

## **(9) Drilling Engineering for Non-Drilling Engineers**

### **WHO SHOULD ATTEND**

This short course is intended for personnel with no drilling background, knowledge or experience. It is a very basic and introductory course designed to expose and introduce potential candidates to drilling engineering concepts and fundamentals.

### **COURSE OBJECTIVES**

- To introduce participants to basic concepts, theories, principles and overview of drilling
- Expose participants to the various drilling facilities onshore and offshore and rig set-up
- Introduction to the stakeholders involved in drilling
- Introduce participants to the history of drilling, drilling terminologies and drilling methodologies
- Explain the purpose and essentials of drilling
- Show participants the basic concept of drilling operation and process
- Introduce participants to major considerations such as well control
- Explain the fundamental and basic calculations in drilling

### **COURSE CONTENT**

- Fundamentals of Petroleum
- Stakeholders involved in drilling and drilling contracts
- Drilling contracts and stakeholders
- Onshore and Offshore Drilling Unit
- History of drilling
- Rotary drilling
- Rig set-up
- Drill string and Bottom hole assembly concept
- Well control and the Drilling Process
- Concept of Drilling
- Fundamental Drilling Calculations
- Introduction to Directional Drilling

### **INTENDED FOR**

This is a short course intended for potential participants in the Oil and Gas industry with the basic knowledge and understanding of drilling. Participants would be introduced to the first-hand and essential concepts and principles of drilling, the process and equipment. Basic and fundamental calculations of drilling are covered in this course as well.