

## Integrated Petrophysics for Reservoir Characterization

*Cairo (Egypt)*

*5 - 9 October 2025*

UK Training

# PARTNER



# Integrated Petrophysics for Reservoir Characterization

Code: OG28 From: 5 - 9 October 2025 City: Cairo (Egypt) Fees: 4000 Pound

## Introduction

In the rapidly evolving field of reservoir engineering, integrated petrophysics is crucial for accurately characterizing subsurface reservoirs. This course offers an in-depth exploration of advanced petrophysical techniques and their application in reservoir characterization. By integrating geological, geophysical, and engineering data, participants will learn to enhance their reservoir models and improve decision-making processes. The course combines theoretical knowledge with practical, hands-on exercises to equip professionals with the skills needed to tackle complex reservoir challenges.

## Course Objectives

- Understand Integrated Petrophysical Concepts: Gain a comprehensive understanding of the principles of petrophysics and its integration with geological and geophysical data for effective reservoir characterization.
- Apply Advanced Analytical Techniques: Learn and apply advanced petrophysical methods, including core analysis, well-log interpretation, and petrophysical modeling.
- Enhance Reservoir Models: Develop and refine reservoir models using integrated data to improve accuracy in reservoir predictions and management.
- Utilize Modern Tools and Software: Familiarize yourself with the latest software tools and technologies used in integrated petrophysics and reservoir characterization.
- Solve Real-World Problems: Apply learned techniques to case studies and real-world scenarios to address complex reservoir characterization issues.

## Course Outlines

### Day 1: Introduction to Integrated Petrophysics

- Overview of petrophysics and its role in reservoir characterization
- Integration of geological, geophysical, and engineering data
- Review of basic petrophysical concepts and terminology
- Introduction to modern petrophysical tools and software

### Day 2: Advanced Petrophysical Techniques

- Core analysis and its significance in petrophysical studies
- Advanced well-log interpretation methods
- Integration of petrophysical data with seismic and geological data
- Practical exercises on core sample analysis and well-log interpretation

### Day 3: Reservoir Modeling and Characterization



- Building and refining reservoir models using integrated data
- Petrophysical modeling techniques and their applications
- Enhancing reservoir characterization through data integration
- Hands-on sessions with reservoir modeling software

#### Day 4: Modern Tools and Software in Petrophysics

- Overview of current software tools for petrophysical analysis
- Case studies on the application of software tools in reservoir characterization
- Practical exercises using industry-standard petrophysical software
- Evaluation of software capabilities and limitations

#### Day 5: Application to Real-World Scenarios

- Case studies and practical exercises on reservoir characterization
- Problem-solving sessions focused on real-world challenges
- Review of key learnings and best practices for integrated petrophysics



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