



Consulting and Training | Reach New Heights

Course Name

Integrated Petrophysics for Reservoir Characterisation IPRC (PPH02)

Sector Name

Oil, Gas and Chemical

Document Type

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Integrated Petrophysics for Reservoir Characterisation IPRC (PPH02)

Course Introduction

This training course is designed for petrophysicists, geologists, and engineers who work with log data, core data, and production data to develop facies and rock types for reservoir modeling. Building synergy between these disciplines is key to improving workflow efficiency and reducing risks during well planning.

Participants will learn how to utilize various data sources to support petrophysical and geological analysis of both historical and recent wells. They will develop skills to create reliable facies schemes and rock types that reservoir engineers can use for history matching. The course also focuses on understanding fractures—determining their significance and evaluating scenarios for either avoiding or developing fracture plays. Participants will gain the ability to handle different sedimentary models, various rock types, and the tools required to acquire accurate data. They will also learn to analyze multiple log types to identify facies and fractures and choose the best workflow for deriving rock types.

Training Course Methodology



This course is designed to be interactive and participatory, and includes various learning tools to enable the participants to function effectively and efficiently. The course will use sessions, exercises, case applications, and presentations about proven-by-practice methods, new insights, and ideas about the topic and its effects in the corporate world.

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Target Audience

- ✓ Reservoir and petroleum engineers
- ✓ Geoscientists and petrophysicists
- ✓ Exploration and production professionals
- ✓ Data analysts in subsurface evaluation
- ✓ Oil and gas field development specialists

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Learning Objectives

- ✓ Understand various facies models and their sedimentary environments.
- ✓ Develop petrophysical rock types that align with geological settings.
- ✓ Identify and classify different rock types.
- ✓ Design tool strings essential for accurate data acquisition in facies modeling.
- ✓ Analyze historical and recent data to detect and evaluate fractures.

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Course Outline

✓ 01 Day One

The Reservoir from the Overview of the Geological Framework

- ✓ Different types of plays, facies models, and their key petrophysical parameters
- ✓ Know the reservoir from a sedimentological/field point of view
- ✓ Study facies models
- ✓ Look at the present day and out crop analogues
- ✓ Define carbonate rock classification and structure
- ✓ Look at carbonate modern and outcrop examples

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Course Outline

✓ 02 Day Two

Basic (Conventional) Core Analysis - Facies, Porosity, Permeability, MCIP, and Borehole Image Analysis

- ✓ Define reservoir characterization
- ✓ Define porosity and permeability
- ✓ Explore the relationship between facies and porosity and permeability
- ✓ Understand thin sections, core, and MCIP data and their application
- ✓ Utilization of facies derived from core and mud logs
- ✓ Introduction to borehole images and electrofacies

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Course Outline

✓ 03 Day Three

Petrophysical Rock Types, Facies and Cross Plots, Look at the Data from Historical Log Data to the Latest Technology NMR, ECS, Sonic Scanner

- ✓ Understanding different methods of Rock Typing in clastics
- ✓ Understanding different methods of rock typing in carbonates
- ✓ Combining petrophysical cross-plots and facies
- ✓ Understanding advanced petrophysical logs
- ✓ Integrating petrophysical parameters

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Course Outline

✓ 04 Day Four

Introduce Petrophysical, Geological, and Reservoir Engineering Rock Types and Flow Units

- ✓ Understanding different flow units
- ✓ Designing rock typing workflows to honor geological data
- ✓ Creating robust facies for the geological model
- ✓ Principles of upscaling
- ✓ Incorporating production data into reservoir characterisation
- ✓ Impact of different completion designs on production

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Course Outline

✓ 05 Day Five

Introduction to Fractures and the Geological Model

- ✓ Introduction to fractures
- ✓ Recognizing fractures from core
- ✓ Identifying fractures from borehole images
- ✓ Locating fractures on mudlogs, openhole logs, and production data
- ✓ Impact of fractures on the geological model

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Sept. 20, 2026	Sept. 24, 2026	5 days	4250.00 \$	Egypt , Cairo
June 29, 2026	July 3, 2026	5 days	4250.00 \$	UAE , Dubai
Nov. 9, 2026	Nov. 13, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
March 29, 2027	April 2, 2027	5 days	4950.00 \$	Spain , Madrid

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