



OIL AND GAS | OG-041

Enhanced Oil Recovery Methods

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Course content

Why Attend

Primary and secondary recovery typically leave the majority of oil in the reservoir. Enhanced oil recovery methods can unlock significant additional reserves from mature fields, but they require careful screening, design and economic evaluation.

This Aractech course covers EOR principles and the main methods: gas injection, thermal recovery, chemical flooding and emerging techniques including CO₂-EOR linked to carbon storage. Participants learn screening criteria, pilot design, monitoring and economics, supported by field case studies.

Course Methodology

- Technical lectures with field examples
- Screening exercises
- Pilot design workshops
- Economic evaluation exercises
- Group discussions

Course Objectives

- Explain recovery mechanisms and EOR principles
- Describe gas, thermal and chemical EOR methods
- Apply EOR screening criteria
- Plan and evaluate EOR pilots
- Assess EOR economics and risks
- Understand CO₂-EOR and links to carbon storage

Target Audience

- Reservoir and petroleum engineers

Course content

- Production engineers
- Asset and development managers
- Field development planners

Course outline

Detailed course outline

Day-by-day outline for Enhanced Oil Recovery Methods.

Day 1 - Recovery Principles

- 09:00-09:39 | Primary, secondary and tertiary recovery
- 09:39-10:18 | Displacement efficiency
- 10:18-10:57 | Sweep efficiency
- 10:57-11:00 | Mature field challenges
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Mature field challenges (continued)
- 12:05-12:43 | EOR market overview
- 12:43-14:00 | Exercise: Recovery factor analysis

Day 2 - Gas Injection Methods

- 09:00-09:39 | Miscible and immiscible gas injection
- 09:39-10:18 | CO2 flooding
- 10:18-10:57 | Nitrogen and hydrocarbon gas
- 10:57-11:00 | Water alternating gas
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Water alternating gas (continued)
- 12:05-12:43 | Operational issues
- 12:43-14:00 | Case study: CO2 flood

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Day 3 - Thermal and Chemical Methods

- 09:00-09:39 | Steam injection
- 09:39-10:18 | In-situ combustion
- 10:18-10:57 | Polymer flooding
- 10:57-11:00 | Surfactant and alkaline flooding
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Surfactant and alkaline flooding (continued)
- 12:05-12:43 | Low-salinity water
- 12:43-14:00 | Exercise: Method comparison

Day 4 - Screening and Pilots

- 09:00-09:30 | Screening criteria
- 09:30-10:30 | Laboratory studies
- 10:30-11:00 | Pilot design
- 11:00-11:30 | Coffee break
- 11:30-12:00 | Pilot design (continued)
- 12:00-12:30 | Monitoring and surveillance
- 12:30-13:00 | Scaling up
- 13:00-14:00 | Workshop: EOR screening for a field

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Day 5 - Economics and Future Trends

- 09:00-09:45 | EOR economics
- 09:45-10:30 | Risk assessment
- 10:30-11:00 | CO2-EOR and storage
- 11:00-11:30 | Coffee break
- 11:30-11:45 | CO2-EOR and storage (continued)
- 11:45-12:30 | Digital tools for EOR
- 12:30-13:15 | Project decision-making
- 13:15-14:00 | Capstone: EOR project proposal

Seminar dates

Available seminar dates

Live dates and pricing for Enhanced Oil Recovery Methods generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	London	Classroom	€2,315
21 - 25 December 2026	Amsterdam	Classroom	€2,830
18 - 22 January 2027	Amsterdam	Classroom	€2,830
15 - 19 February 2027	Istanbul	Classroom	€1,978
15 - 19 March 2027	Geneva	Classroom	€4,315
19 - 23 April 2027	Barcelona	Classroom	€2,815
17 - 21 May 2027	Rome	Classroom	€3,460
21 - 25 June 2027	Munich	Classroom	€3,225
19 - 23 July 2027	Geneva	Classroom	€4,315
16 - 20 August 2027	Amsterdam	Classroom	€2,830

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20 - 24 September 2027	Amsterdam	Classroom	€2,830
18 - 22 October 2027	Istanbul	Classroom	€1,978
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20 - 24 December 2027	Barcelona	Classroom	€2,815
2 - 6 November 2026	Online / Live	Online / Live	€1,815
21 - 25 December 2026	Online / Live	Online / Live	€1,815
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15 - 19 February 2027	Online / Live	Online / Live	€1,815
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19 - 23 April 2027	Online / Live	Online / Live	€1,815

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21 - 25 June 2027	Online / Live	Online / Live	€1,815
19 - 23 July 2027	Online / Live	Online / Live	€1,815
16 - 20 August 2027	Online / Live	Online / Live	€1,815
20 - 24 September 2027	Online / Live	Online / Live	€1,815
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