



*Training Course:
Industrial Safety for Technical Experts*

*30 June - 4 July 2025
Kuala Lumpur (Malaysia)
Royale Chulan Kuala Lumpur*

Training Course: Industrial Safety for Technical Experts

Training Course code: HE235859 From: 30 June - 4 July 2025 Venue: Kuala Lumpur (Malaysia) - Royale Chulan Kuala Lumpur Training Course Fees: 6000 € Euro

Introduction

This specialized training program, designed by Global Horizon Training Center, is aimed at equipping technical experts with the advanced knowledge and practical skills necessary to maintain and improve industrial safety in high-risk environments. The program focuses on understanding complex industrial safety protocols, risk management, emergency response, and accident prevention, with an emphasis on technical and engineering applications. It is designed to help professionals enhance their safety practices, identify potential hazards, and ensure safe operations across industrial settings, ranging from manufacturing plants to energy and chemical processing facilities.

Objectives

By the end of this program, participants will:

1. Gain an in-depth understanding of industrial safety principles and standards.
2. Learn how to identify, assess, and mitigate industrial safety risks effectively.
3. Understand the importance of industrial safety systems and their application in day-to-day operations.
4. Master the skills to implement safety protocols and standards to ensure a safe working environment.
5. Develop emergency response strategies and know how to handle industrial safety incidents.
6. Learn how to conduct industrial safety audits, inspections, and continuous improvement processes.
7. Stay updated on industry-specific safety regulations and safety management systems SMS.

Course Methodology

The course will use a variety of engaging teaching methods to ensure participants gain both theoretical knowledge and practical experience:

- Lectures and Presentations: To introduce core industrial safety concepts, regulations, and technologies.
- Case Studies and Real-World Examples: To provide insights into how safety protocols are applied in actual industrial settings.

- Group Discussions: To foster collaborative problem-solving and knowledge-sharing.
- Simulated Safety Drills: Practical exercises to test participants' ability to respond to emergency scenarios.
- Safety Audits and Inspections: Participants will conduct mock safety audits to apply what they have learned.
- Site Visits if applicable: A visit to an industrial facility to observe real-life safety practices in action.

Organizational Impact

Implementing this training program will bring the following benefits to organizations:

- Enhanced Safety Culture: Fosters a proactive safety mindset among employees, leading to fewer accidents and incidents.
- Regulatory Compliance: Ensures adherence to industry standards and safety regulations, reducing the risk of non-compliance penalties.
- Operational Efficiency: By preventing accidents, there is less downtime, ensuring continuous productivity.
- Cost Savings: Reduced workplace injuries, claims, and insurance costs due to improved safety practices.
- Improved Emergency Response: Organizations will have staff capable of handling safety emergencies efficiently, minimizing damage and disruption.
- Sustainability: Encourages organizations to adopt long-term safety management strategies that ensure the safety and well-being of employees and the environment.

Target Audience

This program is designed for:

- Safety Engineers and Officers responsible for overseeing industrial safety systems.
- Technical Experts working in high-risk industrial environments such as manufacturing, oil and gas, and chemical industries.
- Plant Managers and Supervisors involved in safety management and ensuring safe operational practices.
- Project Managers overseeing the design and implementation of safety systems.
- Maintenance Managers who are in charge of maintaining safe equipment and machinery.
- Risk Managers and Compliance Officers focused on ensuring regulatory adherence and risk mitigation.

Course Outline

Day 1: Introduction to Industrial Safety and Risk Management

- Overview of industrial safety: Importance and principles
- Key safety regulations and standards OSHA, ISO 45001, NFPA
- Identifying industrial hazards: Physical, chemical, electrical, and mechanical risks
- Risk assessment tools and techniques: Hazard Identification HAZID, Failure Modes and Effects Analysis FMEA
- Creating a safety culture: Roles and responsibilities of safety professionals and employees

Day 2: Safety Systems and Safety Management Systems SMS

- Overview of safety management systems SMS and their components
- Implementing safety protocols: Lockout/Tagout LOTO, equipment safety features, emergency shutdown systems
- Managing hazardous materials: Chemical safety, spill containment, and disposal protocols
- Preventive maintenance strategies for safety-critical equipment
- Safety interlocks and alarms: Functionality and importance in industrial operations

Day 3: Safety Protocols for Industrial Equipment and Machinery

- Machine safety standards: Safeguarding equipment and ensuring operator safety
- Pressure vessel, boiler, and crane safety protocols
- Electrical safety and grounding systems
- Monitoring systems for detecting hazards in real-time
- Fail-safes and redundancy in safety-critical systems
- Safety protocols for handling and storing dangerous chemicals and gases

Day 4: Emergency Response, Incident Management, and Root Cause Analysis

- Developing and implementing emergency response plans and procedures
- Incident command systems and decision-making during safety crises

- Responding to fires, explosions, gas leaks, and chemical spills
- Root Cause Analysis RCA for industrial accidents: Identifying underlying factors
- Post-incident investigation and reporting: Corrective actions and safety improvements
- Communication protocols during emergencies and incidents

Day 5: Auditing, Continuous Improvement, and Safety Leadership

- Conducting industrial safety audits and inspections
- Continuous improvement in safety: Key performance indicators KPIs and safety metrics
- Developing and conducting safety training programs for employees
- Leadership in safety: Building a strong safety culture from the top down
- Industry trends and emerging safety technologies
- Best practices in implementing a sustainable safety program

Registration form on the Training Course: Industrial Safety for Technical Experts

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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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