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Course Name

Directional, Horizontal and Sidetrack Drilling

Sector Name

Oil, Gas and Chemical

Document Type

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Directional, Horizontal and Sidetrack Drilling

Course Introduction

In the ever-evolving landscape of the oil and gas industry, the mastery of directional, horizontal, and sidetrack drilling techniques has become a fundamental prerequisite for ensuring efficient resource extraction and maximizing reservoir productivity. This comprehensive training program on Directional, Horizontal, and Sidetrack Drilling is designed to equip industry professionals with the necessary expertise and skills to navigate the complexities of wellbore trajectory control and optimization. Participants will delve into the intricacies of planning, designing, and executing drilling operations, gaining valuable insights into the latest technological advancements and best practices that drive operational excellence and yield superior drilling outcomes.

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Directional, Horizontal and Sidetrack Drilling

Target Audience

- ✓ Drilling Engineers and Drilling Supervisors
- ✓ Well Site Managers and Rig Operators
- ✓ Directional Drillers and Mud Engineers
- ✓ Petroleum Geologists and Geoscientists
- ✓ Reservoir Engineers involved in Well Planning
- ✓ HSE Professionals in the Oil & Gas Industry

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Directional, Horizontal and Sidetrack Drilling

Learning Objectives

- ✓ Gain a comprehensive understanding of the principles and applications of directional, horizontal, and sidetrack drilling techniques, including their respective advantages and limitations.
- ✓ Develop the skills necessary to effectively plan, design, and execute wellbore trajectory control for optimal drilling performance and reservoir optimization.
- ✓ Learn to utilize advanced software tools and technologies for well trajectory planning and real-time monitoring, ensuring precision and accuracy in drilling operations.
- ✓ Obtain insights into the latest innovations and emerging technologies in directional drilling, including the application of rotary steerable systems and measurement while drilling tools for enhanced drilling efficiency and performance.
- ✓ Implement best practices for managing risks, ensuring wellbore integrity, and adhering to industry regulations and compliance standards throughout directional, horizontal, and sidetrack drilling projects.

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Directional, Horizontal and Sidetrack Drilling

Course Outline

✓ 01 Day One

Fundamentals of Drilling Techniques

- ✓ Introduction to Directional, Horizontal, and Sidetrack Drilling
- ✓ Key Components of Drilling Equipment and Tools
- ✓ Understanding the Importance of Wellbore Trajectory Control
- ✓ Safety Protocols and Best Practices in Drilling Operations
- ✓ Overview of Industry Regulations and Compliance Standards

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Course Outline

✓ 02 Day Two

Planning and Designing Directional Drilling

- ✓ Wellbore Trajectory Planning and Design Principles
- ✓ Analyzing Geological and Geophysical Data for Well Placement
- ✓ Factors Influencing Drill Path Selection and Optimization
- ✓ Utilizing Software Tools for Well Trajectory Planning
- ✓ Mitigating Risks and Challenges in Directional Drilling Projects

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Course Outline

✓ 03 Day Three

Horizontal Drilling Techniques and Applications

- ✓ Advantages and Limitations of Horizontal Drilling
- ✓ Reservoir Engineering Considerations for Horizontal Wells
- ✓ Implementing Effective Well Placement Strategies for Reservoir Optimization
- ✓ Horizontal Well Completion and Production Enhancement Techniques
- ✓ Case Studies and Best Practices for Successful Horizontal Drilling Projects

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Course Outline

✓ 04 Day Four

Sidetrack Drilling Operations and Procedures

- ✓ Understanding the Need for Sidetrack Drilling in Wellbore Optimization
- ✓ Sidetrack Drilling Techniques and Methodologies
- ✓ Managing Wellbore Integrity and Stability during Sidetrack Operations
- ✓ Evaluating the Economic Viability of Sidetrack Drilling Projects
- ✓ Implementing Risk Management Strategies for Sidetrack Drilling

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Course Outline

✓ 05 Day Five

Advanced Topics in Directional Drilling

- ✓ Innovations and Emerging Technologies in Directional Drilling
- ✓ Application of Rotary Steerable Systems and Measurement While Drilling Tools
- ✓ Optimizing Drilling Performance and Efficiency in Complex Reservoirs
- ✓ Wellbore Trajectory Correction and Real-time Monitoring Techniques
- ✓ Practical Exercises and Case Studies for Advanced Directional Drilling Projects

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Jan. 17, 2027	Jan. 21, 2027	5 days	4250.00 \$	KSA , Dammam
June 14, 2027	June 18, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
Aug. 17, 2026	Aug. 21, 2026	5 days	4950.00 \$	Italy , Milan
Nov. 15, 2026	Nov. 19, 2026	5 days	4250.00 \$	Oman , Muscat

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