

## Advanced Electrical Submersible Pumps (ESP)

*Paris (France)*

*30 December 2024 - 3 January 2025*

UK Traininig

# PARTNER



# Advanced Electrical Submersible Pumps (ESP)

Code: OG28 From: 30 December 2024 - 3 January 2025 City: Paris (France) 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 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)





## 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



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

 +44 7401 1773 35  
+44 7480 775526

 [Sales@blackbird-training.com](mailto:Sales@blackbird-training.com)

 [www.blackbird-training.com](http://www.blackbird-training.com)

