BLACKBIRD FOR TRAINING

Conventional and Special Core Analysis

28 March – 8 April 2027
Cairo (Egypt)

UK Traininig
PARTNER



Conventional and Special Core Analysis

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Introduction

Welcome to the Conventional and Special Core Analysis course, a comprehensive program designed to equip participants with advanced knowledge and practical skills in core analysis techniques. This course delves into both conventional core analysis and special core analysis SCAL, providing a thorough understanding of core sample analysis in the fields of geology and reservoir engineering. Participants will explore the types of core analysis, including digital core analysis, and learn how to interpret and integrate data for effective reservoir evaluation and development. By blending theoretical foundations with hands-on applications, this course answers the question, what is core analysis, and illustrates its critical role in reservoir management.

Course Objectives

- Understand the core meaning and its significance in evaluating and developing reservoirs.
- Introduce participants to cutting-edge core analysis techniques used in both conventional core and special core analysis.
- Develop advanced skills in interpreting core data to extract vital reservoir parameters.
- Learn how to integrate core analysis results with other reservoir characterization data.
- Gain insights into the challenges and limitations of core business analysis, core problem analysis, and core cause analysis.
- Enhance decision-making in reservoir management based on core sample analysis outcomes.

Course Outlines

Day 1: Introduction to Core Analysis

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

Day 2: Core Sampling and Preparation

- Methods for core sampling and critical considerations.
- Best practices for core preservation and handling.
- Labeling and core storage procedures.



Day 3: Porosity Analysis

- Introduction to porosity and its relevance in reservoir evaluation.
- Techniques for porosity determination, from conventional core analysis to advanced methods.
- Interpretation of porosity data.

Day 4: Permeability Analysis

- Techniques for measuring permeability, both in the lab and the field.
- Factors influencing permeability measurements.
- Analysis of permeability data.

Day 5: Saturation Analysis

- Methods for saturation determination, including capillary pressure and resistivity measurements.
- Evaluation of wettability and its influence on saturation.
- Data interpretation techniques.

Day 6: Special Core Analysis Techniques

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

Day 7: Core-Log Integration

- Integrating core data with well logs for comprehensive petrophysical analysis.
- Determining rock and fluid properties using combined data.

Day 8: Core Data Interpretation

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

Day 9: Case Studies and Practical Applications

- Analyzing core data from diverse reservoir types.
- Case studies showcasing core analysis applications in reservoir characterization.
- Practical workshops focused on data interpretation and decision-making.



Day 10: Advanced Topics and Future Directions

- Emerging technologies in digital core analysis and their impact on the field.
- Challenges and limitations of current core analysis techniques.
- Future trends and research directions in core analysis.

Why Attend this Course: Wins & Losses!

- Master both conventional core analysis and special core analysis techniques.
- Gain practical skills in core problem analysis and core cause analysis, enhancing your ability to troubleshoot complex reservoir issues.
- Learn to integrate core data with digital tools, unlocking the effective core potential of modern technologies.
- Improve decision-making skills in reservoir management by understanding the nuances of core business analysis.

Conclusion

By the end of this course, participants will have a deep understanding of both conventional core analysis and special core analysis SCAL. They will be proficient in applying advanced core analysis techniques to geological data, integrating findings with other reservoir characterization tools, and making informed decisions in reservoir management. Ideal for geologists, reservoir engineers, and core analysis technicians, this course provides the essential skills and insights needed to excel in the field.

Unlock the effective core potential of your expertise and elevate your career with this essential training.

