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Course Name

Advanced Petrophysics Integration of Core, Log Data and Machine Learning for Defining and Predicting

Sector Name

Oil, Gas and Chemical

Document Type

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Advanced Petrophysics Integration of Core, Log Data and Machine Learning for Defining and Predicting

Course Introduction

This course is essential for reservoir engineers, reservoir geologists, and Petrophysicists dealing with reservoir modeling. The course will provide the different techniques to establish hydraulic flow units from core data. Also, it will discuss the different methods to predict the defined HFU for uncored wells and intervals. Then define the saturation height function (SHF) for different HFUs, either on capillary-based or on log-based.

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Target Audience

- ✓ Reservoir Engineers
- ✓ Reservoir Geologists
- ✓ and Petrophysicists.

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Learning Objectives

- ✓ Provide the different techniques to establish hydraulic flow units from core data: RQI, Winland R35, and Pittman.
- ✓ Discuss and practice the different methods to propagate the defined HFU for uncored wells and intervals. NN, Fuzzy Logic, MRL, SOM, Cluster Analysis, PCA, Contingency Tables.
- ✓ Establish the saturation height function (SHF) for different HFUs, either on capillary or log-based, with reconciliation with logs.

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Course Outline

✓ **01 Day One**

Data Preparation and QC

- ✓ Data Available Loading
- ✓ Log Data Editing and Create Flags
- ✓ Pc Data QC and Corrections
- ✓ Data Visualization

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Course Outline

✓ 02 Day Two

Generate HFU

- ✓ RQI
- ✓ Winland R35
- ✓ Pittman

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Course Outline

✓ **03 Day Three**

Predicate HFU & Permeability

- ✓ Principal Component Analysis
- ✓ Multiple Linear Regression
- ✓ Fuzzy Logic
- ✓ Cluster Analysis
- ✓ Self-Organizing Maps
- ✓ Neural Network
- ✓ Contingency Table

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Course Outline

✓ **04 Day Four**

Generate Saturation Height Modeling

- ✓ Fitting and Smoothing
- ✓ Averaging
- ✓ Reconciliation with Log Data

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Course Outline

✓ 05 Day Five

Group discussion and Exercises using Software

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Dubai
Sept. 21, 2026	Sept. 25, 2026	5 days	4950.00 \$	England , London
Dec. 28, 2026	Jan. 1, 2027	5 days	4250.00 \$	UAE , Dubai
June 13, 2027	June 17, 2027	5 days	4250.00 \$	KSA , Al Khobar

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