

Advanced Electrical Submersible Pumps (ESP)

Amman (Jordan)

17 - 21 August 2025

UK Training

PARTNER



Advanced Electrical Submersible Pumps (ESP)

Code: OG28 From: 17 - 21 August 2025 City: Amman (Jordan) Fees: 4000 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 Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Anney (France)



Bordeaux (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)

UK Training
PARTNER



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



UK Training
PARTNER



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



BLACKBIRD
FOR 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

