



دورة الحفر الشاملة: التقنية وتدابير السلامة ومراقبة الجودة



AGILE LEADERS
Training Center

08 - 26 Nov 2026

جوهانسبرغ



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الرجوع: 36312_70658 التاريخ: 08 - 26 Nov 2026 الموقع: جوهانسبرغ الرسوم: Euro 15000

Course Overview:

The course is designed to equip drilling professionals with the essential knowledge and skills required in modern drilling operations. This course covers a broad spectrum of critical topics, including drilling safety training, advanced drilling engineering, and quality assurance in drilling. Participants will delve into the nuances of well completions safety, pressure testing safety, and the importance of blowout preventer testing. The course also addresses safe chemical use in drilling, ensuring participants understand the latest safety protocols. Furthermore, it explores advanced technologies like HPHT drilling, casing drilling technology, and coiled tubing drilling, essential for tackling complex drilling challenges. With a focus on practical applications and real-world scenarios, this course provides an in-depth understanding of drilling problems and solutions, drill string mechanics, and mechanized drilling operations. The inclusion of non-conventional drilling methods, wellbore hydraulics, and drill bit optimization ensures that participants are well-versed in both conventional and emerging drilling techniques. Quality control aspects, such as QAQC services, equipment inspection, and vendor inspection operations, are also thoroughly covered, emphasizing the importance of minimizing drilling non-productive time NPT and ensuring well operations quality control.

Target Audience:

- Drilling Engineers
- Drilling Supervisors
- Safety Managers
- Operations Managers
- Technical Support Personnel
- Drilling Contractors

Targeted Organizational Departments:

- Drilling Operations
- Health, Safety, and Environment HSE
- Quality Assurance and Quality Control QAQC
- Engineering and Technical Support
- Project Management

Targeted Industries:

- Oil and Gas
- Geothermal Energy
- Offshore Drilling
- Onshore Drilling
- Energy Sector

Course Offerings:

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

- Implement comprehensive drilling safety protocols
- Understand advanced drilling engineering concepts
- Apply casing and coiled tubing drilling technologies
- Conduct quality assurance and quality control in drilling operations
- Optimize drill bit selection and drilling fluids for HPHT environments
- Address drilling problems and solutions effectively
- Execute equipment inspection and vendor inspection operations

Training Methodology:

The course employs a variety of training methodologies to ensure a thorough understanding of the material. Participants will engage in case studies, group work, interactive sessions, and feedback sessions, all designed to foster a deep understanding of drilling safety training, advanced drilling engineering, and quality assurance in drilling.

Course Toolbox:

Participants will receive:

- workbooks
- detailed reading materials and online resources
- checklists and templates for safety protocols

Course Agenda:



Day 1: Introduction to Drilling Safety

- General Safety in Drilling Operations Topic 1: •
- Safety Protocols on the Pipe Deck Topic 2: •
- Drill Floor Safety Measures Topic 3: •
- Derrick Safety Guidelines Topic 4: •
- Shale Shakers and Mud Pits Safety Topic 5: •
- Safety in the Power Generation Module Topic 6: •
- Review of key safety protocols and initial impressions Reflection & Review: •

Day 2: Specialized Safety Procedures

- Safety in the Mud Pump Module Topic 1: •
- Pressure Testing Safety Procedures Topic 2: •
- Safe Chemical Use in Drilling Topic 3: •
- Safety in the Sack Store Topic 4: •
- Overview of Well Completions Safety Topic 5: •
- Blowout Preventer BOP Testing Procedures Topic 6: •
- Discussing the importance of specialized safety procedures Reflection & Review: •

Day 3: Advanced Drilling Technologies

- Introduction to Advanced Drilling Engineering Topic 1: •
- High Pressure High Temperature HPHT Drilling Techniques Topic 2: •
- Casing Drilling Technology Overview Topic 3: •
- Coiled Tubing Drilling: Applications and Techniques Topic 4: •
- Shale Gas Drilling Methods Topic 5: •
- Non-Conventional Drilling Methods Topic 6: •
- Evaluating the impact of advanced technologies in drilling Reflection & Review: •

Day 4: Drilling Engineering and Mechanics

- Drill String Mechanics: Loads and Failures Topic 1: •
- Design Concepts for Drill String and Tubulars Topic 2: •
- Mechanized Drilling Operations Topic 3: •
- Managing Stuck Pipe Situations Topic 4: •
- Fishing Operations in Drilling Topic 5: •
- Drill Bit Optimization and Selection Topic 6: •
- Analyzing case studies on drill string failures and solutions Reflection & Review: •



