



The Complete Drilling Course: Technology, Safety Measures, and Quality Control

28 Apr - 16 May 2026
Kuala Lumpur



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Ref.: 36312_23306 **Date:** 28 Apr - 16 May 2026 **Location:** Kuala Lumpur **Fees:** 9800 **Euro**

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

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

Day 2: Specialized Safety Procedures

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

Day 3: Advanced Drilling Technologies

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

Day 4: Drilling Engineering and Mechanics

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



Day 5: Drilling Fluids and Wellbore Management

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

Day 6: Environmental and Safety Considerations

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

Day 7: Quality Assurance and Control in Drilling

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

Day 8: Equipment Management and Inspection

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



Day 9: Vendor and Supply Chain Management

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

Day 10: Advanced QAQC Practices

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

Day 11: Risk Management and Incident Response

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

Day 12: Technological Innovations and Future Trends

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



Day 13: Practical Applications and Workshop

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

Day 14: Course Wrap-Up and Certification

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

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.



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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.



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