



Drilling Fluids Technology - DFT

COURSE

About the Course

This course is designed for engineers and field personnel involved in the planning and implementation of drilling programs. The seminar covers all aspects of drilling fluids technology, emphasizing both theory and practical application. Hands-on laboratory exercises are included in the five-day Houston sessions. Drilling is a complex operation requiring the marriage of different technologies and disciplines. Today's drilling personnel must have a working knowledge of the drilling fluid in order to effectively drill a well. The course provides the fundamentals necessary to drill a well, whether it is a shallow well or a complex, high pressure well.

"Very clear! Excellent" - Participant, United States

"I liked the hands on lab portion of the class the best." - Facilities Engineer, United States

Target Audience

Drilling supervisors, drilling engineers, tool pushers, managers, and technical support personnel involved with drilling operations. This course is valuable for anyone who needs to understand the fundamental aspects of drilling fluids.

You Will Learn

Participants will learn how to:

- Use clays and polymers to achieve desired mud properties
- Apply water chemistry to the treatment of drilling fluids
- Perform complete water-based fluid as well as non-aqueous fluid tests using API Recommended Practice 13B/ISO 10414-1*
- Evaluate and apply the results of an API drilling fluids report to maximize drilling operations and minimize non-productive time
- Identify critical drilling fluid contaminants and prescribe corrective treatments for effective drilling fluid management
- Calculate the chloride concentration of the drilling fluid in order to maintain wellbore stability
- Select non-aqueous fluids to meet drilling requirements and environmental concerns
- Manage non-aqueous drilling fluid systems
- Minimize formation damage to optimize well producibility
- Evaluate options for drilling fluid waste management

**Based on laboratory availability*

Course Content

- Composition and properties of water-based drilling fluids
- Analysis of API water-base mud and non-aqueous drilling fluid report
- Identification and treatment of drilling fluid contaminants
- Composition and properties of water-based and non-aqueous drilling fluid systems
- Selection of water phase salinity for borehole stability
- API water-based and non-aqueous drilling mud tests
- Adjustment of non-aqueous drilling fluid properties
- Managing invert emulsion fluid systems: rig preparation and displacement
- Non-aqueous drilling fluids designed for environmental compliance

Product Details

Categories: [Upstream](#)

Disciplines: [Well Construction/Drilling](#)

Levels: [Foundation](#)

Product Type: [Course](#)

Formats Available: [In-Classroom](#) [Virtual](#)

Instructors: [PetroSkills Specialist](#) [Kevin Cuyler](#) [Hector Moreno](#)

In-Classroom Format

7 Oct '24	11 Oct '24	-		Course		In-Classroom (in Houston)	\$4,885.00
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