



London TDM

# Oil and Gas Industry Training Courses

**Course Venue:** Malaysia - Kuala Lumpur

**Course Date:** From 02 November 2025 To 06 November 2025

**Course Place:** Royale Chulan Hotel

**Course Fees:** 6,000 USD

## Introduction

The "Pipeline Operations and Integrity Management" course is designed to equip professionals with the critical skills and knowledge required to maintain efficient and safe pipeline operations. Over five days, participants will gain insight into pipeline design, operation, monitoring, and the latest technologies in integrity management. This intensive course is suited for professionals in the oil and gas industry who are involved in engineering, operations, and maintenance of pipeline systems.

## Objectives

- Understand the fundamental concepts of pipeline operations.
- Learn the techniques for effective pipeline integrity management.
- Identify risk management strategies for pipeline operations.
- Explore the latest technologies and regulatory requirements in the industry.
- Develop practical skills for pipeline monitoring and maintenance.

## Course Outlines

### Day 1: Fundamentals of Pipeline Operations

- Introduction to Pipeline Systems
- Pipeline Design and Construction
- Pipeline Material Selection
- Operational Safety and Hazards
- Case Studies: Pipeline Operational Challenges

### Day 2: Pipeline Transportation and Flow Assurance

- Flow Dynamics in Pipelines
- Pressure Management and Control
- Pipeline Pigging and Cleaning
- Techniques for Flow Assurance
- Pipeline Leak Detection Systems

### Day 3: Pipeline Integrity Management

- Introduction to Integrity Management Practices
- Inspection and Monitoring Techniques
- Corrosion Control and Protection
- Anomaly Detection and Assessment
- Repair and Rehabilitation Techniques

### Day 4: Risk Management and Regulatory Compliance

- Risk Assessment and Mitigation Strategies
- Emergency Response Planning
- Regulatory and Environmental Compliance
- Incident Investigation and Reporting
- Industry Standards and Best Practices

## **Day 5: Advanced Technologies and Future Trends**

- Smart Pipeline Technologies
- The Role of Automation and AI
- Data Analytics and Decision Support Tools
- Digital Twins and Virtual Pipelines
- Future Trends in Pipeline Management