

**Training Title**

**DRILLING FLUIDS & SOLID CONTROL - INTERMEDIATE LEVEL**

**Training Duration**

**5 days**

**Training Date**

<b>Ref. No.</b> DE006	<b>Drilling Fluids &amp; Solid Control - Intermediate Level</b>	<b>5</b>	<b>22-26 September 2025</b>	<b>\$6,500</b>	<b>London, UK</b>
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In any of the 4 or 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 & Lunch

**Training Certificate**

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

Language: English

**INTRODUCTION**

Drilling fluids (mud) and solid control systems are crucial in oil and gas drilling. Drilling fluids, like water-based, oil-based, or synthetic mud, serve to lubricate the drill bit, cool equipment, control pressure, and transport rock cuttings. Solid control systems remove debris from the fluid to keep it effective, using tools like shale shakers, desanders, desilters, and centrifuges. Proper fluid and solid control ensures operational efficiency, cost savings, environmental protection, and wellbore stability. Challenges include managing high-pressure, high-temperature wells and minimizing environmental impact. Advanced technologies continue to improve fluid performance and solid control efficiency.

**OBJECTIVES:**

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

- Acquire Basic Knowledge on Drilling Fluids and Best Drilling Fluids Procedures and Practices.
- Use clay and polymers to achieve desired mud properties.
- Apply water chemistry to the treatment of drilling fluids.
- Perform a complete API water-based mud and non-aqueous drilling fluids tests

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- Evaluate the information on an API water-based and non-aqueous drilling fluid report.
- Identify drilling fluid contaminants and prescribe corrective treatments.
- Select water phase salinity and activity for bore hole stability
- Select non-aqueous fluids to meet drilling requirements and environmental concerns.
- Manage non-aqueous drilling fluid systems

#### **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 motivate everybody find the right answers. The delegates will also be encouraged to raise their own questions and to share in the development of the right answers using their own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course. Booklet, Power-Point presentations, Handouts, Videos, User group discussions and practices on case study

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

#### **WHO SHOULD ATTEND:**

The workshop is intended for Drilling Engineers, Drilling Representatives, Drilling Fluid Engineers and Contractor Personnel, Drilling Supervisors. Mud Engineers, Cementing Engineers (Offshore and Onshore Personnel), Tool Pushers, Manager and Technical Support involved with drilling operations and responsible for the development, planning and application of the drilling fluids program.

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#### **COURSE OUTLINE:**

##### **Day 1:**

Registration & Coffee

Welcome & Introduction

- Classification of Drilling Fluids and Additives
- Completion Fluids
- Clay Chemistry

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- Corrosion

**Day 2:**

- Displacement
- Drill-In Fluids
- Field and Specialized Tests
- Foam and Aerated Fluids
- Lost Circulation

**Day 3:**

- Oil-Based Mud (OBM) System.
- Rheology and Hydraulics
- Solids Control
- Screen devices
- Centrifugal separation devices
- Stuck Pipe

**Day 4:**

- Synthetic Based Mud (SBM) System.
- Tables-Charts-Calculations
- Troubleshooting
- Water-Based Mud (WBM) System.
- Workshops, Group Work & Practical Exercises

**Day 5:**

- HS&E Considerations (Health, Safety & Environmental)
- Well Control
- Kill methods
- Kick Control Problem
- Cuttings/Cleaning and Disposal
- Drill Cuttings Evaluation

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**NOTE:**

**Pre & Post Tests will be conducted**

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

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