



London TDM

# Oil and Gas Industry Training Courses

**Course Venue:** United Kingdom - London

**Course Date:** From 16 November 2025 To 20 November 2025

**Course Place:** London Paddington

**Course Fees:** 7,500 USD

## Introduction

Downstream Operations and Refinery Management are critical components in the petroleum industry, encompassing the refining of crude oil and the selling and distribution of oil and gas products. This course is designed to provide participants with a comprehensive understanding of the processes, management, and operational strategies required for successful downstream operations in the oil and gas sector.

- Understand the fundamentals of refinery operations and processes.
- Learn about the various products and their specifications produced in refineries.
- Gain insights into the management of downstream operations and logistics.
- Develop skills to improve operational efficiency and sustainability.
- Identify and mitigate potential risks in downstream operations.

## Course Outlines

### Day 1: Introduction to Downstream Operations

- Overview of the petroleum industry
- Role and significance of downstream operations
- Basic refinery configurations and types
- Key processes and technologies involved
- Introduction to product specifications and markets

### Day 2: Refining Processes and Technologies

- Crude oil distillation processes
- Catalytic cracking and hydrocracking
- Desulfurization and hydro-treating processes
- Blending and formulation of end products
- Emerging technologies in refining

### Day 3: Refinery Management and Efficiency

- Managing refinery operations and production planning
- Cost optimization strategies
- Energy management and efficiency improvements
- Operational safety and risk management
- Case studies on successful refinery management

### Day 4: Logistics and Distribution in Downstream

- Supply chain management in downstream operations
- Transport and storage of refined products
- Retail and distribution strategies
- Quality management in product distribution
- Regulatory considerations and compliance

### Day 5: Sustainability and Future Trends

- Environmental impact and sustainability in refining
- Transitioning to low-carbon operations
- Renewable energy integration and biofuels
- Digital transformation in downstream operations
- Future trends and innovations in the industry