Day 5: Drilling Fluids and Wellbore Management

- Drilling Fluids for HPHT Environments Topic 1: •
- Wellbore Hydraulics: Principles and Applications Topic 2: •
- Wellbore Construction Techniques Topic 3: •
- Maintaining Wellbore Integrity Topic 4: •
- Casing Fatigue: Causes and Prevention Topic 5: •
- Expandable Tubulars and Their Applications Topic 6: •
- Discussion on wellbore management and fluid selection Reflection & Review: •

Day 6: Environmental and Safety Considerations

- Environmental Aspects of Drilling Activities Topic 1: •
- High-Performance Drilling Concepts Topic 2: •
- Drilling Through Gas Hydrates Topic 3: •
- Safety Valves and Their Importance in Drilling Topic 4: •
- Bull Heading: When and How to Consider Topic 5: •
- Optimizing Drilling Technologies for Environmental Safety Topic 6: •
- Reviewing environmental and safety best practices Reflection & Review: •

Day 7: Quality Assurance and Control in Drilling

- Introduction to QAQC in Drilling Operations Topic 1: •
- Equipment Inspection and Standards Compliance Topic 2: •
- Drilling Non-Productive Time NPT Management Topic 3: •
- QAQC Auditing of Manufacturing Plants Topic 4: •
- Drilling Equipment Safety Standards Topic 5: •
- Vendor Inspection and Quality Control Topic 6: •
- Assessing the importance of QAQC in minimizing NPT Reflection & Review: •

Day 8: Equipment Management and Inspection

- Drill String Inspection Techniques Topic 1: •
- Casing and Tubing Quality Control Topic 2: •
- Wellbore Cleanup Tools: Inspection and Maintenance Topic 3: •
- Tubular Handling Equipment: Best Practices Topic 4: •
- Rotary Steerable Tools: Inspection and Operation Topic 5: •
- Rig Equipment Inventory Audit Topic 6: •
- Discussing the role of inspections in maintaining operational integrity Reflection & Review: •

Day 9: Vendor and Supply Chain Management

- Supply Chain Management in Drilling Operations Topic 1: •
- Vendor Audits: Ensuring Compliance with Standards Topic 2: •
- Pre-Qualification Checks for Equipment Topic 3: •
- Quality Control in Sub-Supplier Facilities Topic 4: •
- Equipment Testing and Certification Topic 5: •
- Managing Relationships with Vendors and Suppliers Topic 6: •
- Evaluating the impact of vendor management on drilling efficiency Reflection & Review: •

Day 10: Advanced QAQC Practices

- QAQC in Drilling and Completion Equipment Topic 1: •
- On-Site Implementation of Quality Assurance Programs Topic 2: •
- Supervision of Third-Party Inspection Activities Topic 3: •
- Case Studies on QAQC Implementation Topic 4: •
- Ensuring Compliance with NS-1, NS-2, and API Standards Topic 5: •
- Strategies to Minimize NPT through Effective QAQC Topic 6: •
- Reviewing key learnings and QAQC best practices Reflection & Review: •

Day 11: Risk Management and Incident Response

- Risk Assessment in Drilling Operations Topic 1: •
- Incident Response Planning and Management Topic 2: •
- HSE Risk Mitigation Strategies Topic 3: •
- Emergency Preparedness in Drilling Sites Topic 4: •
- Communication Protocols During Emergencies Topic 5: •
- Continuous Improvement in Safety and Risk Management Topic 6: •
- Analyzing case studies on risk management and incident response Reflection & Review: •

Day 12: Technological Innovations and Future Trends

- Emerging Drilling Technologies Topic 1: •
- The Role of Automation in Drilling Operations Topic 2: •
- Digital Transformation in Drilling Topic 3: •
- Predictive Maintenance Technologies Topic 4: •
- Sustainable Drilling Practices Topic 5: •
- Future Trends in Drilling and QAQC Topic 6: •
- Discussing the future of drilling technologies and practices Reflection & Review: •

