

**TRAINING TITLE**

**ASSET INTEGRITY MANAGEMENT SYSTEM (AEIMS) AND MONITORING**

**Training Duration**

**5 days**

**Training Venue and Dates**

SS3	Asset Integrity Management System (AEIMS) and Monitoring	5	22-26 Dec 2025	\$5,500	DUBAI, UAE
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**In any of the 4 or 5-star hotels. The exact venue will be informed later.**

**Training Fees**

- \$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch

**Training Certificate**

**Define** Management Consultancy & Training Certificate of course completion will be issued to all attendees.

**TRAINING DESCRIPTION**

This course provides an in-depth understanding of Asset Integrity Management Systems (AIMS) and the critical role they play in ensuring the safety, reliability, and longevity of assets in industries such as oil and gas, manufacturing, and utilities. Participants will learn about the components of an effective AEIMS, including risk management, performance monitoring, and asset lifecycle management. The course will also cover the latest monitoring technologies and techniques used to assess and maintain asset integrity, ensuring compliance with regulatory standards and industry best practices.

**TRAINING OBJECTIVES**

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

- Understand the fundamentals of Asset Integrity Management and the importance of AEIMS in asset lifecycle management.
- Learn how to develop and implement an AEIMS tailored to organizational needs.
- Gain knowledge of risk-based assessment techniques for evaluating asset performance and condition.
- Understand the monitoring tools and technologies used to track asset integrity.
- Develop skills for implementing preventive maintenance, reliability programs, and safety management practices to ensure asset performance.

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- Learn to manage the legal, regulatory, and safety implications of asset integrity management.

### **WHO SHOULD ATTEND?**

- Asset managers, maintenance managers, and engineers in the oil and gas, energy, and manufacturing industries.
- Safety officers and integrity engineers responsible for maintaining asset reliability and safety.
- Professionals involved in monitoring and inspecting critical infrastructure.
- Personnel involved in compliance, quality assurance, and regulatory affairs in asset management.

### **TRAINING METHODOLOGY**

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work& Practical Exercises
- 20% Videos& General Discussions

### **COURSE PROGRAM:**

#### **Day 1: Introduction to Asset Integrity Management (AIM)**

- Overview of Asset Integrity Management and its significance in industrial operations.
- Components of Asset Integrity Management Systems (AIMS).
- The relationship between AEIMS and risk management: Identifying risks and potential hazards.
- Key elements: Risk-based inspection, maintenance strategies, reliability, and safety management.
- Asset lifecycle management: From design and operation to decommissioning.

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## **Day 2: Risk-Based Assessment and Asset Performance Evaluation**

- Understanding Risk-Based Inspection (RBI) and its application in asset management.
- Performance evaluation metrics: Availability, reliability, maintainability, and safety.
- Asset risk management and prioritization based on criticality and failure impact.
- Tools and techniques for risk assessment: Failure modes and effects analysis (FMEA), Fault Tree Analysis (FTA).
- Developing risk profiles for different asset types and systems.

## **Day 3: Monitoring and Inspection Techniques for Asset Integrity**

- Overview of monitoring technologies and systems used in asset integrity management.
- Condition-based monitoring: Vibration analysis, corrosion monitoring, and thermal imaging.
- Non-destructive testing (NDT) methods: Ultrasonic testing, radiographic inspection, and magnetic particle inspection.
- Digital technologies for monitoring: IoT sensors, data analytics, and predictive maintenance software.
- The role of regular inspection in identifying early signs of asset failure.

## **Day 4: Preventive Maintenance and Reliability Programs**

- Developing and implementing preventive maintenance strategies.
- Condition monitoring vs. scheduled maintenance: Benefits and drawbacks.
- Reliability-Centered Maintenance (RCM): Improving asset reliability through targeted maintenance programs.
- The role of spare parts management and inventory control in asset integrity.
- Integrating reliability programs with AEIMS: Ensuring long-term performance and safety.

## **Day 5: Safety, Regulatory Compliance, and Continuous Improvement**

- Legal and regulatory requirements for asset integrity management (e.g., API 580, ISO 55000).
- Understanding safety management systems and their integration with AEIMS.
- Ensuring compliance with industry standards and government regulations.
- Reporting and managing incidents and non-compliance issues.

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- Continuous improvement strategies: Audits, inspections, and performance reviews.

**NOTE:**

**Pre-& Post Tests will be conducted.**

**Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.**



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