



Consulting and Training | Reach New Heights

Course Name

Well Test Design and Analysis Masterclass

Sector Name

Oil, Gas and Chemical

Document Type

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Well Test Design and Analysis Masterclass

Course Introduction

In today's complex oil and gas environments, the ability to extract accurate, actionable insights from well testing is more critical than ever. **Well Test Design and Analysis Masterclass** is a comprehensive five-day training program tailored for upstream professionals who are involved in designing, executing, or interpreting well tests as part of field development, reservoir evaluation, or production optimization.

This course delves into the entire lifecycle of a well test—from planning and design, through operational execution, to interpretation and integration with reservoir models. It balances practical field applications with theoretical foundations to ensure participants not only understand how to perform well in testing but also **why** it matters in the broader reservoir and production context.

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Target Audience

- ✓ Petroleum Engineers
- ✓ Reservoir Engineers
- ✓ Well Testing Engineers
- ✓ Production Engineers
- ✓ Field Operations Supervisors
- ✓ Geoscientists involved in reservoir evaluation
- ✓ Oil & Gas technical professionals involved in well test planning and analysis

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Learning Objectives

- ✓ Understand the principles and objectives of well testing
- ✓ Design well tests suitable for different reservoir types and conditions
- ✓ Execute well testing operations with safety and data quality in mind
- ✓ Apply pressure transient analysis techniques using modern tools
- ✓ Interpret well test results to derive reservoir parameters
- ✓ Integrate test analysis with reservoir models and field development planning
- ✓ Troubleshoot data anomalies and recognize operational challenges

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Course Outline

✓ DAY 01

Fundamentals of Well Testing

- ✓ Introduction to well testing: purpose and types
- ✓ Reservoir fluid flow principles
- ✓ Key test types: DST, build-up, drawdown, injection, interference, and productivity
- ✓ Wellbore and reservoir boundaries overview
- ✓ Test design objectives based on the reservoir lifecycle
- ✓ Equipment overview and safety considerations
- ✓ **Workshop:** Matching test types with reservoir objectives

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Course Outline

✓ Day 02

Test Planning and Execution

- ✓ Defining test objectives and selecting methodology
- ✓ Surface and downhole equipment design
- ✓ Pre-test planning and logistics
- ✓ Data acquisition systems and instrumentation
- ✓ Health, Safety & Environment (HSE) in well testing
- ✓ Test execution phases and real-time monitoring
- ✓ **Case Study:** Designing a safe and effective test plan

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Course Outline

✓ Day 03

Pressure Transient Analysis (PTA) - Theory and Concepts

- ✓ Principles of pressure transient behavior
- ✓ Flow regimes: radial, spherical, linear
- ✓ Wellbore storage and skin effect
- ✓ Diagnostic plots: semilog, log-log, and derivative analysis
- ✓ Data quality control and validation
- ✓ Boundary effects and reservoir heterogeneity
- ✓ **Exercise:** Reading and interpreting basic well test charts

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Course Outline

✓ Day 04

Advanced Interpretation and Modeling

- ✓ Interpretation techniques: Horner plot, type curve matching
- ✓ Numerical vs analytical models
- ✓ Fractured wells and multilayer reservoirs
- ✓ Integration with reservoir simulation
- ✓ Handling complex wellbore/reservoir conditions
- ✓ Use of software tools (e.g., Saphir, KAPPA, WellTest, PanSystem – conceptual)
- ✓ **Workshop:** Analyzing real field data using diagnostic plots

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Course Outline

✓ Day 05

Operational Challenges, Reporting & Applications

- ✓ Common testing issues and troubleshooting
- ✓ Production testing vs pressure testing
- ✓ Role of well testing in reservoir management
- ✓ Communicating test results to stakeholders
- ✓ Final reporting and best practices
- ✓ Regulatory and compliance considerations
- ✓ **Group Activity:** Preparing and presenting a well test report based on a given case

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Sept. 28, 2026	Oct. 2, 2026	5 days	4950.00 \$	France , Paris
Nov. 2, 2026	Nov. 6, 2026	5 days	4250.00 \$	UAE , Dubai
May 10, 2027	May 14, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
April 4, 2027	April 8, 2027	5 days	4250.00 \$	KSA , Jeddah

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