Day 13: Practical Applications and Workshop

- Hands-On Drill String Design Workshop Topic 1: •
- Simulated Drilling Problem Solving Topic 2: •
- Equipment Inspection and Reporting Workshop Topic 3: •
- QAQC Documentation and Compliance Topic 4: •
- Real-World Scenarios and Case Studies Topic 5: •
- Group Discussions and Best Practices Sharing Topic 6: •
- Reflecting on practical applications and workshop outcomes Reflection & Review: •

Day 14: Course Wrap-Up and Certification

- Review of Key Concepts and Learnings Topic 1: •
- Final Assessment and Knowledge Test Topic 2: •
- Certification Ceremony Topic 3: •
- Course Feedback and Evaluation Topic 4: •
- Networking and Professional Development Opportunities Topic 5: •
- Next Steps and Continuous Learning Resources Topic 6: •
- Course conclusion and final reflections Reflection & Review: •

How This Course is Different from Other Drilling Courses:

-The course stands out by offering a holistic approach to drilling training, integrating both traditional and cutting edge technologies. Unlike other courses, this program delves deep into advanced topics such as HPHT drilling, casing drilling technology, and coiled tubing drilling, providing participants with the latest industry knowledge. The course also places a strong emphasis on safety, covering comprehensive drilling safety training and well completion safety. The inclusion of quality assurance and quality control, particularly in equipment inspection and vendor management, ensures participants are equipped to handle the entire lifecycle of drilling operations. With a focus on practical application, real-world case studies, and interactive sessions, this course is designed to enhance participants' skills and confidence in managing complex drilling projects. The unique combination of technical expertise, safety measures, and quality control makes this course an invaluable resource for professionals in the drilling industry.



فئات الدورات التدريبية



HR TRAINING & DEVELOPMENT

دورات إدارة و تطوير الموارد البشرية



دورات إدارة و تحليل البيانات ودورات علم البيانات



دورات إدارة الجودة وتطوير العمليات



الدورات التدريبية في مجال البيئة والاستدامة



دورات التسويق وإدارة علاقات العملاء وإدارة المبيعات



دورات التدريب القانوني والمشتريات والتعاقدات



دورات الاتصال الجماهيري و السياسات والعلاقات العامة



دورات النظم السيبراني ودورات تقنية المعلومات



دورات الصيانة ودورات المجالات الهندسية المتنوعة



دورات الصحة والسلامة والأمن المهني



دورات السكرتارية و إدارة المكاتب



دورات الحوكمة وإدارة المخاطر والامتثال



فئات الدورات التدريبية



دورات معتمدة بشهادة CPD



دورات في مجالات القيادة والإدارة



دورات المهارات الشخصية وتطوير الذات



دورات المحاسبة و التمويل و دورات الإدارة
الهائية



دورات مكتب إدارة المشاريع وإدارة المشاريع
الرشيقية



دورات معتمدة من قبل هيئات دولية

مدن التدريب



اسطنبول - تركيا



أمستردام - هولندا



أكرا - غانا



أثينا - اليونان



الرياض - المملكة العربية السعودية



الدوحة - قطر



الدار البيضاء - المغرب



الجبيل - المملكة العربية السعودية



باريس - فرنسا



المنامة - مملكة البحرين



الكويت - الكويت



القاهرة - مصر



براغ - جمهورية التشيك



بانكوك - تايلند



بالي - جمهورية إندونيسيا



باكو - أذربيجان

مدن التدريب



جاكرتا - جمهورية اندونيسيا



تبليسي - جورجيا



بوكيت - تايلاند



برشلونة - إسبانيا



روما - إيطاليا



دبي - الإمارات العربية المتحدة



جوهانسبرغ - جنوب إفريقيا



جنيف - سويسرا



شرم الشيخ - مصر



سيول - كوريا الجنوبية



سان دييغو - الولايات المتحدة الأمريكية



زنجبار - تنزانيا



طوكيو - اليابان



طشقند - أوزبكستان



طرابزون - تركيا



شيكاغو - الولايات المتحدة الأمريكية

مدن التدريب



كوالالمبور - ماليزيا



فيينا - النمسا



عن بعد - منصة زووم



عمان - المملكة الأردنية الهاشمية



ماربيا - اسبانيا



لندن - المملكة المتحدة



لانكاوي - ماليزيا



كيب تاون - جنوب إفريقيا



ميلان - إيطاليا



مونترال - سويسرا



مسقط - سلطنة عمان



مدريد - إسبانيا



نيس - فرنسا



نيروبي - كينيا



ميونخ - ألمانيا

WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



AGILE LEADERS
Training Center

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