

Drilling Engineering, Well Design & Safety Management

Kuala Lumpur (Malaysia)

29 September - 3 October 2025

UK Training

PARTNER



Drilling Engineering, Well Design & Safety Management

Code: OG28 From: 29 September - 3 October 2025 City: Kuala Lumpur (Malaysia) Fees: 4900 Pound

Introduction

Drilling Engineering, Well Design & Safety Management is a cornerstone discipline in the oil and gas industry, ensuring efficient drilling operations, safe and sustainable well designs, and strict compliance with safety standards. This comprehensive training program provides participants with the theoretical knowledge and practical skills needed to manage every stage of drilling – from planning and design to execution, risk management, and operational safety.

Through an integrated training approach, participants will learn to analyze geological variables, select appropriate drilling techniques, design high-performance wells, and apply safety procedures that minimize operational risks while maintaining production continuity.

Course Objectives

- Understand fundamental and advanced principles of drilling engineering.
- Develop skills to design wells according to technical and industry standards.
- Select appropriate drilling techniques based on geological formations.
- Apply occupational health and safety standards in drilling operations.
- Manage potential risks during drilling activities.
- Use design and simulation software to support technical decisions.
- Monitor and ensure drilling quality compliance.
- Create emergency response plans for drilling operations.

Course Outlines

Day 1: Fundamentals of Drilling Engineering

- Overview of drilling engineering and its role in the oil and gas sector.
- Components and functions of drilling rigs.
- Types of drilling operations and their characteristics.
- Factors influencing drilling method selection.
- Monitoring and control techniques during drilling.
- Case study: Improving drilling performance.

Day 2: Well Design

- Engineering principles of well design.
- Selection of casing and cementing materials.
- Determining casing depths and stage programs.
- Impact of geological pressures on design.
- Well-designed simulation tools and techniques.
- Workshop: Designing a virtual well.



Day 3: Advanced Drilling Techniques

- Directional drilling and its role in reservoir targeting.
- Horizontal drilling and its production benefits.
- Managed pressure drilling techniques.
- Modern drilling tools and smart monitoring systems.
- Enhancing drilling efficiency through data analytics.
- Practical exercise: Analyzing drilling data.

Day 4: Safety & Risk Management

- Global safety standards in drilling operations.
- Risk assessment methodologies during drilling.
- Emergency response and evacuation planning.
- Blowout prevention BOP systems and controls.
- Managing environmental risks in drilling.
- Case study: Incident management in drilling sites.

Day 5: Evaluation & Course Wrap-Up

- Comprehensive review of learned concepts.
- Evaluation of participant well designs and drilling plans.
- Analyzing safety issues and mitigation strategies.
- Developing drilling performance improvement plans.
- Final integrated exercise combining design and safety.
- Certificate award and course closure.

Why Attend this Course: Wins & Losses!

- Gain a complete understanding of drilling engineering, well design, and safety management.
- Improve technical decision-making in complex operational environments.
- Learn the latest drilling and design technologies.
- Enhance operational efficiency and reduce costs.
- Strengthen safety measures and reduce operational risks.
- Apply knowledge through hands-on exercises and real-world scenarios.
- Earn an internationally recognized professional certificate.
- Improve leadership in managing field and technical teams.

Conclusion

The Drilling Engineering, Well Design & Safety Management course delivers a complete framework for developing the technical and managerial skills needed to execute drilling operations efficiently while ensuring the highest safety standards. By combining theory with practical application, it enables participants to design and execute safe, efficient wells, manage operational risks, and achieve production goals with quality and precision.

Mastering these skills will not only improve operational performance but also enhance the ability to face technical and field challenges with confidence and competence.



Blackbird Training Cities

Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Annecy (France)



Bordeaux (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden)



Podgorica (Montenegro)



Batumi (Georgia)



Salzburg (Austria)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)



Paris (France)



Athens (Greece)



Barcelona (Spain)



Munich (Germany)



Geneva (Switzerland)



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels (Belgium)



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich (Switzerland)



Manchester (UK)



Milan (Italy)

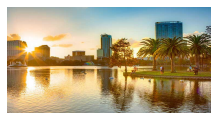


Blackbird Training Cities

USA & Canada



Los Angeles (USA)



Orlando, Florida (USA)



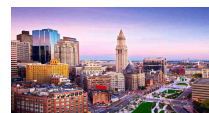
Online



Phoenix, Arizona (USA)



Houston, Texas (USA)



Boston, MA (USA)



Washington (USA)



Miami, Florida (USA)



New York City (USA)



Seattle, Washington (USA)



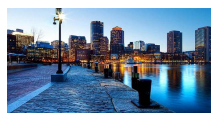
Washington DC (USA)



In House



Jersey, New Jersey (USA)



Toronto (Canada)

ASIA



Baku (Azerbaijan)
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Melbourne (Australia)
Korea



Phuket (Thailand)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Seoul (South)



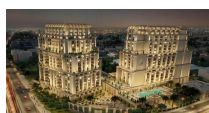
Pulau Ujong (Singapore)



Irbid (Jordan)



Jakarta (Indonesia)



Amman (Jordan)



Beirut



Blackbird Training Cities

AFRICA



Kigali (Rwanda)



Cape Town (South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Morocco)



Nairobi (Kenya)



Zanzibar (Tanzania)



Tangier (Morocco)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



Blackbird Training Clients



MANNAI Trading
Company WLL,
Qatar



Alumina Corporation
Guinea



Booking.com
Netherlands



OXFAM

Oxfam GB International
Organization,
Yemen



Capital Markets
Authority,
Kuwait



Waltersmith Petroman Oil Limited
Nigeria



Qatar National Bank
(QNB),
Qatar



مؤسسة قطر
Qatar Foundation

Qatar Foundation,
Qatar



AFRICAN UNION ADVISORY
BOARD ON CORRUPTION,
Tanzania



مؤسسة الكويت للتقدم العلمي
Kuwait Foundation for the Advancement of Sciences

KFAS
Kuwait



Reserve Bank of
Malawi,
Malawi



Central Bank of Nigeria
Nigeria



Ministry of Interior
Kingdom of Saudi Arabia

Ministry of Interior,
KSA



Mabruk Oil Company
Libya



Saudi Electricity
Company,
KSA



BADAN PENGELOLA
KEUANGAN Haji,
Indonesia



NATO
Italy



ENI CORPORATE
UNIVERSITY,
Italy



Gulf Bank
Kuwait



المؤسسة العامة للتأمينات الاجتماعية
General Organization for
Social Insurance
KSA



Defence Space Administration
Nigeria



National Industries
Group (Holding),
Kuwait



Hamad Medical
Corporation,
Qatar



USAID
Pakistan



STC Solutions,
KSA



North Oil company,



EKO Electricity



Oman Broadband



UNITED NATIONS
UN.



هيئة تنظيم الكهرباء - عمان
Authority for
Electricity Regulation, Oman

UK Training
PARTNER



Blackbird Training Categories

Management & Admin

Entertainment & Leisure
Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Elevation

Technical Courses

Artificial Intelligence (AI)
Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training



International House 185 Tower Bridge
Road London SE1 2UF United Kingdom



+44 7401 1773 35
+44 7480 775526



Sales@blackbird-training.com



www.blackbird-training.com

UK Training

PARTNER

