London TDM

Oil and Gas Industry Training Courses

Course Venue: United Kingdom - London

Course Date: From 15 February 2026 To 19 February 2026

Course Place: London Paddington

Course Fees: 7,500 USD

Introduction

This 5-day professional course, titled "Production Optimization in Oilfields," is designed to equip industry professionals with advanced strategies and techniques to enhance the production efficiency and cost-effectiveness of oilfield operations. Participants will gain a comprehensive understanding of the latest technologies, methodologies, and best practices to boost productivity and mitigate challenges in oil extraction and processing.

Objectives

- Understand the principles of production optimization in oilfields.
- Identify and apply advanced techniques to enhance oil recovery.
- Analyze data and apply decision-making tools to optimize production.
- Learn about cutting-edge technologies and their applications in oilfield optimization.
- Develop customized strategies to improve field performance and reduce costs.

Course Outlines

Day 1: Introduction to Production Optimization

- Overview of oilfield production systems
- Key challenges in production optimization
- Introduction to optimization theories and practices
- Understanding production constraints and bottlenecks
- Basics of production data analysis

Day 2: Enhanced Oil Recovery Techniques

- Overview of enhanced oil recovery (EOR) methods
- Chemical EOR processes and applications
- Thermal EOR methods and technologies
- Gas injection techniques in oil recovery
- Case studies on successful EOR projects

Day 3: Data Analytics in Production Optimization

- Role of data analytics in oil production
- Introduction to data collection and management tools
- Predictive analytics for production forecasting
- Leveraging big data for optimization decisions
- Case studies: Data-driven production optimization

Day 4: Advanced Technologies in Oilfield Optimization

- Latest innovations in production technology
- Automation and digital transformation in oilfields
- Artificial Intelligence (AI) applications in optimization
- Use of robotics and IoT in production enhancement
- Technology integration strategies for oilfields

Day 5: Strategy Development and Implementation

- Framework for developing optimization strategies
- Risk management in oilfield production
- Cost-benefit analysis for optimization projects
- Developing customized field optimization plans
- Course review and participant presentations