MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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PROCESS SAFETY MANAGEMENT AND PROCESS PLANT INSPECTION

""Ensuring Safety, Integrity, and Compliance in Process Industries""

Schedule

Date	Venue	Fees (Face-to-Face)
16 – 20 Mar 2026	London, UK	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Process safety is essential to preventing incidents in industries that involve hazardous processes. With growing safety regulations and increasing pressure to maintain safe operations, organizations must have the right tools, knowledge, and procedures to manage risks effectively. This 5-day training focuses on process safety management (PSM) and process plant inspection, providing participants with the skills needed to assess and improve process safety measures in various industries.

The course covers a wide range of topics, including risk assessment, hazard analysis, safety integrity levels, and plant inspections. Participants will learn to conduct comprehensive safety audits, assess compliance with safety regulations, and improve plant safety through effective management systems and inspections.

Objectives

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

- Understand the key concepts and principles of process safety management (PSM).
- Perform effective risk assessments and hazard analysis for process plants.
- Apply safety integrity level (SIL) assessments and select appropriate risk control measures.
- Conduct thorough process plant inspections to ensure safety compliance.
- Develop and implement process safety programs to mitigate risks in hazardous environments.

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Why Attend

- Gain a solid understanding of process safety management and its impact on operations.
- Learn practical techniques for identifying and mitigating risks in process plants.
- Improve your ability to conduct safety inspections and audits.
- Enhance your career by acquiring valuable expertise in process safety management.
- Ensure compliance with global safety standards, reducing the risk of incidents and improving safety culture.

Target Audience

This program is designed for:

- Process safety professionals and engineers
- Plant managers and operations supervisors
- HSE (Health, Safety, and Environmental) professionals
- Risk management and compliance officers
- Maintenance and inspection teams involved in process plant operations

Individual Benefits

Key competencies that will be developed include:

- Advanced understanding of process safety management principles and standards.
- Risk assessment and hazard analysis techniques specific to process industries.
- Safety auditing and inspection skills for improving plant safety.
- The ability to apply safety integrity levels (SIL) and other safety measures.
- The competence to lead or support process safety initiatives in any sector.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- A thorough understanding of process safety regulations and risk mitigation strategies.
- Enhanced ability to identify hazards and implement risk control measures in process plants.
- Improved process plant safety, reducing incidents and increasing compliance.
- Strengthened safety culture and operational resilience in the organization.
- Ability to ensure regulatory compliance and align safety practices with global standards.

Instructional Methodology

This course uses a mix of theoretical learning and practical applications:

- Lectures and presentations to explain core concepts of process safety management.
- Case studies to illustrate real-world challenges and solutions in process safety.
- Interactive workshops where participants apply knowledge in hazard analysis and risk assessments.
- Group discussions to share best practices and practical solutions for safety management.
- Simulations of process plant inspections to develop hands-on experience in safety audits.

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Course Outline

Training Hours: 07:30 AM – 03:30 PM Daily Format: 3–4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Break: 01:00 – 02:00

Day 1: Introduction to Process Safety and Risk Management

- Module 1: Process Safety Management Overview (07:30 – 09:30)
- Key elements of process safety management systems.
- Overview of international safety standards and regulations.
- Understanding the role of PSM in preventing accidents and incidents.
- Module 2: Risk Assessment and Hazard Analysis (09:45 – 11:15)
- Conducting hazard and operability studies (HAZOP).
- Identifying and evaluating hazards in process plants.
- Developing risk management strategies.
- Module 3: Workshop – Risk Assessment Exercise (11:30 – 01:00)
- Hands-on practice in conducting a risk assessment for a sample process plant.

Day 2: Safety Integrity Levels and Control Measures

- Module 4: Safety Integrity Levels (SIL) Assessment (07:30 – 09:30)
- Understanding SIL and its application in process safety.
- Determining appropriate safety integrity levels for specific processes.
- Assessing and selecting risk control measures.
- Module 5: Process Control and Safety Systems (09:45 – 11:15)
- Review of process control systems and their role in maintaining safety.
- Using control systems to monitor and mitigate safety risks.
- Best practices for integrating safety systems into operations.
- Module 6: Workshop – SIL Assessment and Risk Control (11:30 – 01:00)
- Interactive session on applying SIL assessments and selecting risk control measures.

Day 3: Plant Inspection Techniques

- Module 7: Process Plant Inspections and Audits (07:30 – 09:30)
- The importance of regular plant inspections for safety compliance.
- Key areas to inspect in process plants.
- Techniques for performing effective plant safety audits.
- Module 8: Equipment Integrity and Maintenance (09:45 – 11:15)
- Ensuring the integrity of equipment and machinery.
- Identifying potential failure points and hazards.
- Maintaining critical safety equipment.
- Module 9: Workshop – Conducting a Process Plant Inspection (11:30 – 01:00)
- Participants conduct a simulated inspection of a process plant, identifying potential safety issues.

Day 4: Incident Investigation and Safety Auditing

- Module 10: Incident Investigation Techniques (07:30 – 09:30)
- Investigating process safety incidents and near misses.
- Root cause analysis methods and tools.
- Developing corrective actions and preventive measures.
- Module 11: Safety Auditing and Compliance (09:45 – 11:15)
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Conducting safety audits in process industries.

- Ensuring compliance with regulatory requirements.
- Reporting audit findings and recommending improvements.
- Module 12: Workshop – Incident Investigation and Safety Audit (11:30 – 01:00)
- Simulating an incident investigation and performing a safety audit.

Day 5: Process Safety Program Development and Reporting

- Module 13: Developing Process Safety Management Programs (07:30 – 09:30)
- Designing and implementing process safety management programs.
- Aligning safety programs with organizational goals and safety culture.
- Continuous improvement strategies in process safety.
- Module 14: Reporting and Communicating Safety Findings (09:45 – 11:15)
- Writing clear, actionable safety reports.
- Communicating audit and inspection findings to management and stakeholders.
- Presenting safety improvement recommendations effectively.
- Module 15: Final Workshop – Process Safety Program Presentation (11:30 – 01:00)
- Participants present a process safety program and action plan.

Certification

Upon successful completion of this course, participants will receive a Certificate of Completion in Process Safety Management and Process Plant Inspection, demonstrating their expertise in ensuring safety and compliance in process plant operations.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**

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