

Well Testing and Pressure Transient Analysis Masterclass

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Paris (France)

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Well Testing and Pressure Transient Analysis Masterclass

2022-2023 **1580-1730** **6326** **Location:** Paris (France) **Fees:** 5900 GBP

Why This Course

Accurate reservoir evaluation depends heavily on reliable well testing and precise pressure transient analysis. In complex reservoirs — whether conventional, fractured, or unconventional — the ability to correctly design tests and interpret pressure data can significantly influence field development strategies, production optimization, and long-term asset value.

This intensive five-day program provides a structured and practical approach to well testing and pressure transient analysis. Participants will strengthen their understanding of fluid flow behavior, test design, data interpretation, and advanced analytical techniques. By combining theory with real-world case studies and applied exercises, the course ensures immediate applicability in field and reservoir engineering environments.

What You'll Learn and Practice

By attending this program, you will be able to:

- Understand the principles and practical applications of pressure transient testing.
- Design and execute well tests tailored to various reservoir conditions.
- Interpret pressure data using analytical, diagnostic, and numerical methods.
- Apply advanced techniques to complex reservoirs, including fractured and unconventional systems.
- Evaluate well and reservoir performance to support development decisions.

The Program Flow

Day 1: Fundamentals of Well Testing

- Introduction to well testing and pressure transient analysis
- Fluid flow in porous media and core theoretical concepts
- Overview of well test types and operational applications
- Designing and executing effective well tests

Day 2: Pressure Transient Analysis Techniques

- Analytical solutions across different flow regimes
- Type curve matching and diagnostic plotting methods
- Pressure derivative analysis and interpretation
- Understanding wellbore storage and skin effects

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A graphic of a chessboard with several chess pieces (a king, a queen, a rook, and a pawn) positioned on it. The board is white and black, and the pieces are gold and silver.

Day 3: Advanced Well Test Interpretation

- Analysis of heterogeneous and naturally fractured reservoirs
- Testing horizontal and multi-lateral wells
- Interference and pulse testing techniques
- Evaluation of hydraulically fractured wells

Day 4: Specialized Tests and Applications

- Drill stem testing and formation evaluation
- Injection well testing and falloff analysis
- Multi-layer and commingled reservoir testing
- Gas well testing methodologies and interpretation

Day 5: Integration and Practical Applications

- Integrating well test data with broader reservoir characterization workflows
- Quality control procedures and uncertainty assessment
- Case studies based on real field data
- Advanced software tools for pressure transient analysis

Individual Impact

Participants will leave the program with:

- The capability to confidently design and interpret well tests across diverse reservoir scenarios.
- Stronger analytical skills for reservoir characterization and performance evaluation.
- Improved decision-making support for field development and production strategies.
- Practical proficiency in modern well test analysis tools and interpretation techniques.

Organizational Impact

Organizations will benefit from:

- More accurate reservoir characterization and reduced subsurface uncertainty.
- Better-informed development planning and production optimization decisions.
- Improved quality and consistency in well test interpretation practices.
- Enhanced technical capability within reservoir and production teams.

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

Training Methodology

- Instructor-led technical sessions grounded in reservoir engineering practice
- Step-by-step analytical demonstrations and diagnostic interpretation exercises
- Hands-on case studies using real-world pressure data
- Guided discussions on operational challenges and field applications

Beyond the Course

By the end of the five days, participants will be equipped to:

- Design well testing programs aligned with reservoir objectives.
- Apply structured and advanced pressure transient analysis techniques.
- Integrate test results into comprehensive reservoir management strategies.
- Contribute effectively to optimizing field performance and long-term asset development.

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