

Clastic Reservoir Characterisation

Consultant / Trainer

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Petrogenium (in collaboration with EPTS) **Clastic Reservoir Characterization** course will guide the participants with respect to identification of the type and scale of heterogeneity that is most likely to affect the distribution of non-recovered mobile oil and gas in their subsurface reservoirs. The clastic depositional environment is particularly complex and many factors may cause a lower than expected recovery. Outcrops, cores, borehole images, logs, production test and reservoir level seismic can help provide detailed information about the architecture, fluid flow behaviour and the heterogeneities in a reservoir.



Participants

This **Petrogenium**. course is aimed at Geophysicists, geologists, petrophysicists and reservoir engineers involved in exploration, appraisal and development of clastic oil and gas accumulations. Participants should have a basic knowledge of clastic reservoir geology.



Learning Objectives

The clastic depositional environment is particularly complex and many factors may cause a lower than expected recovery. This course aims at:

- understanding of the depositional parameters defining the reservoir architecture,
- the use of tools to predict subsurface reservoir architecture and
- the impact of the heterogeneities on reservoir performance at different scales

Programme

DAY 1

Framework for reservoir modelling

- Framework for reservoir modelling
- Depositional processes and deposits.
- Geological features influencing hydrocarbon recovery.

DAY 2

Clastic Reservoir Architecture and Geologic controls on porosity and permeability.

- Clastic Reservoir Architecture, determination from seismic, logs, tests and core data
- Faults, fractures and the influence on fluid flow.
- Fractured Reservoir.
- Sealing capacity of faults;
- Effect of shale baffles on fluid flow.

DAY 3

Core acquisition, analysis and interpretation.

- Core and Log acquisition, analysis and interpretation.
- Assessing Facies and Rock types using Core data, extrapolation to non - cored wells
- Geologic controls on porosity and permeability;
- Estimating, measuring and predicting realistic values for cored and non - cored wells.

DAY 4

Core acquisition, analysis and interpretation.

- Computer modelling of reservoirs
- Converting Geological models to engineering models.
- Principles of up scaling (averaging) of Geological data and the application of Geostatistics.

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.

Contact Petrogenium.:

Email: training@petrogenium.com

Website: <https://www.petrogenium.com/training/>

Because Experience Matters

Programme

DAY 5

Capturing subsurface uncertainties in volume estimates.

- Capturing subsurface uncertainties in volume estimates.
- Economic Analysis.
- FDP planning and integration of fundamental building blocks (well configuration, positioning, spacing)

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