

Advanced EOR Project Screening and Pilot Design Training Course

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Overview

Advanced EOR Project Screening and Pilot Design Training Course is a one-week course for reservoir and subsurface teams who leave with an EOR Project Screening and Pilot Assurance File. Participants apply enhanced oil recovery screening, recovery mechanism diagnosis, EOR pilot design, injectivity and conformance monitoring, and scale-up assurance to mature-field decisions. The course links reservoir evidence, laboratory results, simulation, economics, uncertainty, and decision gates. Agile Leaders Training Center presents EOR project screening and pilot design.

Who Should Attend

- Reservoir engineering functions responsible for remaining-oil assessment, recovery forecasts, and method selection
- Petroleum and production engineering functions responsible for injection performance, well response, and field integration
- Laboratory and fluid functions responsible for compatibility, rheology, phase behavior, and displacement evidence
- Subsurface asset functions responsible for development decisions, uncertainty, economics, and scale-up
- EOR project functions responsible for pilot scope, execution readiness, monitoring, and decision gates
- Technical assurance functions responsible for evidence challenge, risk review, and approval records

The course assumes participants can interpret reservoir, fluid, production, and economic data, and it leaves out introductory reservoir engineering, general production operations, software administration, and full-field simulation instruction.

Departments and Industries

The course supports departments and industries that evaluate and deliver enhanced recovery investments.

- Oil and gas reservoir development, production, and asset management
- Geothermal and subsurface fluid-injection projects
- Laboratory, chemical, gas-injection, and reservoir technology services
- Field development planning, economics, and investment assurance
- Research, pilot testing, and recovery technology development

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Learning Objectives

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

- Build reservoir and fluid data-readiness records for EOR screening
- Compare gas, chemical, and thermal recovery methods
- Analyze laboratory, simulation, economic, and uncertainty evidence
- Design pilot objectives, patterns, measurements, and acceptance criteria
- Diagnose injectivity, conformance, sweep, and production responses
- Evaluate decision gates and prioritize scale-up actions

Course Agenda

Day 1: Screen Reservoir and Fluid Evidence

- Remaining-Oil and Recovery-Mechanism Diagnostic Map
- Reservoir and Fluid Data-Readiness Register
- Prior Waterflood Response Evidence Sheet
- EOR Method Screening Criteria Matrix
- Data Gap, Assumption, and Uncertainty Log

Day 2: Select EOR Methods

- Miscible Gas and CO2 Injection Selection Model
- Polymer Mobility-Control Assessment Sheet
- Surfactant, Alkaline, and ASP Evidence Matrix
- Thermal Recovery Applicability Checklist
- Method Ranking and Elimination Decision Board

Day 3: Build Laboratory and Simulation Evidence

- Fluid Compatibility and Phase-Behavior Test Plan
- Rheology, Adsorption, and Interfacial-Tension Evidence Table
- Coreflood and Displacement Test Interpretation Sheet
- Sector Simulation Assumption and Calibration Register
- Technical-Economic Scenario and Sensitivity Matrix

Day 4: Design and Monitor the Pilot

- Pilot Objective and Success-Criteria Charter
- Pattern, Well-Spacing, and Injectant-Volume Design Sheet
- Injectivity, Conformance, and Sweep Monitoring Plan
- Instrumentation, Sampling, and Surveillance Schedule
- Pilot Risk, Contingency, and Decision-Gate Register

Day 5: Practice EOR Project Assurance

- Suggested Exercise: Audit Reservoir Screening Evidence
- Suggested Exercise: Compare Gas, Chemical, and Thermal Options
- Suggested Exercise: Diagnose Pilot Monitoring Responses
- Suggested Exercise: Challenge Economics, Uncertainty, and Scale-Up Readiness
- Capstone Exercise: Complete the EOR Project Screening and Pilot Assurance File

Practical Exercises

The course uses suggested activities to convert technical evidence into traceable EOR project decisions.

- Suggested activity: screen a mature reservoir and document data gaps, assumptions, and recovery-mechanism evidence.
- Suggested activity: compare gas, polymer, surfactant, and thermal options against reservoir and fluid constraints.
- Suggested activity: design a pilot pattern with measurements, success criteria, risks, and contingencies.
- Suggested activity: interpret pilot responses and recommend stop, modify, extend, or scale-up actions.

FAQs

Who suits advanced EOR project screening and pilot design, and what does it assume?

Advanced EOR project screening suits reservoir engineers, production technologists, laboratory specialists, project teams, asset decision-makers, and assurance reviewers. It assumes working ability with reservoir, fluid, production, simulation, and economic evidence.

How does EOR project screening differ from introductory reservoir engineering?

EOR project screening compares recovery mechanisms, method applicability, laboratory evidence, pilot design, monitoring, economics, uncertainty, and scale-up gates. Introductory reservoir engineering establishes broader concepts such as rock and fluid properties, material balance, flow, and depletion behavior.

What evidence supports selection of an EOR method?

EOR method selection uses reservoir depth, pressure, temperature, heterogeneity, fluid properties, residual oil, prior flood response, compatibility tests, displacement evidence, simulation results, injectivity expectations, economics, uncertainty, and operational constraints.

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How should an EOR pilot define success before injection?

An EOR pilot should define measurable objectives, baseline behavior, pattern and volumes, instrumentation, injectivity and conformance indicators, production response, uncertainty ranges, acceptance criteria, contingencies, and decision gates before injection begins.

Conclusion

Participants take back an EOR Project Screening and Pilot Assurance File linking data readiness, method selection, laboratory and simulation evidence, pilot design, monitoring, economics, uncertainty, and scale-up gates. It changes disconnected studies into a traceable project decision. The file supports technical review, pilot governance, and post-pilot learning.

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