

## ADVANCED DRILLING BEST PRACTICES

<b>Start Date:</b>	05/04/2026	<b>End Date:</b>	09/04/2026
<b>Categories:</b>	Oil & Gas	<b>Venues:</b>	Dubai
<b>Formats:</b>	In Person	<b>Instructors:</b>	

### OVERVIEW

This intensive program covers the latest advancements and best practices in drilling engineering and operations. Participants will gain in-depth knowledge of modern drilling technologies, performance optimization strategies, and risk mitigation methodologies essential for executing complex drilling projects efficiently and safely across diverse geological settings.

### OBJECTIVES

By the end of this course, participants will be able to:

- Deepen technical expertise in advanced drilling methods, including extended-reach and HPHT wells.
- Evaluate and apply cutting-edge drilling technologies such as rotary steerable systems and managed pressure drilling (MPD).
- Develop comprehensive risk management plans for complex drilling environments.
- Implement techniques to maximize drilling performance and reduce non-productive time (NPT).
- Strengthen problem-solving skills through the analysis of real-world drilling failures and troubleshooting strategies.

### COURSE OUTLINE

1- Fundamentals and Trends in Advanced Drilling Practices 2- Innovative Technologies and Equipment in Drilling Operations 3- Risk Identification, Assessment, and Management in Well Construction 4- Performance Monitoring, Optimization, and Benchmarking Tools 5- Real-World Case Studies: Lessons Learned and Troubleshooting Techniques

### TARGET AUDIENCE

All Supervisory Levels, Drilling Engineers, Well Engineers, Drilling Supervisors, Drilling Superintendents, Operations Managers, Technical Consultants, and Petroleum Engineers involved in high-complexity drilling projects.

### METHODOLOGY

Drilling Engineers, Well Engineers, Drilling Supervisors, Drilling Superintendents, Operations Managers, Technical Consultants, and Petroleum Engineers involved in high-complexity drilling projects.

## CONCLUSION

Upon completion of the course, participants will have the capability to design, plan, and execute drilling programs with a higher degree of efficiency and technical precision. They will be equipped to apply best practices to reduce drilling risks, optimize operational outcomes, and handle complex well conditions confidently.

## DAILY AGENDA

### Day 1: Foundations of Advanced Drilling Practices

Introduce participants to advanced drilling methodologies, review critical challenges in modern drilling environments, and discuss the evolution and future trends of drilling technology and techniques.

### Day 2: Innovative Drilling Technologies and Tools

Detailed examination of advanced equipment and technologies such as rotary steerable systems, MPD applications, automated rig systems, and innovations in bottom-hole assembly (BHA) design.

### Day 3: Risk Management and Complex Well Design

Focus on comprehensive risk management frameworks, well control principles, wellbore integrity management, and contingency planning for deepwater, HPHT, and extended-reach drilling (ERD) projects.

### Day 4: Performance Optimization and Drilling Efficiency

Techniques for analyzing key performance indicators (KPIs), utilizing real-time drilling data for performance improvement, reducing invisible lost time (ILT), and implementing continuous improvement strategies.

### Day 5: Case Studies and Problem-Solving in Drilling Operations

Hands-on group exercises based on real-world drilling failures, troubleshooting stuck pipe, lost circulation, and wellbore instability issues, applying technical reasoning to develop effective remediation strategies.

*For more information, please contact us:*

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