

PIPELINE INSPECTION, TESTING, INTEGRITY & MAINTENANCE

“Ensure the Safety and Longevity of Your Pipeline Systems”

Schedule

Date	Venue	Fees (Face-to-Face)
23 - 27 Aug 2026	Doha, Qatar	USD 3495 per delegate

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

Introduction

This 5-day intensive training program is designed to provide in-depth knowledge and practical skills in the inspection, testing, and maintenance of pipeline systems. With pipelines being essential for transporting oil, gas, and water, maintaining their integrity is crucial for preventing leaks, environmental damage, and costly shutdowns. This course covers the full pipeline lifecycle from installation to maintenance, focusing on critical inspection techniques, testing procedures, and reliability strategies.

Participants will gain hands-on experience in evaluating pipeline integrity, understanding the latest inspection technologies, and applying best practices for pipeline maintenance. The course includes case studies, real-world examples, and interactive workshops to equip attendees with the tools to enhance pipeline performance and safety in their respective industries.

Objectives

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

- Understand pipeline inspection, testing, and maintenance methods
- Learn how to assess pipeline integrity using advanced technologies
- Apply industry best practices to maintain pipeline systems efficiently
- Identify common pipeline failures and troubleshooting strategies
- Develop preventive maintenance plans to ensure long-term pipeline reliability

Why Attend

- Gain hands-on experience in the latest pipeline inspection and testing technologies
- Learn strategies for maintaining pipeline integrity and preventing costly failures
- Improve your ability to troubleshoot pipeline issues effectively
- Stay updated on industry best practices for pipeline safety and maintenance
- Enhance your expertise to ensure the safe operation of critical pipeline systems

Target Audience

This program is designed for:

- Pipeline engineers and maintenance managers
- Inspectors and testing professionals working in pipeline operations
- Operations managers responsible for pipeline safety and reliability
- Anyone involved in the management and maintenance of pipeline systems

Individual Benefits

Key competencies that will be developed include:

- Mastery of pipeline inspection and testing techniques
- Proficiency in using the latest technologies for pipeline integrity assessments
- Ability to identify and mitigate pipeline failures and risks
- Knowledge of best practices for pipeline system maintenance
- Enhanced troubleshooting skills for pipeline-related problems

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved pipeline safety and reduced risk of leaks and failures
- More efficient pipeline inspection and maintenance processes
- Enhanced ability to prevent unplanned downtime and operational disruptions
- Better compliance with industry standards and regulations
- Increased overall system reliability, reducing maintenance costs

Instructional Methodology

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

- Strategy Briefings - Overview of pipeline inspection, testing, and maintenance processes
- Case Studies - Real-world examples of pipeline failures and lessons learned
- Workshops - Hands-on exercises to practice inspection and maintenance techniques
- Peer Exchange - Group discussions on pipeline challenges and solutions
- Tools - Templates and checklists for inspection reports, maintenance schedules, and risk assessments

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 Inspection and Testing

- Module 1: Overview of Pipeline Systems and Their Importance (07:30 – 09:30)
 - Types of pipelines and their applications
 - Importance of pipeline integrity and safety
 - Key challenges faced in pipeline operations
- Module 2: Pipeline Inspection Techniques (09:45 – 11:15)
 - Visual and physical inspection methods
 - Advanced technologies in pipeline inspection
 - Common issues detected during inspections
- Module 3: Testing Procedures for Pipeline Integrity (11:30 – 01:00)
 - Methods of testing pipeline integrity (e.g., hydrostatic testing, ultrasonic testing)
 - Safety considerations during testing
 - Analyzing test results and identifying potential issues

Day 2: Pipeline Failure Modes and Preventive Measures

- Module 1: Common Causes of Pipeline Failures (07:30 – 09:30)
 - Corrosion and material degradation
 - Mechanical damage and third-party interference
 - Environmental factors affecting pipeline integrity
- Module 2: Preventive Maintenance and Risk Mitigation (09:45 – 11:15)
 - Developing a preventive maintenance plan for pipelines
 - Best practices for corrosion control and protection
 - Tools and techniques for managing pipeline risks
- Module 3: Troubleshooting and Failure Analysis (11:30 – 01:00)
 - Identifying and diagnosing pipeline failures
 - Root cause analysis for pipeline failures
 - Case studies of failed pipelines and lessons learned

Day 3: Advanced Pipeline Inspection Technologies

- Module 1: Advanced Inspection Tools and Technologies (07:30 – 09:30)
 - Introduction to advanced inspection technologies (e.g., smart pigs, drones, sensors)
 - Pros and cons of various inspection tools
 - Selecting the appropriate technology for specific inspection needs
- Module 2: Remote Monitoring and Automation (09:45 – 11:15)
 - Implementing remote monitoring systems for pipeline health
 - The role of automation in pipeline maintenance
 - Analyzing real-time data for predictive maintenance
- Module 3: Data Management and Reporting (11:30 – 01:00)
 - Managing inspection data effectively
 - Creating reports for stakeholders and regulatory compliance
 - Using software tools for pipeline integrity management

Day 4: Maintenance Strategies and Regulatory Compliance

- Module 1: Developing an Effective Maintenance Strategy (07:30 – 09:30)
 - Balancing preventive, predictive, and corrective maintenance
 - Optimizing pipeline maintenance schedules
 - Cost-effective maintenance strategies
- Module 2: Compliance with Industry Regulations and Standards (09:45 – 11:15)
 - Overview of international pipeline standards (e.g., ASME, API)
 - Compliance requirements for pipeline safety and integrity
 - Auditing and reporting for regulatory bodies
- Module 3: Long-Term Pipeline Integrity Management (11:30 – 01:00)
 - Developing a long-term pipeline integrity management plan
 - Asset management strategies for pipeline systems
 - Ensuring the longevity of pipeline infrastructure

Day 5: Real-World Application and Final Review

- Module 1: Case Studies on Pipeline Integrity and Maintenance (07:30 – 09:30)
 - Detailed case studies of pipeline failures and successful maintenance programs
 - Analyzing lessons learned from industry projects
 - Discussing real-world challenges in pipeline integrity
- Module 2: Hands-On Workshops and Group Discussions (09:45 – 11:15)
 - Practical exercises on pipeline inspection and testing
 - Collaborative problem-solving for pipeline issues
 - Sharing insights and strategies for improving pipeline operations
- Module 3: Final Review and Q&A (11:30 – 01:00)
 - Recap of key takeaways from the course
 - Group discussion on implementing learned strategies in participants’ operations
 - Open Q&A session

Certification

Upon successful completion of the course, participants will receive a Certificate of Completion in Pipeline Inspection, Testing, Integrity & Maintenance, validating their expertise in maintaining pipeline systems and ensuring their long-term reliability.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
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- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

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