

## **DIRECTIONAL DRILLING**

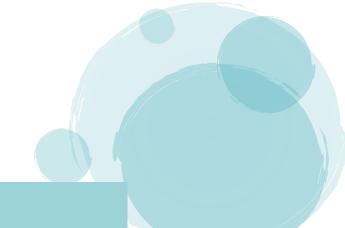


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# **Course Description:**

The goal of the course is to enable participants to understand the operations carried out by directional drillers and contribute to the design of directional and horizontal wells. The course covers the fundamentals, design considerations and operational aspects of directional and horizontal drilling.

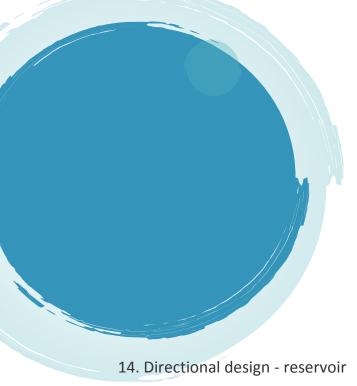
### **Audience:**

Drilling engineers, drilling supervisors, trainee drillers, rig engineers and service company personnel with basic drilling engineering.

#### **Course Schedule**

- 1. Directional drilling fundamentals-applications and limitations
- 2. Algebra and trigonometry review
- 3. Terminology, Well objectives and target
- 4. Directional well planning positioning and coordinate systems
- 5. Survey calculation methods
- 6. Anti-collision and advanced well planning
- 7. Surveying-gyroscopes
- 8. MWD

#### **Best Technology Solutions (BTS)**



- 9. Downhole equipment-drilling tools and deflection methods
  - 10. Drilling motors
  - 11. Drilling bits
  - 12. BHA assemblies
  - 13. Wellsite operations
- 15. Drilling and surface considerations
- 16. Well profile/wellpath/trajectory design
- 17. Torque and drag modeling
- 18. BHA design
- 19. Hydraulics
- 20. Calculations
- 21. Horizontal wells -types and planning
- 22. Completion techniques
- 23. Logging techniques
- 24. Coring techniques
- 25. Wellbore stability issues
- 26. Hole cleaning