

## Conventional and Special Core Analysis

*Online*

*13 - 24 April 2025*

UK Training

# PARTNER



# Conventional and Special Core Analysis

Code: OG28 From: 13 - 24 April 2025 City: Online Fees: 4000 Pound

## Introduction

Welcome to the Conventional and Special Core Analysis course, designed to provide participants with an in-depth and advanced understanding of core analysis techniques in geology and reservoir engineering. This course focuses on the latest technologies and methods in core analysis, enabling participants to interpret and analyze core data effectively. Through a balanced approach that includes theoretical principles and practical applications, participants will gain comprehensive insights into both conventional core analysis and special core analysis SCAL methods, which are essential for accurate reservoir evaluation and development.

## Course Objectives

- Understand the significance of core analysis in evaluating and developing reservoirs.
- Introduce participants to the latest techniques and tools used in conventional and special core analysis.
- Develop advanced skills in interpreting and analyzing core data to obtain crucial reservoir parameters.
- Explore how core analysis results can be integrated with other reservoir characterization data.
- Gain insights into the challenges and limitations of various core analysis techniques.
- Improve decision-making in reservoir management and development based on core analysis results.

## Course Outlines

### Day 1: Introduction to Core Analysis

- Overview of core analysis and its role in geology and reservoir studies.
- Types of cores and core samples.
- Core analysis workflows and laboratory techniques.

### Day 2: Core Sampling and Preparation

- Core sampling methods and critical considerations.
- Best practices for core preservation.
- Core handling, labeling, and storage procedures.

### Day 3: Porosity Analysis

- Introduction to porosity and its importance in reservoir evaluation.
- Techniques for porosity determination: conventional and advanced methods.
- Interpretation and analysis of porosity data.

### Day 4: Permeability Analysis



- Techniques for measuring permeability: laboratory and field methods.
- Factors influencing permeability measurements.
- Interpretation and analysis of permeability data.

### Day 5: Saturation Analysis

- Methods for saturation determination: capillary pressure and resistivity measurements.
- Analysis and interpretation of saturation data.
- Evaluation of wettability and its impact on saturation analysis.

### Day 6: Special Core Analysis Techniques

- Introduction to special core analysis SCAL.
- Relative permeability measurements and interpretation.
- Core flooding experiments and data analysis.

### Day 7: Core-Log Integration

- Integrating core data with well logs.
- Petrophysical analysis and reservoir characterization.
- Determining rock and fluid properties using core and log data.

### Day 8: Core Data Interpretation

- Quantitative interpretation of core data.
- Assessing reservoir quality and identifying flow units.
- Estimating key reservoir parameters porosity, permeability, saturation, etc..

### Day 9: Case Studies and Practical Applications

- Analyzing core data from diverse reservoir types.
- Case studies demonstrating core analysis application in reservoir characterization.
- Practical exercises and workshops on data interpretation and decision-making.

### Day 10: Advanced Topics and Future Directions

- Emerging technologies in core analysis.
- Challenges and limitations of current techniques.
- Future trends and research directions in core analysis.

### Conclusion

Upon completing this course, participants will have an advanced understanding of both conventional core analysis and special core analysis SCAL techniques. They will be able to apply these skills to analyze geological data, integrate findings with other reservoir characterization tools, and make informed decisions in reservoir management and development. This course is ideal for geologists, reservoir engineers, and core analysis technicians, providing the essential skills and insights needed to excel in this critical field.



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