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# Applied Reservoir Petrophysics and Characterization



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## Table of Contents:

- Introduction
- Objectives
- Who should attend?
- Course Outline





## **Course Outline:**

#### Day 1

- Welcome and Introduction
- Process and Introduction Case Studies
- Workshop Using the Gameboard Method
- Geological Framework
- Integrated Porosity, Permeability and Relative Permeability (Day focus is on core)
- Workshop Facies and Petrophysical Rock Types and Designing a core data program
- Workshop Quality assurance for routine core analysis

#### Day 2

- Intgrated Porosity (continued) Log porosity
- Workshop Log based porosity and cross plots
- An overview of permeability and relative permeability
- Workshop Designing a series of relative permeability tests
- Petrophysical Rock Types and Capillary Pressure Concepts
- Workshop Using capillary pressure concepts to distribute initial fluids
- Workshop Creating a Winland Plot
- Workshop Creating a Excel Basic QuickScan Analysis

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### Day 3

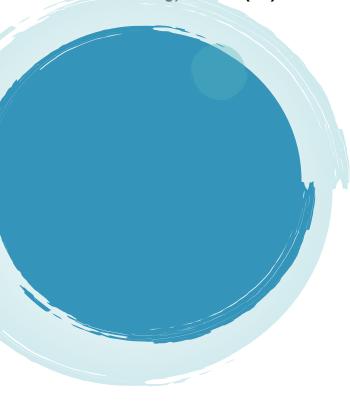
- 3-Line Log Analysis "quicklook analysis", Log
  Based Water Saturation, Electrical Rock
  Properties and Capillary Pressure
- Workshop 3-Line Log Analysis and
  Interpretation
- Workshop Interpreting electrical rock properties
- Workshop Selecting a water saturation model

#### Day 4

- Core-Log Integration and Using Merecury Injection Capillary Pressure Data to Confirm
  Petrophysical Rock Types, Clays and Pore Geometry
- Workshop Interpreting Petrophysical Rock Types from high pressure mercury injection data
- Workshop



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## Day 5

- Flow units and integrated petrophysical interpretations
- Workshop
- Final Workshop -Core-Log Petrophysical and QuickScan Well Evaluation

# Who should attend?

Petro physicists in the Oil & Gas Industry