XCELERATE TRAINING INSTITUTE

your learning & development partner

HEALTH, SAFETY AND ENVIRONMENT (HSE)

Process Safety Management (PSM) Training Course

DURATION	LANGUAGE	FORMAT
5 days	**English**	**Classroom / Online**

Upcoming dates

Dates	Venue	Format	Fee
4 – 8 Jan 2027	Cairo	Classroom	**€4,800**
28 Jun – 2 Jul 2027	Live online	Online (live)	**€1,200**
6 – 10 Dec 2027	Live online	Online (live)	**€1,200**

Register or ask a question

Online: staging.x8ti.com/course/process-safety-management-psm-training-cours…

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Process Safety Management (PSM) Training Course

Introduction

Introduction

Why is PSM needed? Process Safety Management (PSM) is crucial in the prevention of hazards related to harmful processes and procedures. Through effective management of these processes, organizations can prevent serious injuries and damages caused by faulty processes, procedures, or equipment.

This training program aims to provide its participants with comprehensive knowledge on the topics of process safety, including the history behind it, and the current events and case studies on this domain. It also looks at compliance with international standards and allows your company to take proactive measures to ensure conformity with these guidelines. Participants will also learn how to use several commonly known process safety management tools within their respective organizations.

What areas of organizational safety does the “Process Safety Management (PSM) Certification Training Course” discuss and provide training on? This course will focus on the establishment of process management systems, asset management and maintenance strategies, safe start-up, and shutdown of process plants, performance standards for safety-critical systems and equipment, hazards controls, and the purpose and features of emergency plans.

This Xcelerate Training Institute course will empower you with knowledge in process safety leadership, management of process risk, process hazard safety control, and fire protection and emergency response activities.

Learning Objectives

- Understand how a PSM system can help your organization manage its process safety risks
- Discover how an effective PSM program can identify, evaluate, prevent, or mitigate chemical hazards caused by process inadequacies
- Learn how to identify process safety and major accident hazards in your organizations and plants, and how to assess the risks involved and define critical controls to prevent hazards
- Become aware of the conceptions of static and dynamic barrier management
- Learn how barrier management can be used to analyses process safety and perform
- Obtain hands-on experience with PSM tools by drawing bootie diagrams, etc.
- Learn the attributes of different types of barriers: hardware (plant), human (people), and organizational (process)

Training Methodology

This collaborative Process Safety Management (PSM) Certification Training Course will comprise the following training methods:

- Lectures
- Seminars & Presentations

- Group Discussions
- Assignments
- Case Studies & Functional Exercises

Benefits For Your Organization

- Benefit from training your employees on the definition and importance of safety information, along with the different roles played in the Process Safety Management (PSM) guidelines
- Document your Process Safety Management (PSM) information systematically and efficiently
- Improve productivity by teaching your staff about the Process Safety Management (PSM) work process and how it fits into the overall organizational work processes
- Achieve improved Process Safety Management (PSM), higher employee morale, increased productivity, and reduced costs of damage control
- Assess your Process Safety Management (PSM) Certification Training Course rating by evaluating its effectiveness to reduce injuries and illnesses and identifying and eliminating workplace hazards

Benefits For You

- Improve your performance through higher efficiency and greater worker productivity by being aware of Process Safety Management (PSM) related risks
- Engage in conversations about Process Safety Management (PSM), leading to improved occupational safety and better overall communication
- Evade injuries by following fixed safety parameters and best practices
- Learn how to perform a Process Safety Management (PSM) study from experienced professionals: collecting information, selecting the team, leading a meeting, and documenting the results
- Focus on human factors issues to analyses Process Safety Management (PSM) procedures in areas such as start-up, shutdown, and maintenance
- Get an opportunity to work through hands-on exercises in detail to gain the skills needed to facilitate a Process Safety Management (PSM) study
- Gain the skills to plan, manage, facilitate, and scribe for a Process Safety Management (PSM) study

Target Audience

- PSM workforce
- Senior engineers (e.g., reliability, inspection, operations, etc.).
- PSM managers
- PSM supervisors
- Plant or unit managers/team leads
- Heads of sections or operations, maintenance, and inspection, engineering, etc. departments
- Anyone responsible for communicating process safety information to workers

Course Outline

INTRODUCTION & HISTORY

- History of Process Safety
- OSHA 14 Regulatory Requirements
- CCPS 20 Elements

- PHAs-Process Hazards Analysis
- Management of Change

PROCESS SAFETY LEADERSHIP

- Process Safety Management Meaning
- Process Safety Leadership
- Organizational Learning
- Management of Change
- Worker Engagement
- Competence

INVESTIGATION AND LAYER OF PROTECTION ANALYSIS (LOPA)

- Mechanical Integrity and Reliability
- Incident investigation
- Overview of LOPA
- LOPA Scenarios
- LOPA for Potential Toxic Gas Exposure – Case Analysis
- Datasheet: HAZOP and LOPA leadership
- Risk Estimation and Management
- Datasheet: Auditing of Layers of Protection

COMMIT TO PROCESS SAFETY

- Process Safety Culture
- Compliance with Standards
- Process Safety Competency
- Workforce Involvement
- Stakeholder Outreach

UNDERSTAND HAZARDS AND RISK

- Process Knowledge Management
- Hazard Identification and Risk Analysis
- Biological Hazards
- Chemical Hazards
- Physical Hazards
- Safety Hazards
- Ergonomic Hazards
- Psycho social Hazards

MANAGE RISKS

- Operating Procedures
- Safe Work Practices
- Asset Integrity and Reliability
- Training and Performance Assurance

- Management of Change
- Operational Readiness
- Conduct of Operations
- Emergency Management

MANAGEMENT OF PROCESS RISKS

- Establishing A Process Safety Management System
- Risk Management Techniques Applicable in Process Industries
- Assent Management and Maintenance Strategies
- Role and Purpose of a Permit System
- Safe Shift Handover
- Contractor Management

LESSONS TO LEARN FROM INCIDENTS

- Incident Investigation
- Measurement and Metrics
- The Importance of Auditing
- Management Review and Continuous Improvement

PROCESS SAFETY HAZARD CONTROL

- Operating Procedures
- Safe Start-up and Shutdown
- Safety-Critical Performance Standards
- Utilities
- Electricity / Static Electricity
- Dangerous Substance
- Reaction Hazards
- Bulk Storage Operations

FIRE HAZARDS AND EXPLOSION PROTECTION

- Fire Hazards
- Fire and Explosion Control
- Dust Explosions
- Emergency Preparedness
- Emergency Numbers

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Registration Form

Process Safety Management (PSM) Training Course

Preferred dates: ..... Venue or online: .....

Duration: 5 days Language: .....

Please complete and email this form to us, or register online. We confirm your place and send the invoice within one working day.

Delegate information

Full name (Mr / Ms / Dr / Eng): .....

Position: ..... Telephone / mobile: .....

Official email: ..... Personal email: .....

Company information

Company name: .....

Address: .....

City / country: ..... VAT / tax number: .....

Person responsible for training & development

Full name (Mr / Ms / Dr / Eng): .....

Position: ..... Telephone / mobile: .....

Email: .....

Payment

☐ Please invoice me ☐ Please invoice my company

Signature: ..... Date: .....

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