

PIPELINE SAFETY MANAGEMENT

"Ensuring Operational Integrity and Risk Reduction Across Pipeline Systems"

Schedule

Date	Venue	Fees (Face-to-Face)
07 - 11 Jun 2026	Manama, Bahrain	USD 3,495 per delegate
20 - 24 Jul 2026	London, UK	USD 3,495 per delegate
14 - 18 Sep 2026	Dubai, UAE	USD 3,495 per delegate
25 - 29 Oct 2026	Doha, Qatar	USD 3,495 per delegate

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

Introduction

Pipeline systems are a critical component of modern energy infrastructure, but they also present complex safety, regulatory, and operational challenges. This comprehensive Pipeline Safety Management course equips participants with the knowledge and skills to develop, implement, and monitor safety management systems (SMS) specific to pipelines, in line with industry best practices and international standards.

Through in-depth discussions, case studies, and interactive workshops, delegates will explore hazard identification, risk mitigation, incident investigation, and the development of effective safety programs tailored to pipeline operations. This training is essential for professionals seeking to improve pipeline integrity, reduce risk, and align with frameworks such as API RP 1173.

Objectives

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

- Understand the key components of Pipeline Safety Management Systems (PSMS).
- Apply API RP 1173 and other international best practices in safety management.
- Identify and manage pipeline hazards and associated risks.
- Develop and implement effective safety and emergency response plans.
- Foster a strong safety culture and continuous improvement mindset.
- Analyze safety data and perform incident investigations.

Why Attend

- Gain a structured understanding of pipeline safety regulations and standards.
- Learn practical tools to reduce operational and environmental risks.
- Improve compliance with local and international safety frameworks.
- Strengthen your organization's ability to prevent incidents and enhance response.
- Collaborate with industry peers and safety experts on real-world challenges.

Target Audience

This program is designed for:

- Pipeline safety managers and HSE professionals.
- Maintenance and operations supervisors.
- Risk management and compliance officers.
- Project engineers and asset integrity personnel.
- Regulators and consultants in pipeline safety

Individual Benefits

Key competencies that will be developed include:

- Expertise in developing and auditing safety management systems.
- Enhanced ability to identify risks and implement mitigation strategies.
- Understanding of root cause analysis and incident investigation techniques.
- Capability to align pipeline operations with global safety standards.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Strengthened organizational safety culture and leadership.
- Reduced risk of pipeline-related incidents and costly disruptions.
- Enhanced compliance with legal and regulatory requirements.
- Improved stakeholder trust and public safety assurance.

Instructional Methodology

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

- Strategy Briefings – Deep dive into PSMS frameworks, pipeline safety principles, and risk management protocols.
- Case Studies – Real-world incidents and how effective safety management prevented or mitigated them.
- Workshops – Hands-on sessions developing risk assessments, emergency response plans, and SMS documentation.
- Peer Exchange – Group discussions to share challenges and best practices in pipeline safety.
- Tools – Templates and guides for audits, inspections, and safety planning.

MAWA EVENTS

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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: Introduction to Pipeline Safety Management Systems (PSMS)

- Module 1: Pipeline Industry Risks and Challenges (07:30 – 09:30)
 - Overview of pipeline types and safety-critical components.
 - Common hazards and failure modes.
 - Industry case studies on safety incidents.
- Module 2: Introduction to PSMS & API RP 1173 (09:45 – 11:15)
 - Structure and goals of API RP 1173.
 - PSMS elements and safety culture integration.
 - Regulatory context and global perspectives.
- Module 3: Leadership and Management Commitment (11:30 – 01:00)
 - The role of leadership in safety management.
 - Policy development and accountability structures.
 - Organizational responsibilities and communication.
- Module 4: Workshop – Gap Analysis of PSMS (02:00 – 03:30)
 - Assessing current safety management practices.
 - Identifying strengths and improvement areas.
 - Defining goals for SMS implementation.

Day 2: Risk Management and Operational Controls

- Module 1: Hazard Identification & Risk Assessment (07:30 – 09:30)
 - Techniques: HAZOP, FMEA, Job Safety Analysis.
 - Risk matrices and prioritization models.
 - Incorporating data into risk evaluations.
- Module 2: Integrity Management and Monitoring (09:45 – 11:15)
 - Pipeline integrity assessment methods.
 - Inspection and monitoring technologies.
 - Condition-based maintenance strategies.
- Module 3: Operational Control Measures (11:30 – 01:00)
 - Safe work procedures and permit systems.
 - Control of work, isolation, and lockout/tagout.
 - Emergency shutdown protocols.
- Module 4: Workshop – Developing a Risk Register (02:00 – 03:30)
 - Identifying key pipeline risks.
 - Documenting controls and residual risk.
 - Creating action plans for mitigation.

Day 3: Safety Assurance and Performance Evaluation

- Module 1: Performance Monitoring and Measurement (07:30 – 09:30)
 - Key safety performance indicators (KPIs).
 - Leading vs lagging indicators.
 - Data sources and trend analysis.
- Module 2: Audits, Inspections & Corrective Actions (09:45 – 11:15)
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Internal and external audit planning.

- Nonconformance reporting and follow-up.
- Continuous improvement cycles.
- **Module 3: Incident Reporting and Investigation (11:30 – 01:00)**
- Root cause analysis tools (e.g., 5-Why, Fault Tree).
- Reporting standards and documentation.
- Lessons learned and prevention strategies.
- **Module 4: Workshop – Simulated Incident Investigation (02:00 – 03:30)**
- Conducting an investigation in teams.
- Determining root causes and corrective actions.
- Presenting findings and preventive measures.
- **Day 4: Emergency Preparedness and Safety Culture**
- **Module 1: Emergency Preparedness and Response Planning (07:30 – 09:30)**
- Structure of emergency plans and response teams.
- Roles, responsibilities, and communication protocols.
- Drills and simulation exercises.
- **Module 2: Safety Culture and Workforce Engagement (09:45 – 11:15)**
- Assessing organizational culture and behaviors.
- Motivating safe behaviors and employee involvement.
- Leadership visibility and reinforcement.
- **Module 3: Crisis Management & Business Continuity (11:30 – 01:00)**
- Linkage between PSMS and continuity planning.
- Stakeholder communication during crises.
- Recovery planning and documentation.
- **Module 4: Workshop – Emergency Plan Development (02:00 – 03:30)**
- Building an emergency response plan.
- Defining escalation protocols.
- Integrating with local/regional responders.
- **Day 5: Implementation and Integration**
- **Module 1: Integration of PSMS with Other Systems (07:30 – 09:30)**
- PSMS and its alignment with ISO 45001, ISO 14001.
- Building a unified management system.
- Shared tools and documentation systems.
- **Module 2: Change Management and Communication (09:45 – 11:15)**
- Managing organizational and technical change.
- Communicating effectively across teams.
- Training and competence assurance.
- **Module 3: Implementation Roadmap (11:30 – 01:00)**
- Developing a phased PSMS implementation plan.
- Resource allocation and project governance.
- Defining success criteria and milestones.
- **Module 4: Final Review, Assessment, and Action Planning (02:00 – 03:30)**
- Course recap and open Q&A.
- Group presentations and implementation plans.

Final assessment and feedback.

Certification

Participants will receive a Certificate of Completion in Pipeline Safety Management, validating their understanding of pipeline-specific safety management systems, operational risk controls, and international compliance frameworks like API RP 1173.

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?
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