MERCURY

Asset Integrity Management (AIM) Professional Certification Training

17 – 21 January 2027
Dubai (UAE)



Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

MERCURY

Asset Integrity Management (AIM) Professional Certification Training

Ref: 15982_1001214 **Date:** 17 – 21 January 2027 **Location:** Dubai (UAE) **Fees:** 4900 Euro

Introduction to Asset Integrity Management AIM Training:

Asset Integrity Management AIM is a fundamental discipline that ensures the safety, reliability, and long-term performance of industrial assets, particularly pressure systems, in effectively implementing an AIM in the oil and gas sector, petrochemical plants, and other high-risk industries. The effective implementation of an asset integrity management system is essential for minimizing risks, optimizing asset performance, and ensuring regulatory compliance.

This Asset Integrity Management AIM Professional certification equips professionals with the knowledge and skills to apply AIM principles in real-world scenarios. It focuses on operational integrity, asset integrity management standards, risk-based inspection planning, and corrosion management. It covers the latest AIM solutions that help organizations enhance asset performance and prevent failures that could lead to safety hazards and environmental issues.

Participants will gain expertise in defect assessment techniques, internal and external inspections, maintenance strategies, and regulatory compliance. This Asset Integrity Management AIM Professional training course integrates advanced data-driven decision-making approaches. It ensures that professionals can proactively manage asset risks and extend the operational lifespan of critical infrastructure.

Targeted Groups:

This Asset Integrity Management AIM Professional course is designed for professionals:

- Asset Integrity Engineers and Managers ensure compliance with asset integrity management standards.
- Maintenance and Reliability Engineers focusing on predictive and preventive maintenance.
- Inspection and Corrosion Engineers are responsible for integrity assessments.
- Operations and Maintenance Personnel managing daily system performance.
- Health, Safety, and Environmental HSE Professionals overseeing regulatory compliance.
- Risk and Compliance Officers ensuring adherence to legal and industry standards.
- Pressure System and Pipeline Engineers optimizing production asset integrity management.
- Plant and Facility Managers implementing AIM programs for sustainable operations.
- Quality Assurance and Quality Control QA/QC Professionals ensure integrity in assessments.
- Regulatory and Compliance Specialists navigating industry regulations for asset integrity management in oil and gas.

Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

Course Objectives:

At the end of this Asset Integrity Management AIM Professional course, participants will be able to:

- Understand the principles and importance of asset integrity management AIM.
- Define AIM and its role in oil and gas operations, including AIM definition and standards.
- Identify key safety, environmental, and regulatory compliance requirements in asset integrity management oil and gas.
- Apply best practices for maintaining operational integrity in pressure systems.
- Conduct internal and external inspections using advanced non-destructive testing NDT techniques.
- Assess defects and apply industry standards for evaluation and maintenance.
- Develop risk-based inspection RBI plans for long-term asset management.
- Analyze damage mechanisms and implement proactive monitoring strategies.
- Explore advanced repair techniques to extend asset lifespan and ensure system resilience.
- Evaluate corrosion causes, assessment methods, and mitigation strategies using industry-proven AIM solutions.
- Enhance decision-making through data-driven AIM strategies, improving operational reliability.

Targeted Competencies:

This Asset Integrity Management AIM Professional training strengthens key competencies, including:

- Asset Integrity Management Principles and AIM system implementation.
- Pressure System Safety and Reliability within oil and gas infrastructure.
- Regulatory Compliance and AIM Standards to ensure industry adherence.
- Internal and External Inspection Techniques for defect assessment.
- Risk-Based Inspection RBI Planning to optimize asset performance.
- Defect Identification and Assessment aligned with AIM industry standards.
- Flow Assurance and Operational Integrity for seamless operations.
- Hazard and Operability HAZOP Studies for risk management.
- Corrosion Mechanisms and Prevention Strategies to enhance asset durability.
- Advanced Repair and Maintenance Techniques for Infrastructure Longevity.
- Data Management for Asset Integrity, incorporating predictive analytics.
- Failure Analysis and Root Cause Investigation to Mitigate System Breakdowns.
- Lifecycle Management of Pressure Systems, ensuring operational efficiency.

Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

What is Asset Integrity Management Oil and Gas?

Asset Integrity Management AIM in the oil and gas industry focuses on ensuring the reliability, safety, and compliance of critical assets. A well-implemented AIM system minimizes downtime, prevents failures, and enhances production asset integrity management. This training helps professionals understand the AIM definition, standards, and best practices to maintain infrastructure integrity throughout its lifecycle.

This Asset Integrity Management AIM Professional training provides an understanding of asset integrity management solutions while equipping professionals with the expertise needed to drive asset reliability, compliance, and performance. Whether working in oil and gas, petrochemical, or other industrial sectors, participants will gain invaluable insights into managing the full asset lifecycle through AIM standards and practices.

Course Content:

Unit 1: Foundations of Pressure Integrity:

- Understand the fundamental principles of pressure system management.
- Identify key safety and environmental factors in asset integrity.
- Explore best operational and maintenance practices for pressure systems.
- Learn about regulatory compliance requirements for pressure integrity.
- Investigate common failure modes and their impact on asset performance.
- Discuss industry standards and guidelines for maintaining system integrity.

Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

Unit 2: Operational Integrity and Maintenance:

- Learn about flow assurance and its role in maintaining uninterrupted operations.
- Explore the principles of Hazard and Operability HAZOP studies.
- Identify potential operational risks and mitigation strategies.
- Examine different damage mechanisms affecting pressure systems.
- Implement condition monitoring and predictive maintenance techniques.
- Understand pressure system shutdown and startup procedures.

Unit 3: Risk Management and External Assessment:

- Discover key risk assessment methodologies for pressure systems.
- Learn how to develop a risk-based inspection RBI plan.
- Conduct thorough inspections of pressure vessels, pipework, and relief valves.
- Identify defect types and their implications for system safety.
- Apply assessment codes and industry standards for defect evaluation.
- Understand non-destructive testing NDT methods for external assessments.

Unit 4: Advanced Repair Techniques and Longevity:

- Explore advanced repair techniques for offshore and onshore facilities.
- Learn about composite repair applications and welding strategies.
- Assess the effectiveness of temporary and permanent repair solutions.
- Implement strategies for extending the lifespan of ageing infrastructure.
- Examine rehabilitation methods for corroded or damaged components.
- Discuss regulatory and safety considerations for repair procedures.

Unit 5: Corrosion Management and Best Practices:

- Identify different types of corrosion affecting pressure systems.
- Understand the causes and contributing factors of corrosion.
- Learn about corrosion assessment techniques and monitoring tools.
- Explore corrosion prevention strategies and mitigation measures.
- Implement protective coatings and material selection best practices.
- Analyze case studies of corrosion-related failures and lessons learned.