



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

9. Downhole equipment-drilling tools and deflection methods

10. Drilling motors

11. Drilling bits

12. BHA assemblies

13. Wellsite operations

14. Directional design - reservoir

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