



Consulting and Training | Reach New Heights

Course Name

Drilling Optimization & Well Planning

Sector Name

Oil, Gas and Chemical

Document Type

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Drilling Optimization & Well Planning

Course Introduction

Drilling is an essential and expensive part of the oil and gas industry. Improving the drilling operation carries the greatest interest for the oil and gas operating companies.

The oil and gas drilling industry is changing rapidly in the areas of technology, safety, environment, management, and contractual relationships. Drilling operations must confront extremely difficult technical, safety, and control problems. This course is designed to provide participants with an up-to-date overview of the practical applications of oil and gas drilling techniques. The course covers drilling programming and well control planning. Type of drilling (deviated, horizontal and multilateral) drill bit selection and hydraulics, drilling fluid program, casing and cement operations, well control operations, drilling problems & solutions, well completion and reporting procedures.

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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

- ✓ Review drilling data and plan the well from spud to production phase.
- ✓ Well-designed and optimized drilling & work-over schedule
- ✓ Incorporate the completion plans into the drilling plan
- ✓ Drill a well cost-effectively and maximize penetration rate.
- ✓ Evaluate the stuck pipe problem and avoid potential problems
- ✓ Evaluate and maintain drilling fluids
- ✓ Optimize hole cleaning
- ✓ Design casing, drill string, and BOP/Wellheads
- ✓ Evaluate and implement cementing programs
- ✓ Design and implement bit and hydraulics programs.
- ✓ Incorporate directional drilling and deviation control
- ✓ Recognize and evaluate well-controlled problems
- ✓ Production system optimization.

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Course Outline

✓ 01 Day One

Module 01: Overall Drilling Process:-

- ✓ Introduction
- ✓ Types of rigs
- ✓ Rig equipment
- ✓ Methods of drilling
- ✓ Well proposal & design
- ✓ Well drilling program
- ✓ Video film CD-DVD (How to drill)

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Course Outline

✓ 02 Day Two

Module 02: Well planning and operations:

- ✓ Making Hole & Bit Selection
- ✓ Drilling Fluids (Mud Types)
- ✓ Casing design
- ✓ Casing Operation
- ✓ Cement design
- ✓ Cementing Operation
- ✓ Case study

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Course Outline

✓ 03 Day Three

Module 03: Drilling Engineering

- ✓ Type of wells
- ✓ Design Deviation, Horizontal and Multilateral Wells
- ✓ Optimize drilling and workover operations

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Course Outline

✓ **04 Day Four**

Well completion

- ✓ Well testing and setup well on production
- ✓ Production system optimization

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Course Outline

✓ 05 Day Five

Module 04: Hole Problems & Prevention:

- ✓ Lost Circulation
- ✓ Stuck Pipe
- ✓ Kick & well control
- ✓ Shale problems
- ✓ Fishing
- ✓ Problems and Practical Exercises

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 19, 2027	April 23, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
Nov. 2, 2026	Nov. 6, 2026	5 days	4950.00 \$	Netherlands , Amsterdam
Nov. 22, 2026	Nov. 26, 2026	5 days	4250.00 \$	Oman , Muscat
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Dubai
July 19, 2027	July 23, 2027	5 days	4250.00 \$	UAE , Dubai
Sept. 14, 2026	Sept. 18, 2026	5 days	2150.00 \$	Virtual , Online

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