

Reservoir Quality Analysis: Sandstone & Carbonate Rocks

Oil & Gas Engineering
Geneva (Switzerland)
21 - 25 Jul 2025

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A photograph of chess pieces on a checkered board. In the foreground, a large gold king piece stands prominently. To its left are two silver pieces: a pawn and a knight. The background features concentric circles and a checkered pattern, suggesting a strategic or competitive theme.

Reservoir Quality Analysis: Sandstone & Carbonate Rocks

Ref: 321627_142341 **Date:** 21 - 25 Jul 2025 **Location:** Geneva (Switzerland) **Fees:** 4700 Euro

Course Description

This intensive 5-day course provides a comprehensive understanding of reservoir quality analysis for sandstone and carbonate rock types. Participants will learn advanced techniques in petrophysical analysis, reservoir characterization, and quality assessment. The course combines theoretical knowledge with practical applications, using real-world examples from significant siliciclastic and carbonate reservoirs.

Learning Objectives

- Understand the fundamental principles of reservoir quality in sandstone and carbonate formations
- Master advanced techniques in petrophysical analysis and interpretation
- Develop skills in integrated reservoir characterization and geological modeling
- Learn to assess and predict reservoir quality using various analytical tools
- Gain practical experience in core sample analysis and data interpretation

Course Modules

Day 1: Introduction to Reservoir Quality Analysis

- Fundamentals of reservoir rocks and their properties
- Overview of sandstone and carbonate rock types
- Introduction to porosity and permeability concepts
- Basics of reservoir quality assessment techniques

Day 2: Sandstone Reservoir Quality

- Sandstone composition, texture, and classification
- Diagenetic processes affecting sandstone reservoirs
- Pore types and pore network analysis in sandstones
- Case studies of sandstone reservoir quality

Day 3: Carbonate Reservoir Quality

- Carbonate rock types and classification systems
- Diagenesis and its impact on carbonate reservoir quality
- Porosity types and permeability in carbonate rocks
- Carbonate reservoir quality case studies

A graphic of a chessboard with several chess pieces (a king, a queen, a rook, and a pawn) in gold and silver. The text 'UK Training PARTNER' is overlaid on the board.

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Day 4: Advanced Petrophysical Analysis

- Core analysis techniques and interpretation
- Well log analysis for reservoir quality assessment
- Integration of core and log data
- Pore-throat size distribution and capillary pressure analysis

Day 5: Integrated Reservoir Characterization

- Geological modeling of reservoir quality
- Upscaling petrophysical properties
- Reservoir quality prediction techniques
- Integration of reservoir quality data in field development planning

Practical Wins for Participants

- Ability to conduct comprehensive reservoir quality assessments
- Enhanced skills in interpreting complex petrophysical data
- Improved decision-making in reservoir characterization and modeling
- Practical experience in applying advanced analytical techniques to real-world scenarios

A graphic of a chessboard with several chess pieces. A large gold king piece is in the foreground, with a silver pawn and a silver knight behind it. In the background, there are concentric circles and the text 'UK Training PARTNER'.

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