

*Geology, Drilling & Reservoirs Training Course*

## *Extended Reach Drilling (ERD)*

*From 28/08/2023 To 01/09/2023*

*Manchester Marriott Victoria & Albert Hotel - Manchester - UK*

*5500\$ (5% Special Discount for Major Customers & Groups)*

### ***Course Introduction***

This training course will focus to improve the participants' understanding of the design and operational aspects of high angle drilling. The practices for complicated highly deviated wells will be covered and participants will receive instructions on planning and evaluating these wells based on the objectives and how to perform the proper planning for an ERD well. In addition, this training course will cover which drilling parameters should be focused during both planning and execution for a well with fewer problem well. This training course will highlight:

- ERD and highly deviated candidate wells.
- Understanding challenges and limitations.
- Calculating important parameters.
- Understanding Drilling/Tubular run challenges and solutions.

### ***Course Objectives***

**By the end of this training course, participants will learn to:**

- Improve understanding of high angle drilling.
- Gain confidence in an engineering approach to drilling.
- Be able to explain why certain practices worked (or didn't work) on previous wells.
- Be able to anticipate when (and why) different techniques may be required on future wells.
- Experience fewer problems on future wells.

## ***The Course Content & Outline***

### **Day One: Definitions and Introduction**

- What is ERD.
- Definitions and Achievements.
- High Angle Differences.
- Simple well Planning.

### **Day Two: Design Factors 1**

- Trajectory Planning.
- Torque and Drag basics.
- Bulking Basics.
- Rig and Equipment for ERD.
- Tripping and Backreaming.

### **Day Three: Design Factors 2**

- Hole Cleaning.
- Surge and Swab.
- Connection Practices.
- Hydraulics and ECD Management.
- Hole Condition Monitoring.

### **Day Four: Design Factors 3**

- Wellbore Stability Basics.
- Differential Sticking.
- Tubular Running.
- Casing Floatation.
- Tubular and Drill Pipe Wear.

### **Day Five: Design Factors 4**

- Cementing.
- Vibration.
- Bit and BHA Selection.
- Surveying.
- Well Design Example.