

## Asset Integrity Management for the Petroleum Industry

*Istanbul (Turkey)*

*14 - 25 September 2025*

UK Training

# PARTNER



# Asset Integrity Management for the Petroleum Industry

Code: OG28 From: 14 - 25 September 2025 City: Istanbul (Turkey) Fees: 7800 Pound

## Introduction

Asset Integrity Management AIM is critical for ensuring the safe, reliable, and efficient operation of petroleum industry assets. This comprehensive 10-day course provides participants with the latest strategies, tools, and technologies for managing asset integrity throughout the asset lifecycle. From design and construction to operation and decommissioning, participants will learn how to implement and sustain AIM programs that mitigate risks, optimize performance, and comply with regulatory requirements. This course is designed for professionals seeking to enhance their expertise in maintaining the integrity of petroleum industry assets in a rapidly evolving environment.

## Objectives

- Understand the principles and importance of asset integrity management in the petroleum industry.
- Develop and implement comprehensive AIM programs.
- Utilize advanced tools and technologies for monitoring and managing asset integrity.
- Conduct risk assessments and failure analysis.
- Apply best practices for the maintenance, inspection, and repair of petroleum assets.
- Ensure compliance with industry standards and regulatory requirements.
- Optimize asset performance and extend asset life.
- Integrate AIM with other management systems.
- Manage change and continuous improvement in AIM.
- Develop a culture of safety and reliability within their organizations.

## Course Outline

### Day 1

#### Introduction to Asset Integrity Management

- Overview of AIM in the petroleum industry
- Key concepts and definitions
- Importance of AIM for safety, reliability, and performance
- Lifecycle approach to AIM
- Current trends and challenges in AIM



## Day 2

### Developing AIM Programs

- Components of a comprehensive AIM program
- Setting goals and objectives
- Identifying and assessing critical assets
- Developing AIM policies and procedures
- Role of leadership and organizational culture in AIM

## Day 3

### Advanced Tools and Technologies for AIM

- Overview of AIM tools and technologies
  - Inspection and monitoring technologies
  - Data management and analysis tools
  - Predictive maintenance tools
- Implementing digital twins and IoT for AIM
- Utilizing AI and machine learning in AIM

## Day 4

### Risk Assessment and Failure Analysis

- Risk assessment methodologies
- Identifying potential failure modes
- Conducting failure mode and effects analysis FMEA
- Root cause analysis RCA techniques
- Developing risk mitigation strategies

## Day 5

### Maintenance, Inspection, and Repair

- Best practices for maintenance management
- Inspection techniques and technologies
- Repair methodologies for petroleum assets
- Planning and scheduling maintenance activities
- Case studies on maintenance and repair

## Day 6

### Regulatory Compliance and Standards

- Overview of relevant industry standards and regulations
- Ensuring compliance with regulatory requirements



- Conducting audits and assessments
- Reporting and documentation requirements
- Role of regulatory bodies and industry organizations

## Day 7

### Performance Optimization and Life Extension

- Techniques for optimizing asset performance
- Asset life extension strategies
- Condition monitoring and health assessment
- Implementing performance improvement initiatives
- Case studies on performance optimization

## Day 8

### Integrating AIM with Other Management Systems

- Integrating AIM with health, safety, and environmental HSE management
- Linking AIM with quality management systems
- Asset management frameworks and standards e.g., ISO 55000
- Benefits of integrated management systems

## Day 9

### Change Management and Continuous Improvement

- Principles of change management in AIM
- Implementing continuous improvement initiatives
- Monitoring and measuring AIM performance
- Feedback mechanisms and lessons learned
- Adapting to technological advancements and industry changes

## Day 10

### Building a Culture of Safety and Reliability

- Importance of safety culture in AIM
- Promoting a culture of reliability and integrity
- Training and competency development
- Communication and stakeholder engagement
- Strategies for sustaining a strong AIM culture



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