

**Training Title:**

**DIRECTIONAL DRILLING & SURVEYING**

**Training Duration:**

**5 Days**

**Training Venue and Dates**

<b>DE448</b>	<b>Directional Drilling &amp; Surveying</b>	<b>5</b>	<b>24-28 Nov, 2019</b>	<b>\$4,000</b>	<b>Dubai, UAE</b>
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**In any of the 5 star hotel. Exact venue will be informed soon.**

**Training Fees**

- 4,000 US\$ per participant for Public Training including Course Materials/Handouts, Tea/Coffee, Refreshments & International Buffet Lunch

**Training Certificate**

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

**TRAINING OBJECTIVES:**

**Upon the successful completion of the course, participants should:-**

- **Recognize the application & selection of potential directional wells.**
- **Well planning and Drill string design.**
- **Survey Calculation Methods.**
- **How to utilize Perforation, Completion , Stimulation in Horizontal well.**
- **Be familiar with placement of stabilizers, motors and steerable systems, and other mechanisms.**
- **Have a basic understanding of the practical methods used to drill Horizontal/multilateral wells.**
- **Understand the limits of tools and methods.**
- **Understand the benefits and risks of directional drilling.**
- **Well Control and Safety Aspects.**

**TRAINING METHODOLOGY**

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A highly interactive combination of lecture and discussion sessions will be managed to maximize the amount and quality of information, knowledge and experience transfer. The sessions will start by raising the most relevant questions, and motivate everybody finding the right answers. The attendants will also be encouraged to raise more of their own questions and to share developing the right answers using their own analysis and experience

- All attendees receive a course manual as a reference.
- 30% Lectures
- 30% Workshops & Work Presentations
- 20% Case Studies & Practical Exercises
- 20% Videos & General Discussions

**WHO SHOULD ATTEND:**

Drilling Engineers, Field Engineers, Petroleum Engineers, Supervisors & Technicians from work-over & other company staff involved in directional drilling operations.

**COURSE OUTLINE:**

- Introduction
- Why we drilling Directional and Horizontal
- Directional Well Applications
- Directional & horizontal Well Profile
- Directional & horizontal Well Planning
- Case studies and group work
- Trajectories and Design of directional well
- Horizontal well build curve design
- Well bore Trajectory Control
- Survey Calculation Methods
- Tool face setting
- Deflection tools

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- Friction, Torque and Drag
- Bending Stress and Buckling
- Drill String Design
- Practical exercises & case studies
- Operations in horizontal wells
- Logging, Coring,
- Running Pipes & Cementing.
- Case studies and examples
- Operations in directional & horizontal wells
- Perforation,
- Completion Types
- Stimulation and hydraulic fracture
- Work shop and group encircles
- Well Control and Safety Aspects.
- Risk assessment in directional & horizontal drilling
- Applications in directional drilling operations
- Multilateral Drilling technology
- Why we drilling multilateral
- Type of multilateral drilling
- Applications in Multilateral drilling
- Directional problems
- Review all types of directional drilling

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•Work shop and group exercise

Note:

Pre & Post Tests will be conducted

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.



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