanding of flame detection systems, covering both principles and practical applications. Flame detection systems are critical in ensuring safety and preventing fire-related hazards in various industrial environments. Participants will gain valuable insights into the operation, maintenance, and troubleshooting of these systems.

### Objectives

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

- Understand the fundamental principles of flame detection.
- Identify different types of flame detectors and their applications.
- Implement best practices for the installation and maintenance of flame detection systems.
- Analyze and troubleshoot common issues in flame detection systems.
- Enhance safety protocols and reduce fire-related risks in their organizations.

### Course Methodology

The course employs a mix of lectures, hands-on exercises, case studies, and group discussions to ensure a comprehensive learning experience. Participants will have access to the latest industry standards and technologies, and they will engage in practical sessions to apply their knowledge.

### Organizational Impact

Participants will return to their organizations with enhanced knowledge and skills, leading to:

- Improved safety and fire prevention measures.
- Reduced risk of fire-related incidents and associated costs.
- Increased efficiency in the maintenance and operation of flame detection systems.
- Enhanced capability to troubleshoot and resolve issues quickly, minimizing downtime.
- Better compliance with industry standards and regulations.

## Target Audience

This program is ideal for:

- Safety officers and fire prevention personnel
- Maintenance engineers and technicians
- Facility managers
- Electrical and instrumentation engineers
- Health and safety professionals
- Any personnel involved in the operation and maintenance of flame detection systems

## Outlines:

### Day 1: Introduction to Flame Detection Systems

- Welcome and program overview
- Importance of flame detection in industrial safety
- Basic principles of fire and flame detection
- Types of flame detectors: UV, IR, and combined UV/IR
- Applications of flame detectors in various industries

### Day 2: Flame Detector Technologies and Selection Criteria

- In-depth study of UV flame detectors
- In-depth study of IR flame detectors
- Understanding combined UV/IR detectors
- Selection criteria for flame detectors
- Case studies on the application of different flame detectors

### Day 3: Installation and Maintenance of Flame Detection Systems

- Best practices for installing flame detectors
- Calibration and testing procedures

- Regular maintenance and inspection protocols
- Troubleshooting common issues in flame detection systems
- Practical exercises on installation and maintenance

#### Day 4: Advanced Flame Detection Techniques and Safety Protocols

- Advanced flame detection technologies multi-spectrum, neural networks
- Integrating flame detectors with fire suppression systems
- Safety protocols and emergency response planning
- Compliance with industry standards and regulations
- Group discussions on improving safety protocols

#### Day 5: Practical Applications and Case Studies

- Review of key concepts and principles
- Hands-on practical session with flame detection equipment
- Analysis of real-world case studies
- Group projects and presentations
- Course review and feedback session

## Registration form on the Training Course: Flame Detection Systems: Principles and Applications

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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: .....  
Telephone / Mobile: .....  
Personal E-Mail: .....  
Official E-Mail: .....

### Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
- ☐ Please invoice me
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### Easy Ways To Register

Telephone:  
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