

Advanced Electrical Submersible Pumps (ESP)

Barcelona (Spain)

9 - 13 December 2024



www.blackbird-training.com



Advanced Electrical Submersible Pumps (ESP)

Code: OG28 From: 9 - 13 December 2024 City: Barcelona (Spain) Fees: 5100 Pound

Introduction

This course offers an advanced understanding of Electric Submersible Pump ESP systems, with a focus on their operation, design, troubleshooting, and optimization. Participants will develop the skills to maximize pump performance, minimize downtime, and extend the lifespan of ESPs, especially in complex and high-production wells.

Course Objectives

By the end of this course, participants will:

- Acquire advanced knowledge of ESP operation and system components.
- · Learn techniques for troubleshooting and resolving common ESP issues.
- Understand optimization strategies to improve ESP performance and lifespan.
- Enhance design capabilities for complex well applications.
- Analyze real-world case studies to reinforce their learning.

Course Outlines

Day 1: Advanced Principles of ESP Operation

- Overview of ESP components and their functions.
- Detailed explanation of ESP system operations.
- Factors affecting ESP efficiency in complex reservoirs.
- Key performance indicators for ESP systems.
- Case studies highlighting operational challenges.

Day 2: ESP Design for Complex Applications

- Advanced design principles for ESP systems.
- Designing ESPs for high-production and complex wells.
- Considering fluid properties in the design process.
- Hands-on design exercises.
- Review of successful ESP design case studies.

Day 3: ESP Installation Best Practices

• Key considerations for ESP installation.





- Techniques to ensure proper system alignment.
- Managing ESP installations in deep and offshore wells.
- Common installation mistakes and how to avoid them.
- Real-world installation scenarios and lessons learned.

Day 4: Troubleshooting and Problem Resolution

- Common ESP failures and their root causes.
- Diagnosing electrical and mechanical issues in ESP systems.
- Tools and techniques for effective troubleshooting.
- Strategies to prevent recurring ESP problems.
- Interactive troubleshooting exercises.

Day 5: Optimizing ESP Performance

- Monitoring ESP systems to ensure optimal performance.
- Techniques to reduce downtime and maximize operational efficiency.
- Strategies to extend the lifespan of ESP pumps.
- Case studies on successful ESP optimizations.
- Final review and participant feedback session.





Blackbird Training Cities

Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovarsa)ais (Portugal)





Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Annecy (France)



Bordeax (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden) (Netherlands)



Podgorica (Montenegro)



Batumi (Georgia)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)



Paris (France)



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)

Africa



Baku (Azerbaijan) (Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney (Australia)



Tokyo (Japan)



Jeddah(KSA)



Riyadh(KSA)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Pulau Ujong (Singapore)



Jakarta (Indonesia)



Amman (Jordan)



Beirut (Lebanon)





Blackbird Training Cities

Asia



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



ANNAI Trading Company WLL, Qatar



Alumina Corporation Guinea



Netherlands



Oxfam GB International Organization, Yemen



Capital Markets Authority, **Kuwait**



Nigeria



National Bank (ONB), **Qatar**



Qatar Foundation, **Qatar**



AFRICAN UNION ADVISORY BOARD ON CORRUPTION, Tanzania



Kuwait



Reserve Bar Malawi, **Malawi**



Nigeria



Ministry of Interior, KSA



Mabruk Oil Company **Libya**



Saudi Electricity



BADAN PENGELOLA KEUANGAN Haji, Indonesia



Italy



ENI CORPORATE UNIVERSITY, Italy



Kuwait



General Organization for Social Insurance ral C. Social Insu KSA



Nigeria



National Industries Group (Holding), **Kuwait**



Hamad Medical Corporation, Qatar



USAID **Pakistan**





North Oil company,



EKO Electricity



Oman Broadband



UN.







Blackbird Training Categories

Management & Admin

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

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





+44 7401 1773 35 +44 7480 775526

Sales@blackbird-training.com

www.blackbird-training.com

