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

Enhanced oil recovery (EOR) is a critical component in maximizing the recovery of oil from reservoirs. This professional course is designed to provide participants with a comprehensive understanding of various EOR techniques, their implementation, and the considerations involved in selecting the most suitable methods for specific reservoirs. Through hands-on exercises and real-world case studies, participants will gain valuable insights into enhancing oil production efficiency.

Objectives

- Understand the fundamentals of enhanced oil recovery techniques.
- Evaluate the economic and technical feasibility of different EOR methods.
- Gain insights into the latest advancements in EOR technologies.
- Analyze case studies to understand real-world applications of EOR.
- Develop strategies for optimizing oil recovery from mature fields.

Course Outlines

Day 1: Introduction to Enhanced Oil Recovery

- Overview of oil recovery processes
- Basics of primary, secondary, and tertiary recovery
- The importance of enhanced oil recovery in the petroleum industry
- Types of EOR techniques
- Factors influencing the selection of EOR methods

Day 2: Thermal Recovery Methods

- Introduction to thermal recovery techniques
- Steam injection and cyclic steam stimulation
- In-situ combustion processes
- Application of steam flooding
- Environmental and economic considerations of thermal methods

Day 3: Gas Injection Techniques

- Fundamentals of gas injection
- Miscible and immiscible gas injection processes
- CO2 injection and its impact on oil recovery
- Nitrogen and hydrocarbon gas injection
- Case studies and performance analysis of gas injection

Day 4: Chemical EOR Methods

- Introduction to chemical EOR techniques
- Polymer flooding and its applications
- Surfactant-polymer flooding
- Alkaline surfactant polymer (ASP) flooding
- Challenges and advancements in chemical EOR

Day 5: Emerging EOR Technologies and Field Applications

- Emerging EOR technologies and innovations
- Nano-assisted EOR and its potential
- Field applications and real-world examples
- Technical and economic evaluation of EOR projects
- Future trends and sustainability in enhanced oil recovery