

## Advanced Electrical Submersible Pumps (ESP)

*London (UK)*

*9 - 13 February 2026*

UK Training

# PARTNER



## Advanced Electrical Submersible Pumps (ESP)

Code: OG28 From: 9 - 13 February 2026 City: London (UK) Fees: 5100 Pound

### Introduction

This Electric Submersible Pump ESP Training course offers an advanced understanding of electric submersible pumps ESPs, focusing on their operation, design, troubleshooting, and optimization. The training is designed to equip participants with the knowledge and skills to maximize pump performance, minimize downtime, and extend the lifespan of ESPs, particularly in challenging, high-production wells. Whether you are working with well submersible pumps or managing complex reservoir applications, this course will enhance your understanding of the core components and best practices for optimizing ESP systems.

### Course Objectives

By the end of this course, participants will:

- Acquire advanced knowledge of ESP operation and the key components of electrical submersible pumps.
- Learn effective techniques for troubleshooting and resolving common ESP failures.
- Understand optimization strategies to improve ESP performance and extend the submersible pump lifespan.
- Enhance design capabilities for complex well applications and ESP installation.
- Analyze real-world case studies to reinforce learning and better understand submersible pump repair and performance optimization.

### Course Outlines

#### Day 1: Advanced Principles of ESP Operation

- Overview of ESP components and their functions.
- Detailed explanation of ESP system operations and key performance indicators.
- Factors affecting ESP efficiency in complex reservoirs.
- Common challenges faced during ESP operation in high-production wells.
- Case studies of submersible pump utility in various scenarios.

#### Day 2: ESP Design for Complex Applications

- Advanced design principles for electrical submersible pumps.
- Designing ESPs for high-production and complex wells.
- Considering fluid properties during the ESP design process.
- Hands-on design exercises.
- Review of successful ESP design case studies and lessons learned.

#### Day 3: ESP Installation Best Practices



- Key considerations for ESP installation.
- Techniques to ensure proper system alignment and integration.
- Managing ESP installations in deep, offshore, and high-pressure wells.
- Common installation mistakes and preventive strategies.
- Real-world installation scenarios and lessons learned.

#### Day 4: Troubleshooting and Problem Resolution

- Diagnosing common ESP failures and their root causes.
- Troubleshooting electrical and mechanical issues in ESP systems.
- Tools and techniques for effective ESP troubleshooting.
- Preventing recurring submersible pump issues with proactive solutions.
- Interactive ESP troubleshooting exercises to enhance practical skills.

#### Day 5: Optimizing ESP Performance

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

#### Why Attend This Course: Wins & Losses!

- Maximize ESP Performance: Learn how to achieve the best performance from electrical submersible pumps, including troubleshooting techniques to address failures and optimize efficiency.
- Hands-On Knowledge: Engage in ESP system design, installation best practices, and real-world troubleshooting exercises to improve your practical capabilities.
- Industry-Relevant Skills: Whether dealing with complex well applications or high-pressure environments, this course prepares you to solve submersible pump pressure and performance challenges.
- Extend Pump Lifespan: Gain strategies for reducing downtime, performing efficient repairs, and extending the lifespan of ESP pumps in demanding applications.
- Real-World Case Studies: Understand real challenges and successful implementations of ESP systems in the field, reinforcing learning with practical solutions.

#### Conclusion

This Electrical Submersible Pump Training course provides in-depth insights into ESP systems, from design and installation to troubleshooting and performance optimization. Whether you're new to ESP systems or looking to deepen your expertise, this program equips you with essential knowledge and practical skills to manage submersible pump utilities effectively. By the end of this training, you will be equipped to maximize the performance, efficiency, and longevity of electric submersible pumps in any challenging environment, ensuring success in complex and high-production well applications.



# 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 GB International  
Organization,  
Yemen



Capital Markets  
Authority,  
Kuwait



Waltersmith Petroman Oil Limited  
Nigeria



Qatar National Bank  
(QNB),  
Qatar



Qatar Foundation,  
Qatar



AFRICAN UNION ADVISORY  
BOARD ON CORRUPTION,  
Tanzania



KFAS  
Kuwait



Reserve Bank of  
Malawi,  
Malawi



Central Bank of Nigeria  
Nigeria



Ministry of Interior  
Kingdom of Saudi Arabia  
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  
Authority for

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

