



*Training Course:  
Technical Safety Management Systems*

*15 - 19 September 2025  
Kuala Lumpur (Malaysia)  
Royale Chulan Kuala Lumpur*

# Training Course: Technical Safety Management Systems

Training Course code: HE235860 From: 15 - 19 September 2025 Venue: Kuala Lumpur (Malaysia) - Royale Chulan Kuala Lumpur Training Course Fees: 6000 € Euro

## Introduction

This comprehensive training program, designed by Global Horizon Training Center, focuses on Technical Safety Management Systems TSMS, which are essential for ensuring safety in high-risk environments such as manufacturing, chemical plants, and energy sectors. The program provides participants with the knowledge and practical skills to design, implement, and manage robust safety management systems that meet industry standards and ensure the safety of personnel, equipment, and the environment. Through this program, participants will learn the key elements of a TSMS, from risk assessment to incident investigation, and how to effectively manage safety protocols within technical environments.

## Objectives

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

1. Understand the principles and components of a Technical Safety Management System TSMS.
2. Learn how to design and implement effective safety management systems in technical environments.
3. Develop risk management strategies to identify, assess, and mitigate safety hazards.
4. Ensure compliance with industry regulations and safety standards.
5. Enhance emergency response capabilities and incident management within technical environments.
6. Perform safety audits and continuous improvement initiatives for safety systems.
7. Lead the implementation of safety management processes to promote a strong safety culture within the organization.

## Course Methodology

This training program will utilize a variety of instructional methods to ensure an engaging and practical learning experience:

- Interactive Lectures and Presentations: To introduce the foundational concepts and best practices in TSMS.
- Case Studies and Real-World Scenarios: To analyze how TSMS are applied and what lessons can be learned from past incidents.

- Workshops and Group Activities: Practical exercises to apply TSMS concepts in real-world situations.
- Safety Audits and Risk Assessments: Participants will learn how to conduct audits and risk assessments as part of their TSMS responsibilities.
- Simulated Emergency Response Drills: Hands-on practice in managing emergency scenarios.
- Industry Best Practices: Examining industry standards and guidelines for developing a TSMS.

## Organizational Impact

Implementing this training program will have several organizational benefits:

- Improved Safety Performance: Reducing the number of incidents, accidents, and operational disruptions by implementing an effective TSMS.
- Enhanced Risk Management: Proactive identification and mitigation of safety risks, reducing long-term operational costs.
- Regulatory Compliance: Ensuring the organization meets all necessary safety regulations and industry standards.
- Operational Efficiency: Streamlined processes for managing safety, reducing downtime, and increasing productivity.
- Stronger Safety Culture: Establishing a culture of safety throughout the organization by involving all levels of staff in safety management.
- Continuous Improvement: Enhancing safety protocols over time to keep up with emerging risks and technologies.

## Target Audience

This program is designed for:

- Safety Managers and Safety Officers responsible for ensuring safe operations in high-risk environments.
- Technical Engineers and Operations Managers involved in the daily operations of industrial or technical facilities.
- Risk Management Professionals who oversee safety risk assessments and management.
- Compliance and Regulatory Officers ensuring safety compliance with industry standards and regulations.
- Plant Managers and Maintenance Supervisors tasked with implementing and maintaining safety systems.

- Health, Safety, and Environmental HSE Officers working in technical environments.
- Project Managers involved in safety planning and risk management in technical projects.

## Course Outline

### Day 1: Introduction to Technical Safety Management Systems

- Overview of TSMS and its components: Policies, Procedures, and Documentation
- Regulatory frameworks and standards for TSMS OSHA, ISO 45001, etc.
- Role of leadership in safety management and creating a safety culture
- Integrating safety management into organizational strategy
- Safety risk management: Identification, assessment, and control

### Day 2: Risk Assessment and Hazard Identification

- Methods for hazard identification: HAZOP, FMEA, and JSA
- Risk assessment techniques: Qualitative and Quantitative Risk Analysis QRA
- Analyzing the impact of technical hazards on human, environmental, and asset safety
- Designing risk mitigation strategies and control measures
- Implementing and monitoring risk control systems

### Day 3: Safety Management System Design and Implementation

- Designing a Safety Management System SMS tailored to technical environments
- Key components of an effective TSMS: Safety policies, training, and reporting systems
- Creating safety protocols for operational procedures and technical systems
- Safety communication and reporting structures within an organization
- Involving stakeholders in the implementation process employees, contractors, and management

### Day 4: Emergency Response and Incident Management

- Developing and implementing emergency response plans and procedures

- Incident investigation techniques: Root Cause Analysis RCA and Fault Tree Analysis FTA
- Managing crisis situations: Incident command and decision-making during emergencies
- Post-incident reporting, analysis, and corrective actions
- Best practices for managing high-risk technical incidents: Fires, spills, explosions, electrical faults

#### Day 5: Auditing, Continuous Improvement, and Safety Leadership

- Conducting safety audits and inspections: Tools, techniques, and best practices
- Measuring the effectiveness of safety management systems: Key performance indicators KPIs
- Continuous improvement strategies: Updating safety protocols and procedures
- Safety leadership: Building and maintaining a safety-first culture within the organization
- Case studies of successful TSMS implementation in various industries
- Final assessment and feedback: Ensuring practical application of learned concepts

## Registration form on the Training Course: Technical Safety Management Systems

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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

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