

OIL & GAS ASSET MANAGEMENT

“Maximizing Lifecycle Value, Reliability, and Performance of Energy Assets”

Schedule

Date	Venue	Fees (Face-to-Face)
23 - 27 Mar 2026	London, UK	USD 3495 per delegate

Introduction

The oil and gas industry operates in an increasingly complex, competitive, and capital-intensive environment. Effective asset management is critical to achieving operational excellence, minimizing lifecycle costs, and ensuring safety and compliance. Integrating strategy, technology, and risk-based planning helps organizations get the best value from their assets.

This intensive 5-day course provides participants with a comprehensive framework for managing physical assets in the oil and gas sector. From acquisition to decommissioning, the course explores asset lifecycle management, reliability engineering, risk mitigation, digital tools, and performance measurement in alignment with ISO 55000 standards

Objectives

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

- Understand the fundamentals and principles of asset management in the oil & gas sector
- Apply lifecycle planning and optimization strategies to asset-intensive operations
- Integrate risk-based decision-making into asset investment and maintenance plans
- Use KPIs and reliability data to improve performance and reduce cost of ownership
- Align asset management practices with ISO 55000 and regulatory frameworks

Why Attend

- Learn how to optimize performance, reliability, and cost across asset lifecycles
- Strengthen asset integrity and compliance in complex operating environments
- Apply globally recognized best practices in asset planning and strategy
- Improve coordination between engineering, operations, finance, and maintenance
- Gain hands-on experience through simulations, tools, and real-world case studies

Target Audience

This program is designed for:

- Asset, maintenance, and operations managers
- Facility and plant engineers
- Project and reliability engineers
- Risk and integrity professionals
- Anyone involved in oil and gas asset lifecycle planning and performance

Individual Benefits

Key competencies that will be developed include:

- Asset lifecycle modeling and cost control
- Reliability-centered and risk-based maintenance
- Strategic asset planning and condition monitoring
- KPI development and performance evaluation
- Compliance with ISO 55000 and regulatory standards

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced asset reliability and operational uptime
- Reduced lifecycle and maintenance costs
- Improved decision-making based on asset performance and risk data
- Strengthened compliance and audit readiness
- Long-term value generation from capital-intensive assets

Instructional Methodology

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

- Strategy Briefings - ISO 55000 framework, asset policies, and lifecycle strategy
- Case Studies - Offshore platforms, refineries, and pipeline asset scenarios
- Workshops - Risk assessment, failure analysis, and investment prioritization
- Peer Exchange - Sharing field challenges and practices across regions
- Tools - Asset registers, reliability templates, and lifecycle costing models

Course Outline

Training Hours: 07:30 AM - 03:30 PM Daily Format: 3-4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Break: 01:00 - 02:00

Day 1: Asset Management Principles in Oil & Gas

- Module 1: Overview of Asset Management (07:30 - 09:30) • Definition, scope, and value of asset management • Industry-specific challenges and global standards (ISO 55000) • Alignment with business strategy
- Module 2: Asset Lifecycle and Strategy (09:45 - 11:15) • Lifecycle stages: acquisition to disposal • Decision criteria for investment, use, and renewal • Asset classification and criticality
- Module 3: Planning and Asset Information Systems (11:30 - 01:00) • Asset registers and hierarchical structures • Asset information management and CMMS/EAM integration • Performance-based planning

Day 2: Reliability and Risk-Based Management

- Module 4: Reliability and Maintenance Strategies (07:30 - 09:30) • Preventive, predictive, and condition-based maintenance • Reliability-Centered Maintenance (RCM) • Failure Modes and Effects Analysis (FMEA)
- Module 5: Asset Risk Management (09:45 - 11:15) • Risk identification and criticality assessment • Risk mitigation planning • Linking risk to asset investment and maintenance
- Module 6: Workshop - Reliability and Risk Mapping (11:30 - 01:00) • Practical application of risk tools to case assets

Day 3: Performance, Optimization & Cost Management

- Module 7: Performance Metrics and KPIs (07:30 - 09:30) • Availability, reliability, and maintainability metrics • MTBF, MTTR, OEE, and asset health indicators • Benchmarking performance across assets
- Module 8: Lifecycle Costing and Optimization (09:45 - 11:15) • Total cost of ownership (TCO) models • Cost-benefit analysis and budget planning • Optimization of CAPEX/OPEX balance
- Module 9: Workshop - Asset Performance Dashboard Design (11:30 - 01:00) • Developing visual metrics for real-time decision-making
- **Day 4: Asset Integrity and Digital Tools** Module 10: Asset Integrity and Inspection Planning (07:30 - 09:30) • Inspection, testing, and integrity assurance • Compliance and failure prevention techniques • Asset integrity management systems (AIMS)
- Module 11: Digitalization in Asset Management (09:45 - 11:15) • IoT, sensors, and real-time monitoring • Predictive analytics and digital twins • Data-driven decision-making
- Module 12: Workshop - Digital Asset Scenario (11:30 - 01:00) • Participants design a digital monitoring plan for critical assets
- **Day 5: Integration, Governance & Action Planning** Module 13: Governance and Asset Management Systems (07:30 - 09:30) • Policies, roles, and responsibilities • Governance frameworks and performance review • Linking AM to corporate sustainability
- Module 14: Building an Asset Management Plan (09:45 - 11:15) • Asset management objectives, scope, and plans • Stakeholder communication and resource planning • Planning horizon and implementation roadmap
- Module 15: Final Workshop - AM Strategy Simulation (11:30 - 01:00) • Team presentations of asset management plans for oil & gas assets

Certification

Participants will receive a Certificate of Completion in Oil & Gas Asset Management, validating their expertise in lifecycle planning, reliability improvement, and strategic asset governance for the energy sector.

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