Petrogenium. Academy

Upstream (EOR & Water Flooding)

Principles aspects of Enhanced Oil Recovery

Consultant / Trainer

Andrew Parker

The **Petrogenium. Principles aspects of Enhanced Oil Recovery** participants will gain a comprehensive understanding of Enhanced Oil Recovery (EOR) techniques, including their applications, requirements, and economic considerations. Through real field examples and discussions, attendees will learn how to evaluate when EOR is applicable, select the most suitable EOR methods, and understand the technical complexities of various EOR processes. The course also highlights how different professional disciplines contribute to successful EOR field development projects.

Participants

This **Petrogenium.** course designed for cross disciplined technical staff to provide a basis of understanding for the topics covered.

Learning Objectives

The course key learning objective is for the participants to obtain fundamental knowledge of EOR methods. The course covers the economic feasibility and risks of EOR projects, regulatory and environmental aspects, and strategies for optimizing production and extending reservoir life. Attendees will also acquire knowledge on EOR project design, planning, and implementation, including pilot tests and field-scale development, and will understand the collaborative roles of various disciplines in successful EOR field development. Overall, participants will leave equipped with both theoretical knowledge and practical skills relevant to real-world EOR applications.

Programme

2 DAY TRAINING COURSE

Topics

Introduction to hydrocarbon recovery

- Understanding the subsurface
- The genesis and physical properties of hydrocarbons and water
- Oil and gas production
- How much oil or gas is usually recovered
- Exercise 01: Gas recovery estimation

Objectives of Enhanced Oil Recovery (EOR)

- The different modes of oil recovery
- Applicability of different EOR methods
- Key components of the following EOR methods
  - Condensate stripping
  - Flue-gas soaking
  - Miscible gas flooding (including mWAG)
  - Thermal methods
  - CO2 flooding
  - Polymer flooding
  - Surfactant flooding (ASP and SP)
- Exercise 02: Propose the next step in recovery (EOR) for the Berm oil Field

Why select Petrogenium.?

The above support will be provided by principal consultants with 30+ years world-class experience in the technology and hands-on know-how from operation of refinery units.

Because Experience Matters

Contact Petrogenium.:

Email: training@petrogenium.com
Website:https://www.petrogenium.com/training/

Programme

Topics

Economic aspects of EOR

- Experimental requirements
- Piloting or phasing
- Chemical manufacture, transport and storage
- Field equipment
- Well density and specialist completion requirements
- Carbon footprint
- Produced fluids management
- Example 03: Road map to Berm Field EOR development

Field examples

- Condensate stripping and Miscible gas flood
- Polymer and ASP Flooding

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