

Heavy Oil Gathering and Transport System (Oil Movement)

Course Title	Heavy Oil Gathering and Transport System (Oil Movement)
Country	London
Location	4-5 Star Hotel
Time	8:00 AM - 2:00 PM
Date	10 - 14 November 2025

Program Overview

This advanced program is designed for petroleum industry professionals involved in the production, gathering, and transportation of heavy oil. Participants will gain in-depth knowledge of oil movement systems, pipeline operations, storage facilities, and modern technologies that enhance safety, efficiency, and reliability in petroleum operations.

Key Objectives

By the end of this training, participants will be able to:

- Understand the fundamentals of heavy oil properties and flow behavior.
- Analyze gathering system configurations and design considerations.
- Apply best practices for pipeline operation, integrity, and maintenance.
- Evaluate challenges in heavy oil transportation and solutions (heating, additives, diluents, etc.).
- Implement effective monitoring, control, and safety procedures.
- Improve decision-making in oil movement logistics and emergency handling.

Course Outline (5 Days)

Day 1:

- Introduction to Heavy Oil Characteristics
- Flow Behavior, Viscosity Challenges, and Treatment Methods
- Gathering System Configurations and Field Applications

Day 2:

- Design Principles of Oil Gathering Systems
- Storage Tanks, Separators, and Booster Stations
- Pipeline Layouts and Operational Considerations

Day 3:

- Transportation Challenges of Heavy Oil
- Heating Systems, Blending, and Chemical Additives
- Case Studies from Petroleum Industry

Day 4:

- Oil Movement Operations and Logistics
- SCADA Systems and Automation in Oil Transport
- Safety, Risk Assessment, and Emergency Procedures

Day 5:

- Integrity Management of Gathering and Transport Systems
- Maintenance Strategies and Best Practices
- Group Workshop & Final Case Study (Problem Solving)
- Wrap-up and Key Lessons Learned

Who Should Attend

- Petroleum Engineers
- Process & Production Engineers
- Pipeline & Transport Engineers
- HSE Managers and Supervisors
- Field Operators and Oil Movement Staff