

Training Title

DRILLING FLUIDS TECHNOLOGY

Training Duration

5 days

Training Venue and Dates

DE055	Drilling Fluids Technology	5	18 – 22 Nov. 2024	\$5,750	Dubai, UAE
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In any of the 4 or 5-star hotels. The exact venue will be informed once finalized.

Training Fees

- \$5,750 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch.

Training Certificate

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

TRAINING DESCRIPTION

This Drilling Fluids Technology training course gives a clear picture for well control to everybody involved in drilling and workover operations. The drilling fluids help the operator to have a smooth drilling operation safely and this is the way to control all formation pressures and also to lift all cuttings from the well as per section and at the same time keeps the well static and full of geological formation intact till the casing is ran and set in place and secure the particular section of the well. Many of particularities conducting to a very expensive mud or brine is due to necessity to keep the well under control all the time throughout the drilling process but also to minimize the skin / formation damage to avoid production problems during the lifecycle of the well.

Primarily in this Drilling Fluids Technology training course, we are concerned with problems associated with selection of the appropriate drilling fluid to accomplish the demands of the well in a cost-effective way.

This training course will contain in-depth information on the cost impact of the mud and brines for drilling and workovers and the preparation for well testing or completion design in maximizing field production and increasing recoverable reserves by keeping well productivity under optimum conditions based on minimum formation damage.

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The Drilling Fluids Technology training course will feature:

All types of drilling Fluids which actually are the blood of all drilling and workover operations.

Identify and closely predict the cost of mud per well according to the drilling design which can account over 20% of the total drilling cost per well.

Respect the stiff environment regulations

Increase the use of advanced wells, highly deviated or horizontal ones by using the proper water base mud and or oil base mud.

TRAINING OBJECTIVES

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

To control efficiently the subsurface pressure.

- To keep the holes clean by applying good oilfield operation practice and transporting drastically the drilling cuttings on surface.
- To stabilize and support the borehole.
- To help the designed BHA for drilling to have the best results in minimum time.
- To face drilling problems related to difficult formations where partial or total mud losses occur during circulation.
- To prepare the well for open hole logging.
- To understand the formation damage and to keep it minimum.
- To facilitate the operation to unstuck D/P or during the fishing operations
- To know what are the actions to kill the well in a critical situation.
- To evaluate the efficiency of the drilling fluid according to the formation under drilling and make adjustments and corrections in properties of the fluid.
- To be familiar with FIT and LOT tests during the drilling operations
- Operate new innovative down hole tools like MWD and LWD, DHM and turbines.

WHO SHOULD ATTEND?

- Drilling Engineers
- Drilling Foremen
- Mud Engineers
- Mud technicians
- Drilling Supervisors
- Tool pushers
- W.O engineers
- Production Technologists
- Production supervisors and foremen
- Completion supervisors and engineers

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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 own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis 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

Drilling Fluids Overview, Practices and Strategies

- Basic Design of Drilling a well
- Mud functions
- Mud classification
- Mud properties and basic guide for mixing
- Additives
- Mud and Brines applications

DAY - 2

Completion and Clean Fluids

- Corrosion control
- Monitoring properties of the drilling fluids
- Barriers and well control
- Displacement procedure
- Drill in fluids
- Well kill principles and procedures

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DAY - 3

Mud Monitoring and Tests in Situ

- Overview of field tests and adjustments
- Types of mud and applications
- Tests for oil base mud (OBM)
- Tests for water base mud (WBM)
- Synthetic mud (SBM)
- Polymers and use in drilling fluids
- Completion / Workover fluids (CWO) and packer fluids

DAY - 4

Drilling Problems and Mud Special Applications

- Foam and air fluids
- Under balance drilling
- Lost circulation materials
- Oil base mud and restrictions
- Formation damage due to drilling
- Rheology and hydraulics
- Calculations and tables

DAY - 5

Special Applications

- Solids control
- Lifting the drilling cuttings and evaluation
- Specialized tests
- Pipe stuck and fishing operation
- Synthetic base mud
- HP water base mud
- Well control

NOTE:

Pre & Post Tests will be conducted

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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