



*Training Course:  
Process Safety Management Fundamentals*

*22 - 26 June 2026  
London (UK)*

## Training Course: Process Safety Management Fundamentals

Training Course code: EN236514 From: 22 - 26 June 2026 Venue: London (UK) - Training Course Fees: 6825 € Euro

### Introduction

Process Safety Management PSM is a critical discipline within the chemical and industrial sectors aimed at preventing catastrophic incidents related to hazardous materials, operational failures, and process deviations. In high-risk environments such as chemical manufacturing plants, effective PSM systems are essential to ensure operational integrity, personnel safety, environmental protection, and business continuity.

This specialized training program, designed by Global Horizon Training Center, provides participants with a comprehensive understanding of Process Safety Management principles, regulatory requirements, risk assessment methodologies, and operational best practices within chemical processing environments.

The program focuses on strengthening participants' capabilities in identifying process hazards, implementing preventive and mitigation measures, improving safety culture, and ensuring compliance with internationally recognized PSM standards such as OSHA 29 CFR 1910.119, CCPS guidelines, and industry best practices. Through technical discussions, case studies, and professional knowledge-sharing sessions, participants will gain the knowledge required to support safe and reliable plant operations.

### Course Objectives

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

- Understand the principles and framework of Process Safety Management PSM
- Identify process hazards associated with chemical manufacturing operations
- Understand OSHA PSM elements and CCPS risk-based process safety concepts
- Apply hazard identification and risk assessment techniques effectively
- Recognize the importance of process safety culture and leadership commitment
- Improve incident prevention and operational discipline within process facilities
- Analyze process safety incidents and identify root causes
- Enhance emergency preparedness and response strategies
- Understand management of change MOC procedures and safe operational practices
- Support continuous improvement in process safety performance and compliance

### Course Methodology

This training program utilizes a professional and interactive learning approach designed to enhance technical knowledge and managerial understanding through:

- Instructor-led presentations and technical discussions

- Real-life chemical industry case studies
- Interactive group discussions
- Process safety incident reviews
- Knowledge-sharing sessions
- Scenario analysis and professional dialogue
- Industry best practice reviews
- Guided learning and structured lectures

## Organizational Impact

Upon successful completion of this program, organizations can expect to achieve:

- Enhanced process safety awareness across engineering and management teams
- Improved compliance with international PSM standards and regulations
- Reduction in operational risks and process-related incidents
- Stronger safety culture and leadership engagement
- Improved operational reliability and asset integrity
- Better management of process changes and operational hazards
- Enhanced emergency response preparedness
- Improved incident investigation and corrective action implementation
- Increased employee accountability toward process safety excellence

## Target Audience

This program is designed for:

- Process Engineers
- Chemical Engineers
- Production Managers
- Operations Managers
- Plant Managers
- Maintenance Engineers
- HSE Professionals
- Reliability Engineers
- Technical Supervisors
- Process Operators
- Engineering Team Leaders
- Risk and Compliance Professionals
- Asset Integrity Personnel
- Safety Coordinators

## Outline

## Day 1: Fundamentals of Process Safety Management

### Introduction to Process Safety

- Difference between occupational safety and process safety
- Importance of process safety in chemical industries
- Major industrial accidents and lessons learned
- Process safety lifecycle overview

### Overview of Process Safety Management Standards

- OSHA 29 CFR 1910.119 overview
- CCPS Risk-Based Process Safety framework
- Regulatory and compliance requirements
- Corporate process safety responsibilities

### Process Hazard Identification

- Types of process hazards in chemical plants
- Hazardous chemicals and process conditions
- Chemical reactivity and toxicity hazards
- Introduction to hazard analysis methodologies

### Process Safety Culture and Leadership

- Building a positive safety culture
- Leadership roles in process safety
- Human factors and operational discipline
- Employee participation in PSM

### Incident Reviews and Lessons Learned

- Review of major chemical industry incidents
- Lessons learned from process failures
- Process safety performance improvement concepts

## Day 2: Risk Assessment and Operational Controls

### Process Hazard Analysis PHA

- Introduction to PHA methodologies
- HAZOP fundamentals
- What-If analysis
- Failure Modes and Effects Analysis FMEA
- Layer of Protection Analysis LOPA

## Risk Assessment Techniques

- Risk matrix and risk ranking methods
- Identifying consequence and likelihood
- Evaluating safeguards and barriers
- Risk reduction strategies

## Operating Procedures and Safe Work Practices

- Development of operating procedures
- Permit-to-work systems
- Lockout/Tagout LOTO
- Confined space entry procedures
- Contractor safety management

## Mechanical Integrity and Asset Reliability

- Mechanical integrity principles
- Inspection and testing requirements
- Preventive and predictive maintenance
- Critical equipment reliability management

## Operational Excellence in Process Safety

- Safe operating limits
- Alarm management concepts
- Operational discipline principles
- Documentation and compliance monitoring

## Day 3: Incident Prevention, Emergency Response, and Continuous Improvement

### Incident Investigation and Root Cause Analysis

- Incident reporting requirements
- Root cause analysis methodologies
- Human error analysis
- Corrective and preventive actions CAPA

### Management of Change MOC

- Importance of MOC in process industries
- Technical, procedural, and organizational changes
- MOC workflow and documentation
- Risk evaluation during process modifications

### Emergency Preparedness and Response

- Emergency response planning

- Fire and explosion scenarios
- Toxic release response strategies
- Crisis communication and coordination

## Performance Monitoring and Continuous Improvement

- Process safety performance indicators KPIs
- Auditing and compliance reviews
- Process safety metrics and reporting
- Continuous improvement strategies

## Program Summary and Professional Discussions

- Key process safety takeaways
- Common challenges in process industries
- Leadership responsibilities in sustaining PSM
- Future trends in process safety management.

## Registration form on the Training Course: Process Safety Management Fundamentals

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€ Euro

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: .....  
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### 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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