

Enhanced Oil Recovery (EOR) Technologies & Applications

UK Training

PARTNER



Enhanced Oil Recovery (EOR) Technologies & Applications

Introduction

Enhanced Oil Recovery EOR is among the most advanced strategies in petroleum production, designed to maximize oil extraction after primary and secondary recovery methods have been exhausted.

This course provides a comprehensive overview of cutting-edge EOR technologies and their real-world applications, enabling participants to understand the scientific principles, select the right method, evaluate economic feasibility, and ensure operational efficiency.

It is tailored for engineers, supervisors, field managers, and production planners who aim to improve operational performance and achieve maximum value from oil reserves.

Course Objectives

- Understand the core principles of Enhanced Oil Recovery.
- Differentiate between the main types and techniques of EOR.
- Analyze geological and geophysical data to select the right recovery method.
- Apply strategies to optimize production within safety and quality standards.
- Evaluate the economic viability of EOR projects.
- Address operational challenges and mitigate risks.
- Review real-world case studies of EOR implementation.
- Enhance technical and strategic decision-making skills.

Course Outlines

Day 1: Fundamentals and EOR Concepts

- Introduction to oil recovery methods.
- Distinctions between primary, secondary, and enhanced recovery.
- Physical and chemical principles of EOR.
- Factors influencing technology selection.
- Key indicators for initiating EOR projects.
- Practical exercise: analyzing preliminary oil field data.

Day 2: Thermal EOR Techniques

- Steam flooding.
- In-situ combustion.
- Electrical heating and innovative methods.
- Impact of heat on oil viscosity and productivity.
- Safety requirements for thermal injection operations.
- Case study: steam flooding project.

Day 3: Chemical EOR Techniques

- Polymer flooding.
- Surfactant flooding.
- Alkaline flooding.
- Effects of chemicals on oil displacement and mobility.



- Managing and monitoring chemical injection operations.
- Practical exercise: designing a chemical injection plan.

Day 4: Gas EOR Techniques

- CO₂ injection.
- Nitrogen and hydrocarbon gas injection.
- Advantages and limitations of each gas type.
- Environmental considerations and emission reduction.
- Calculating injection ratios and optimal reservoir pressure.
- Case study: CO₂ flooding project.

Day 5: Practical Applications and Economic Analysis

- Integrating multiple EOR techniques for higher efficiency.
- Key performance indicators for EOR projects.
- Economic evaluation of EOR investments.
- Operational challenges and risk mitigation.
- Preparing performance reports and recommendations.
- Final exercise: designing an integrated EOR project.

Why Attend this Course: Wins & Losses!

- Gain specialized knowledge of advanced EOR technologies.
- Learn how to assess and select the right technique for each reservoir.
- Understand the impact of each method on productivity and project economics.
- Apply theoretical knowledge to real-world scenarios.
- Improve technical and strategic decision-making skills.
- Stay updated with the latest EOR innovations.
- Enhance operational efficiency while minimizing risks.
- Receive a recognized certificate to strengthen your professional profile.

Conclusion

The Enhanced Oil Recovery EOR Technologies & Applications course equips participants with both theoretical insights and practical tools to design, implement, and manage EOR projects effectively. By combining in-depth knowledge with real-world case studies, participants will be prepared to optimize oil field performance and ensure sustainable production outcomes.

This course is an essential step toward excellence in the petroleum sector, helping professionals deliver measurable and lasting results.

Blackbird Training Cities

Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Annecy (France)



Bordeaux (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden)



Podgorica (Montenegro)



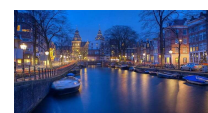
Batumi (Georgia)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)
(Switzerland)



Paris (France)



Athens (Greece)



Barcelona (Spain)



Munich (Germany)



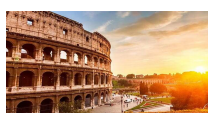
Geneva



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich



Manchester (UK)



Milan (Italy)



Blackbird Training Cities

USA & Canada



Los Angeles (USA)



Orlando, Florida (USA)



Online



Phoenix, Arizona (USA)



Houston, Texas (USA)



Boston, MA (USA)



Washington (USA)



Miami, Florida (USA)



New York City (USA)



Seattle, Washington (USA)



Washington DC (USA)



In House



Jersey, New Jersey (USA)



Toronto (Canada)

ASIA



Baku (Azerbaijan)
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Melbourne (Australia)
Korea



Phuket (Thailand)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Seoul (South)



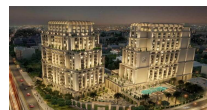
Pulau Ujong (Singapore)



Irbid (Jordan)



Jakarta (Indonesia)



Amman (Jordan)



Beirut



Blackbird Training Cities

AFRICA



Kigali (Rwanda)



Cape Town (South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Morocco)



Nairobi (Kenya)



Zanzibar (Tanzania)



Tangier (Morocco)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



Blackbird Training Categories

Management & Admin

Entertainment & Leisure
Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Elevation

Technical Courses

Artificial Intelligence (AI)
Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training



 International House 185 Tower Bridge
Road London SE1 2UF United Kingdom

 +44 7401 1773 35
+44 7480 775526

 Sales@blackbird-training.com

 www.blackbird-training.com

