



Drilling Fluids Technology

Duration

Five (5) days

Objectives

The goal of this course is to provide an improved understanding of the drilling fluids engineering and some of the topics covered will include composition and properties of water-based and non-aqueous drilling fluids, API testing and analysis procedures, clay and polymer chemistry, drilling fluid selection and design, treatment of drilling fluids and solids control equipment. The course will also focus attention on the drilling fluids-related problems of wellbore stability, differential sticking, lost circulation, hole cleaning, environmental acceptability and formation damage. Classroom exercises and discussions on the practical cases are also included.

Content

- Definition and Functions of Drilling Fluids
- Physical and Chemical Properties
- Clay Chemistry
- Polymer Chemistry
- Water Based Drilling Fluids
- Non-Aqueous Fluids
- Solids Control
- Drilling Fluids Related Problems

Prerequisites

Basic knowledge of drilling engineering.

Audience

Wellsite supervisors, drilling engineer and drilling superintendents.