London TDM

Oil and Gas Industry Training Courses

Course Venue: United Kingdom - London

Course Date: From 16 August 2026 To 20 August 2026

Course Place: London Paddington

Course Fees: 7,500 USD

Introduction

This professional course on "Asset Integrity and Maintenance in Energy Facilities" is designed to provide participants with in-depth knowledge and practical skills necessary to ensure the reliability, safety, and efficiency of energy facilities. The course emphasizes the importance of maintaining asset integrity to minimize risks and extend the operational lifespan of equipment and infrastructure in the energy sector.

Objectives

- Understand the fundamental concepts of asset integrity management and maintenance.
- Identify key challenges and solutions in maintaining energy facility assets.
- Learn effective strategies for risk assessment and mitigation.
- Develop skills for planning and executing maintenance programs.
- Familiarize with the latest technological advancements and best practices in asset integrity.

Course Outlines

Day 1: Introduction to Asset Integrity Management

- Overview of asset integrity in energy facilities
- Key components of an asset integrity management system
- Regulatory standards and compliance
- Life cycle management of energy assets
- Case studies on asset integrity management successes

Day 2: Risk Assessment and Mitigation Strategies

- Principles of risk management in energy facilities
- Risk assessment techniques and tools
- Developing and implementing mitigation plans
- The role of safety and environmental considerations
- Interactive workshop on risk assessment

Day 3: Maintenance Planning and Execution

- Types of maintenance strategies (preventive, predictive, and corrective)
- Developing a maintenance plan
- Resource allocation and scheduling
- Evaluation of maintenance outcomes
- Interactive session on maintenance planning

Day 4: Technological Advancements in Asset Integrity

- Innovative technologies in asset monitoring (IoT, AI, and drones)
- Data analysis and condition monitoring
- Digital twins and their application in maintenance
- Integrating new technologies into existing systems
- Hands-on demonstration of advanced monitoring tools

Day 5: Best Practices and Future Trends

- Review of best practices in asset integrity management
- Benchmarking and performance evaluation
- Future trends and challenges in asset maintenance
- Panel discussion with industry experts
- Course wrap-up and feedback session