

Advanced Well Log Interpretation for Oil & Gas Professionals

Oil & Gas Engineering
Toronto (Canada)
25 - 29 Aug 2025

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Advanced Well Log Interpretation for Oil & Gas Professionals

Ref: 321628_142377 **Date:** 25 - 29 Aug 2025 **Location:** Toronto (Canada) **Fees:** 4700 **Euro**

Course Description

This comprehensive 5-day course equips oil and gas professionals with advanced skills in well log interpretation. Participants will learn to analyze complex logs, evaluate reservoir properties, and make informed decisions for optimal exploration and production. The course covers both conventional and unconventional logging tools, petrophysical evaluation techniques, and reservoir characterization methods.

Learning Objectives

- Master advanced techniques for interpreting wireline and LWD logs
- Evaluate complex lithologies and fluid properties using modern logging tools
- Apply petrophysical models to characterize reservoirs accurately
- Integrate log data with other subsurface information for comprehensive formation evaluation
- Develop strategies for optimizing well placement and production based on log analysis

Course Modules

Day 1: Fundamentals and Advanced Logging Tools

- Review of basic well logging principles
- Advanced resistivity and nuclear logging tools
- Acoustic and NMR logging techniques
- Image log interpretation and applications

Day 2: Petrophysical Evaluation Techniques

- Advanced porosity and permeability determination
- Saturation models for complex reservoirs
- Clay volume and mineralogy analysis
- Thin bed evaluation methods

Day 3: Formation Evaluation in Challenging Environments

- Carbonate reservoir characterization
- Shale gas and tight oil formation evaluation
- Fractured reservoir analysis
- Heavy oil and tar sand log interpretation

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

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Day 4: Integration of Log Data with Other Subsurface Information

- Core-log integration techniques
- Seismic-well tie methods
- Geosteering and real-time logging applications
- Uncertainty analysis in log interpretation

Day 5: Advanced Applications and Case Studies

- Reservoir quality assessment and pay zone identification
- Well log-based geomechanical analysis
- Production log interpretation for reservoir management
- Integrated case studies and practical exercises

Practical Wins for Participants

- Ability to interpret complex well logs accurately for improved reservoir characterization
- Enhanced skills in integrating multiple data sources for comprehensive formation evaluation
- Improved decision-making capabilities for well placement and production optimization
- Increased confidence in applying advanced log interpretation techniques to challenging reservoirs

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