

**DRILLING, WELLS AND RESERVOIR ENGINEERING**

Enhanced Oil Recovery Screening and Projects

5 day course

Classroom, online or in-house

Course overview

After primary and secondary recovery, more than half of the original oil commonly remains in place, trapped by capillary forces or bypassed by poor sweep. Enhanced oil recovery targets that oil, but each method works only within a narrow window of reservoir and fluid conditions. Delegates start with the physics of residual oil: capillary number, mobility control and miscibility. Screening criteria are then applied to gas injection, both miscible and immiscible, to chemical methods including polymer, surfactant and alkaline floods, and to low salinity and microbial concepts. Laboratory work, pilot design and monitoring are covered as the path from screening to field scale. Chemical supply, produced water handling and project economics are discussed as practical constraints. Delegates leave able to screen candidate fields, select a method and plan a pilot.

What you will learn

- Explain capillary number, mobility control and miscibility as recovery mechanisms
- Apply screening criteria to rank EOR methods for a reservoir
- Evaluate miscible and immiscible gas injection including CO₂
- Compare polymer, surfactant and alkaline chemical floods
- Assess low salinity and microbial methods and their maturity
- Design laboratory programmes and field pilots
- Identify operational and economic constraints on EOR projects

Who should attend

- Reservoir engineers
- Field development planners
- Production chemists
- Asset managers of mature fields
- Laboratory specialists in recovery processes

Course outline

- 01** Where remaining oil sits
- 02** Recovery mechanisms and dimensionless numbers
- 03** Screening methodology
- 04** Gas injection processes
- 05** Polymer flooding
- 06** Surfactant and alkaline methods
- 07** Low salinity and emerging methods
- 08** Laboratory work and pilot design
- 09** Project constraints and scale up

Upcoming dates



Dates	Venue	Format	Fee per delegate
19 to 23 October 2026	Gaborone, Botswana	Classroom	R19,950
26 to 30 October 2026	Port Louis, Mauritius	Classroom	USD 1,325
23 to 27 November 2026	Cape Town, South Africa	Classroom	R19,950
15 to 19 March 2027	Online	Online	R8,500

Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 1,325** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriScience.co.za, or WhatsApp us on **+27 63 479 1136**.

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