



## Core Analysis

### MODULE

#### About the Skill Module

This skill module introduces the purpose of, processes, and tools for basic core measurements and special core measurements; and overviews Petrography and Mineralogy Data from cores as well as unconventional core analysis.

[See example online learning module](#)

#### Target Audience

Geoscientists and engineers with less than twelve months experience using petrophysical data, Ideal for other technical staff and non-technical staff (e.g., management, drilling operations, technical support staff, finance, legal, IT, supply chain management, and others) at all experience levels wanting a basic background in the petrophysics discipline. This skill module lays the foundation for effective communications between the Subsurface Team and everyone else in the E&P Industry including Service Company and Government employees.

#### You Will Learn

Participants will learn how to:

- Outline techniques for measurement of porosity, permeability, and saturation from cores
- Identify rules for cutting core plugs, cleaning, and preparing
- Define special core analysis and its application to petrophysics
- Explain the usage of special core analysis to determine electrical properties (m, n, Qv) and procedures to assure quality
- Describe the importance of capillary pressure and wettability; how special core analysis can determine relative permeability curves and residual saturations
- Explain basic concepts of thin section, SEM, and X-ray diffraction
- Describe scanning electron microscopy's purpose
- Define terms of core analysis, the mineralogy of the rocks, and differences when taking measurements
- Identify differences between unconventional and routine measurements and know when to apply each
- Define TOC, Maturity, and Kerogen type of source rocks

#### Product Details

Categories: Upstream

Disciplines: Petrophysics

Levels: Basic

Product Type: Individual Skill Module

Format: On-Demand

Duration: 2.5 hours (approx.)

**\$250.00**