

Training Title

ADVANCED DRILLING AND WELL COMPLETION TECHNOLOGY

Training Duration

5 days

Training Venue and Dates

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|--------------|---|----------|--------------------------|----------------|-------------------------------|
| DE011 | Advanced Drilling and well completion technology | 5 | 24 – 28 June 2024 | \$6,500 | Amsterdam, Netherlands |
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In any of the 5-star hotels. The exact venue will be informed once finalized.

Training Fees

- \$6,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments, and buffet Lunch.

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

Drilling is an essential and expensive part of the oil and gas industry.

Improving the drilling operation carries the greatest interest from the oil and gas operating companies. The oil and gas drilling industry is changing rapidly in the areas of technology, safety, environment, management, contractual relationships training, 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 Engineering & control operations, drilling problems& solving, well completion operations, and reporting procedures.

TRAINING OBJECTIVES

Upon successful completion of the course, participants will be able to:

- Review drilling data and plan the well from the spud to the production phase.
- ✓ Well design and optimize drilling & work over schedule.
- ✓ New Drilling techniques ERD, MSD, and MPD applying.
- Incorporate the completion plans into the drilling plan
- Drill well cost-effectively and maximize penetration rate.
- Evaluate stuck pipe problems and avoid potential problems
- Evaluate and maintain drilling fluids
- Optimize hole cleaning

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- 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-control problems
- Production system optimization.
 - ✓ Design well completion
 - ✓ Type of well completion
 - ✓ Troubleshooting and remedial action
 - ✓ What's new in the oil industry?

WHO SHOULD ATTEND?

Drilling engineer, Drilling, supervisor, superintend, Petroleum Engineers and technical staff

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your questions and to share in the development of the right answers using your analysis and experiences. Tests of multiple-choice type will be made available daily to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

DAILY OUTLINE

Day 1

Overall Drilling Process:

Pretest

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

Well, planning and operations:

- Making Hole & Bit Selection
- Drilling Fluids (Mud types)

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Day 2

- Casing design
- Casing Operation
- Cement design
- Cementing Operation
- Case study
- Video film CD-DVD

Drilling Well Engineering

- Type of wells
- Design Deviation, Horizontal and Multilateral Wells
- New Drilling techniques ERD, MSD, and MPD applying.
- Optimize drilling and workover operations.
- Well completion design.
- Type of well completions

Day-3

Hole Problems & Prevention:

- Lost Circulation
- Stuck Pipe
- Kick & well control
- Shale problems
- Fishing operations
- Sidetrack
- Directional drilling
- Problems and Practical Exercises

Day-4

Well Control

- Rules and Regulations
- Origin of abnormal pressure
- Predicting formation pressure
- Type of pressure
- Well barrels
- How to optimize and control wells
- Causes of kick
- Kick warning signs
- Kick detection
- Pressure concept and calculation of fracture pressure and MAASP.
- Well control procedures.
- Shallow gas kicks
- Case study
- Video film CD-DVD

Day-5

- Killing Methods
- Exercises on well control
- Kill sheet exercises.

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- Diverters and closing system.
- Unusual well control methods
- Associated problems during well control
- Well control equipment.
- Diverter system
- Top-up drive operations and maintenance
- Bops' equipment exercises
- RISK Assessment and well integrity
- HSEQ in the oil industry
- Case study, practice exercises
- Review and discussion
- Post-test

NOTE:

Pre & Post Tests will be conducted.

Case Studies, Group Exercises, Group Discussions, Last Day Reviews, and assessments will be carried out.



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