

Well Testing and Pressure Transient Analysis Masterclass

Oil & Gas Engineering
Düsseldorf (Germany)
21 - 25 Jul 2025

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The background of the entire page features a chessboard with several chess pieces. In the foreground, a large gold king piece and a silver pawn are prominent. Behind them, another silver pawn and a gold pawn are visible. The background is decorated with concentric circles emanating from the center, creating a ripple effect.

Well Testing and Pressure Transient Analysis Masterclass

Ref: 321580_141267 **Date:** 21 - 25 Jul 2025 **Location:** Düsseldorf (Germany) **Fees:** 4200 Euro

Course Description

This intensive 5-day course provides a comprehensive understanding of well testing and pressure transient analysis techniques. Participants will learn to design, conduct, and interpret various well tests to characterize reservoirs and evaluate well performance. The course covers both theoretical concepts and practical applications, with hands-on exercises using real-world data.

Learning Objectives

- Understand the principles and applications of pressure transient testing
- Design and execute various well tests for different reservoir scenarios
- Interpret pressure transient data using analytical and numerical methods
- Apply advanced techniques for complex reservoir systems and unconventional resources
- Evaluate well and reservoir performance using pressure transient analysis

Course Modules

Day 1: Fundamentals of Well Testing

- Introduction to well testing and pressure transient analysis
- Fluid flow in porous media and well testing theory
- Types of well tests and their applications
- Well test design and execution

Day 2: Pressure Transient Analysis Techniques

- Analytical solutions for various flow regimes
- Type curve analysis and diagnostic plots
- Pressure derivative analysis
- Wellbore storage and skin effects

Day 3: Advanced Well Test Interpretation

- Heterogeneous and naturally fractured reservoirs
- Horizontal and multi-lateral well testing
- Interference and pulse testing
- Hydraulically fractured well analysis

Day 4: Specialized Tests and Applications

A graphic of a chessboard with several chess pieces (king, queen, pawns) on it, with concentric circles radiating from behind the king piece.

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- Drill stem tests and formation testing
- Injection well testing and falloff analysis
- Multi-layer and commingled reservoir testing
- Gas well testing and analysis

Day 5: Integration and Practical Applications

- Integrating well test data with other reservoir characterization methods
- Uncertainty analysis and quality control
- Case studies and real-world examples
- Advanced software applications for pressure transient analysis

Practical Wins for Participants

- Ability to design and interpret well tests for various reservoir scenarios
- Improved skills in reservoir characterization and performance evaluation
- Enhanced decision-making capabilities for field development and management
- Proficiency in using modern well test analysis software and techniques

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