

Advanced Drilling Best Practices: Optimizing Well Performance

Oil & Gas Engineering
Madrid (Spain)
04 - 08 Aug 2025

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A close-up photograph of chess pieces on a checkered board. In the foreground, a large, ornate gold king piece stands prominently. To its left, a smaller silver pawn is visible. Further back, another silver pawn is positioned. The background features concentric circles, suggesting a target or a strategic focus.

Advanced Drilling Best Practices: Optimizing Well Performance

Ref: 321381_139311 **Date:** 04 - 08 Aug 2025 **Location:** Madrid (Spain) **Fees:** 4400 **Euro**

Course Description

This intensive 5-day course covers advanced drilling techniques and best practices to optimize well performance and operational efficiency. Participants will gain in-depth knowledge of modern drilling technologies, problem-solving strategies, and innovative approaches to enhance drilling operations across various environments.

Learning Objectives

- Master advanced drilling techniques and technologies
- Develop skills in comprehensive well design and planning
- Optimize drilling fluid selection and management
- Enhance problem-solving abilities for complex drilling scenarios
- Implement cost-effective and efficient drilling strategies

Course Modules

Day 1: Advanced Drilling Technologies and Well Planning

- Overview of cutting-edge drilling technologies
- Comprehensive well design and planning strategies
- Risk assessment and mitigation in complex drilling operations
- Integration of real-time data for informed decision-making

Day 2: Drill String Mechanics and Optimization

- Advanced drill string design and analysis
- Optimizing weight on bit WOB and rotary speed
- Drill string vibration management
- Bottom Hole Assembly BHA design for directional control

Day 3: Drilling Fluid Management and Hydraulics

- Advanced drilling fluid selection and formulation
- Hydraulics optimization for improved hole cleaning
- Managing drilling fluids in challenging environments
- Wellbore stability and fluid interaction

Day 4: Directional Drilling and Wellbore Trajectory

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- Advanced directional drilling techniques
- Trajectory optimization for complex well profiles
- Geosteering and real-time trajectory adjustments
- Multi-lateral and extended reach drilling considerations

Day 5: Problem Solving and Performance Optimization

- Advanced stuck pipe prevention and recovery techniques
- Lost circulation management strategies
- Optimizing Rate of Penetration ROP
- Case studies and lessons learned from challenging drilling operations

Practical Wins for Participants

- Ability to design and implement advanced drilling programs
- Enhanced problem-solving skills for complex drilling challenges
- Improved operational efficiency and cost reduction strategies
- Networking opportunities with industry experts and peers

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