

Asset Integrity Management for the Petroleum Industry

Oil & Gas Engineering
Sharm El-Sheikh (Egypt)
17 - 21 Aug 2025

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A large, detailed image of chess pieces on a checkered board. In the foreground, a gold king piece stands prominently on a white square. To its left, a silver pawn is on a white square, and another silver pawn is on a black square. The background features concentric circles and a checkered pattern, suggesting a strategic or competitive theme.

Asset Integrity Management for the Petroleum Industry

Ref: 321588_141403 **Date:** 17 - 21 Aug 2025 **Location:** Sharm El-Sheikh (Egypt) **Fees:** 3700 Euro

Course Description

This intensive 5-day course provides a comprehensive understanding of Asset Integrity Management AIM in the petroleum industry. Participants will learn essential concepts, risk assessment techniques, and maintenance strategies to ensure optimal asset performance and safety. The course covers both theoretical foundations and practical applications, equipping professionals with the tools to implement effective AIM systems.

Learning Objectives

- Understand the principles and components of Asset Integrity Management
- Apply risk assessment and management techniques in the petroleum industry
- Develop effective maintenance strategies using RCM and RBI methodologies
- Implement lifecycle management approaches for critical assets
- Analyze human factors and their impact on asset integrity
- Create and manage AIM systems aligned with industry standards

Course Modules

Day 1: Introduction to Asset Integrity Management

- AIM concepts and principles
- AIM system components and implementation
- Industry standards and best practices
- Asset lifecycle management

Day 2: Risk Assessment and Management

- Risk identification and analysis techniques
- Quantitative and qualitative risk assessment
- Risk matrices and registers
- Risk-based decision making

Day 3: Maintenance Strategies and Methodologies

- Reliability Centered Maintenance RCM
- Risk-Based Inspection RBI
- Failure Mode and Effects Analysis FMEA
- Computerized Maintenance Management Systems CMMS

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Day 4: Asset Performance and Reliability

- Key Performance Indicators KPIs for asset integrity
- Root Cause Analysis RCA
- Condition monitoring and predictive maintenance
- Data analytics for asset optimization

Day 5: Human Factors and AIM Implementation

- Human factors in asset integrity
- Safety culture and management systems
- AIM auditing and continuous improvement
- Case studies and practical applications

Practical Wins for Participants

- Ability to develop and implement comprehensive AIM systems
- Enhanced skills in risk assessment and maintenance strategy optimization
- Improved decision-making capabilities for asset lifecycle management
- Practical tools for performance monitoring and continuous improvement of asset integrity

A graphic of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a silver knight behind it. The board has a checkered pattern, and there are concentric circles in the background.

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