



Training Course:
Gas Detection Systems: Design, Installation, and
Compliance

6 - 10 July 2025

Dubai (UAE)

Residence Inn by Marriott Sheikh Zayed Road, Dubai

Training Course: Gas Detection Systems: Design, Installation, and Compliance

Training Course code: EN235464 From: 6 - 10 July 2025 Venue: Dubai (UAE) - Residence Inn by Marriott Sheikh Zayed Road, Dubai Training Course Fees: 5300 € Euro

Introduction

Welcome to the "Gas Detection Systems: Design, Installation, and Compliance" training program. This comprehensive course is designed by the Global Horizon Training Center to equip professionals with the knowledge and skills necessary to design, install, and ensure compliance of gas detection systems in various industrial settings. Through this program, participants will gain a deep understanding of gas detection technologies, industry standards, and best practices to maintain safety and operational efficiency.

Objectives

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

- Understand the principles and technologies behind gas detection systems.
- Design effective gas detection systems tailored to specific industrial needs.
- Properly install and configure gas detection equipment.
- Ensure compliance with relevant industry standards and regulations.
- Conduct regular maintenance and troubleshooting of gas detection systems.
- Enhance workplace safety and reduce the risk of gas-related incidents.

Course Methodology

This training program will employ a blend of instructional methods to ensure a comprehensive understanding of gas detection systems. These methods include:

- **Lectures:** Expert-led sessions covering theoretical aspects and industry standards.
- **Hands-On Workshops:** Practical exercises to design, install, and test gas detection systems.
- **Case Studies:** Real-world scenarios to illustrate best practices and common challenges.
- **Group Discussions:** Interactive sessions to share experiences and solutions.
- **Assessments:** Quizzes and practical tests to evaluate understanding and skills.

Organizational Impact

Implementing the knowledge and skills gained from this training program will benefit organizations by:

- Enhancing safety protocols and reducing the risk of gas-related incidents.
- Ensuring compliance with industry standards and regulations.
- Improving operational efficiency through reliable gas detection systems.
- Reducing maintenance costs with proper installation and regular upkeep.
- Increasing employee confidence and competence in handling gas detection equipment.

Target Audience

This program is designed for:

- Safety Managers and Engineers
- Maintenance Technicians
- Facility Managers
- Environmental Health and Safety EHS Professionals
- Industrial Engineers
- Anyone responsible for the safety and compliance of gas detection systems in their organization

Outlines

Day 1: Introduction to Gas Detection Systems

- Overview of Gas Detection Systems
- Importance of Gas Detection in Industrial Settings
- Types of Gases and Hazards
- Gas Detection Technologies
- Fixed vs. Portable Gas Detectors
- Introduction to Industry Standards e.g., OSHA, NFPA

Day 2: Designing Gas Detection Systems

- Factors to Consider in System Design

- Determining Detection Locations and Coverage
- Selecting Appropriate Detectors and Sensors
- Integrating Gas Detection with Other Safety Systems
- Design Case Studies
- Group Design Exercise

Day 3: Installation and Configuration

- Best Practices for Installing Gas Detectors
- Electrical and Mechanical Installation Considerations
- Calibration and Configuration of Detectors
- Hands-On Installation Workshop
- Troubleshooting Common Installation Issues
- Ensuring Proper Functionality

Day 4: Compliance and Standards

- Overview of Relevant Standards and Regulations
- Compliance Requirements for Different Industries
- Documentation and Record Keeping
- Auditing and Inspection Procedures
- Addressing Non-Compliance Issues
- Compliance Case Studies

Day 5: Maintenance and Troubleshooting

- Regular Maintenance Practices
- Common Issues and Their Solutions
- Upgrading and Expanding Systems
- Practical Maintenance Exercises
- Final Assessment

- Review and Q&A

Registration form on the Training Course: Gas Detection Systems: Design, Installation, and Compliance

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

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Payment Method

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