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## Fundamentals of Directional Drilling

Delivery Method	:	Classroom (English)
Fee	:	Available on request
Location	:	PetroTalent, Pune INDIA
Seats	:	15
Duration	:	4 days

### Course Information

#### Overview

This 4-day introductory course is designed for engineers, geologists, petrophysicists, and others who wish to have a better understanding of the methods and equipment used in modern directional drilling and surveying. The course will focus on the planning and simulated drilling of a highly deviated wellpath, including landing a medium radius horizontal section to a tight TVD tolerance. Lectures will also cover the main elements of borehole surveying and understanding well path uncertainty and how it affects well placement. Examples and case studies from a number of countries are presented. All materials will be provided electronically at the course, including a copy of the simulation software used throughout the training.

A complete set of course materials is included.

#### Training Outline

##### Introduction

Understanding Mapping, Geodesy, Datums and Projections

Understanding Magnetism and in Field Referencing

MWD - Strengths and Limitations

Equipment and Methods of Deviated Drilling

Well Planning From Field Layout Planning to Individual Trajectories

Anticollision Considerations

Borehole Surveying Methods and Equipment  
Surface Position Uncertainty  
Downhole Survey Uncertainty and Error Models Such as ISCWSA  
Minimising Downhole Error  
Common Blunders and How to Avoid Them  
Quality Control and Monitoring  
Simulator Exercises  
Kicking a Well off in Top Hole Using a Mud Motor  
Drilling a Full 's' Well to Target  
Landing a Medium Radius Horizontal Well  
Landing a Medium Radius

#### Training Venue

The course will be held at a PetroTalent less than a 5 minute drive, or within walking distance, to the hotel(s) listed below.

#### Accommodation:

PetroTalent is equipped with excellent guest house facility for outstation candidates at very reasonable rate. For more details contact [sharad.petrotalent@gmail.com](mailto:sharad.petrotalent@gmail.com).

Batch : Available on Request

Fees : Available on Request.