



DE020: Drilling Fluids Technology



Training Description:

This course will take participants through a comprehensive look at the functions of drilling fluids. It will address how to engineer a mud system, as well as cover water based, oil based, and synthetic mud systems.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Learn about the functions of drilling fluids and the composition of water-based mud
- ✓ Learn about oil and synthetic based mud products and systems
- ✓ Learn about lost circulation and stuck pipe problems and solutions
- ✓ Learn about hole cleaning, hydraulics calculations, real time measurements, and reservoir drill-in fluid systems

Training Designed for:

This course is intended for Drilling Engineers with a basic knowledge of well design principles.

Training Program:

FIVE DAYS:

- ❖ PRE-TEST
- ❖ Functions of drilling fluids
- ❖ Composition of water-based mud
- ❖ Clay chemistry
- ❖ Rheology
- ❖ Products and systems
- ❖ High performance
- ❖ Oil and synthetic based mud products and systems
- ❖ Lost circulation
- ❖ Stuck pipe problems
- ❖ HPHT challenges
- ❖ HPHT applications and systems
- ❖ Hole cleaning
- ❖ Virtual hydraulics and real time measurements
- ❖ Reservoir drill-in fluid system
- ❖ Completions fluid
- ❖ Well clean up and displacement procedures
- ❖ Solid control equipment
- ❖ Emerging technologies
- ❖ Course Conclusion
- ❖ POST-TEST and EVALUATION

Training Requirements:

“Hands-on practical sessions, equipment and software will be applied during the course if required and as per the client’s request”.





Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 30% Workshops & Work Presentations, Techniques
- 20% Based on Case Studies & Practical Exercises
- 20% Videos, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

As per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

For training registrations or in-house enquiries, please contact:

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Training & Career Development Department

