

Course Name

GC3. Non-Aqueous Drilling Fluids

Duration

Five (5) days

Objectives

This course aims to provide participants with a basic understanding of Non-Aqueous Drilling Fluids (NADF) as the best alternative fluid system for harsh drilling environments. The course is designed to give all theoretical and practical details regarding design, formulation, additives, field trials and fluid performance. Participants will also be informed about the inhibition mechanisms used and recent advances in NADFs. Classroom exercises and discussions on the practical cases are also included.

Content

- Introduction
- Types of Non-Aqueous Drilling Fluids
- Chemistry of Invert Emulsions
- Properties of Invert Emulsion Drilling Fluids
- Components of Invert Emulsion Drilling Fluids
- Inhibition Mechanisms
- Mixing & Displacement Procedures
- Novel Invert Emulsion Drilling Fluids
- Troubleshooting Invert Emulsion Drilling Fluids
- Non-Aqueous Drilling Fluid Calculations

Prerequisites

Basic knowledge of drilling, drilling fluids and well construction.

Audience

Drilling and drilling fluid engineers, superintendents and supervisors, and all professionals involved in well planning and operation.