

RISK & COMPLIANCE BASED ON PROCESS SAFETY MANAGEMENT

"Building a proactive safety culture through effective process risk management and regulatory compliance."

Schedule

Date	Venue	Fees (Face-to-Face)
21 - 25 Jun 2026	Manama, Bahrain	USD 3495 per delegate
08 - 12 Jun 2026	London, UK	USD 3495 per delegate
26 - 30 Jul 2026	Doha, Qatar	USD 3495 per delegate
20 - 24 Jul 2026	London, UK	USD 3495 per delegate

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

Introduction

Process Safety Management (PSM) is a disciplined framework for managing the integrity of operating systems and processes that handle hazardous substances. Failure to implement an effective PSM system can lead to catastrophic incidents, regulatory penalties, and reputational damage.

This 5-day intensive training provides participants with practical tools and methods to identify, assess, and manage operational risks while ensuring regulatory compliance. The course is based on international standards including OSHA's PSM (29 CFR 1910.119) and CCPS guidelines, offering a strategic understanding of risk, safety, and compliance for industrial operations.

Objectives

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

- Understand the core elements and principles of Process Safety Management
- Identify and control hazards related to chemical and industrial processes
- Apply risk assessment methodologies such as HAZOP and LOPA
- Ensure compliance with international process safety regulations
- Design and evaluate effective safety management systems
- Integrate PSM with operational and corporate risk strategies

Why Attend

- Gain in-depth knowledge of risk-based PSM frameworks
- Learn from real-life incidents and their root cause analysis
- Improve safety culture and minimize high-consequence risks
- Ensure compliance with regulatory and industry requirements
- Enhance your organization's resilience and operational integrity

Target Audience

This program is designed for:

- Process safety managers and engineers
- Health, Safety & Environment (HSE) professionals
- Compliance and risk officers
- Operations and maintenance managers
- Facility and plant managers
- Auditors and safety consultants in high-risk industries

Individual Benefits

Key competencies that will be developed include:

- Hazard identification and risk analysis (HIRA)
- PSM program development and implementation
- Regulatory compliance and auditing
- Safety system design and performance evaluation
- Incident investigation and corrective action planning

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved operational safety and compliance performance
- Reduced incidents, downtime, and associated costs
- Enhanced risk communication and leadership accountability
- Better alignment with global safety regulations and standards
- Strengthened organizational safety culture

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Process safety management frameworks and compliance models
- Case Studies – Major industrial accidents and lessons learned
- Workshops – Risk assessment tools such as HAZOP and bowtie analysis
- Peer Exchange – Discussion of safety incidents, culture, and leadership
- Tools – Templates for compliance audits, risk registers, and PSM KPIs

MAWA EVENTS

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Course Outline

Detailed 5-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Foundations of Process Safety and Risk

- Module 1: Introduction to PSM and Global Standards (07:30 – 09:30)
 - OSHA PSM, CCPS, API RP 754
 - Importance of managing process hazards
- Module 2: Elements of a Robust PSM System
 - Overview of 14 OSHA PSM elements
 - Lifecycle approach to safety
- Module 3: Process Hazard Identification
 - Process flow diagrams and hazard studies
 - Hazard identification techniques (e.g., What-if, HAZID)

Day 2: Risk Assessment and Control Tools

- Module 1: Hazard and Operability Study (HAZOP)
 - Conducting effective HAZOP workshops
 - Team composition and documentation
- Module 2: Layers of Protection Analysis (LOPA)
 - Independent protection layers (IPL)
 - Initiating events, consequence severity, and safeguards
- Module 3: Quantitative Risk Assessment (QRA)
 - Risk matrices, frequency analysis
 - Application in safety design

Day 3: Compliance, Audits, and Safety Systems

- Module 1: PSM Compliance Auditing
 - Audit checklists and compliance tracking
 - Managing findings and corrective actions
- Module 2: Safety Instrumented Systems (SIS)
 - IEC 61511 basics and Safety Integrity Levels (SIL)
 - SIS lifecycle and functional testing
- Module 3: Change and Documentation Control
 - Management of Change (MOC)
 - Safety-critical documentation and records

Day 4: Human Factors and Incident Response

- Module 1: Safety Culture and Human Reliability
 - Human error models and mitigation strategies
 - Behavior-based safety (BBS) integration
- Module 2: Emergency Preparedness and Response
 - Developing response plans and drills
 - Interface with emergency services
- Module 3: Incident Investigation
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Root cause analysis (RCA), 5 Whys, and fishbone techniques

- Learning from incidents to prevent recurrence

Day 5: Integration, KPI Monitoring & Strategy

- Module 1: PSM Performance Indicators
- Leading vs. lagging indicators
- Safety dashboards and monitoring systems
- Module 2: Integrating PSM with Enterprise Risk
- Linking PSM with ERM, ESG, and operational excellence
- Governance and accountability models
- Module 3: Final Workshop and Action Planning
- Simulation: Develop a PSM action plan for a sample facility
- Personal roadmap for applying course knowledge

Certification

Participants will receive a Certificate of Completion in Risk & Compliance Based on Process Safety Management, confirming their expertise in managing operational risk, regulatory compliance, and implementing effective PSM strategies in industrial settings.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
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