



Consulting and Training | Reach New Heights

Course Name

LWD & MWD Tool Physics & Applications

Sector Name

Oil, Gas and Chemical

Document Type

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LWD & MWD Tool Physics & Applications

Course Introduction

This course will introduce a solid and in-depth understanding of different MWD-LWD technologies and their main applications on the geosteering process using the advanced real-time drilling applications. Attendees will approach the different LWD tools and their usage on geosteering techniques, i.e., model-based, start-based, seismic image, borehole images, and the most advanced remote boundary detection tools.

During this training, you will be professionally learn how to obtain MWD-LWD integrated log data and their applications, and hence perform a successful geosteering job, drill your well safely, and hence get the maximum reservoir exposure. All will be done through professional guided practical simulation models and real case studies.

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Target Audience

- ✓ Process design
- ✓ Unit Operator
- ✓ Environmental
- ✓ Process safety engineer
- ✓ Gasoline blender engineer
- ✓ Lab supervisor
- ✓ Supply chain engineer
- ✓ Distillates analyst
- ✓ Models engineer
- ✓ Chemical Operator
- ✓ Chemical Plant Operator
- ✓ Chemical Process Technician
- ✓ Control Room Supervisor
- ✓ Gas Plant Process Operator
- ✓ Gas Production Operator
- ✓ Gas Terminal Operations and Storage
- ✓ Gathering Pipeline engineer
- ✓ Oil Terminal / Storage engineer
- ✓ Pipeline Maintenance / Equipment / Compliance / Repair
- ✓ Pipeline Testing / Technician / Supervisor / Safety
- ✓ Plant Equipment Operator

- ✓ Plant Operations Technician
- ✓ Plant Shutdown
- ✓ Plant Supervisor
- ✓ Power Distribution
- ✓ Power Plant Manager
- ✓ Process Supervisor
- ✓ Refinery Operations Technician / Manager
- ✓ Terminal Operator / Manager
- ✓ Utilities Operator

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Learning Objectives

- ✓ To get familiar with MWD-LWD tools, physics, operation, and applications.
- ✓ To learn MWD-LWD Principles- data transmission.
- ✓ To integrate LWD log data for optimum reservoir characterization.
- ✓ To understand what geosteering is and why we do directional drilling.
- ✓ To be familiar with pre-job, Real-time, and post-job procedures.
- ✓ To know the proper way of placing a well and maintain maximum reservoir coverage.
- ✓ To understand the difference between conventional and unconventional geosteering.
- ✓ To know the methodology of a successful geosteering job.
- ✓ To practice and apply different case studies and different reservoir challenges

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Course Outline

✓ **01 Day One**

General Introduction

- ✓ Types of drilled wells.
- ✓ Horizontal wells construction and horizontal wells sidetracking.
- ✓ Directional drilling tools, methodology, and operations.
- ✓ Main MWD - LWD tools and technology.
- ✓ MWD-LWD Principles- data transmission.
- ✓ LWD imaging tools - overview of common industry tools
- ✓ Principles of tool operation and best practices for logging in horizontal wells

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Course Outline

✓ **02 Day Two**

LWD Resistivity tools

- ✓ Laterolog Resistivity measurement
- ✓ Introduction to resistivity measurement
- ✓ Azimuthal data from the LWD

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Course Outline

✓ **03 Day Three**

LWD borehole imaging tools

- ✓ Measurement Principles
- ✓ Tool Types & operations
- ✓ Resolution understating
- ✓ Cutting up & Down (Smile & Sad)

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Course Outline

✓ 04 Day Four

Well Placement Process: Prejob, Real-time and Post job.

- ✓ Plan well preparation and reference wells correlation.
- ✓ Conventional and unconventional geosteering techniques.
- ✓ Principles of preparing and interpreting the azimuthally data (including borehole images).
- ✓ Dip calculation and computations, i.e. formation dip and recommended bit inclination.
- ✓ Layer model initiation till the process of decisions assessment.

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Course Outline

✓ 05 Day Five

Fundamentals of multi-wells geosteering

- ✓ Case studies for geosteered wells in different reservoirs types with different challenges.
- ✓ Practical simulations and applications.
- ✓ Case studies in different reservoirs types with different challenges.
- ✓ Practical simulations and applications.
- ✓ Round table, course assessment and open discussion.

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Aug. 24, 2026	Aug. 28, 2026	5 days	4950.00 \$	England , London
Oct. 26, 2026	Oct. 30, 2026	5 days	4250.00 \$	UAE , Dubai
Nov. 22, 2026	Nov. 26, 2026	5 days	4250.00 \$	Oman , Muscat
June 22, 2026	June 26, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
April 5, 2027	April 9, 2027	5 days	4250.00 \$	UAE , Dubai

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