

Petroleum Production Optimization & Artificial Lift Systems

London (UK)

29 March - 2 April 2027

UK Training

PARTNER



Petroleum Production Optimization & Artificial Lift Systems

Code: OG32 From: 29 March - 2 April 2027 City: London (UK) Fees: 6100 Pound

Introduction

Petroleum Production Optimization & Artificial Lift Systems is a critical field that drives efficiency, maximizes oil well productivity, and ensures sustainable operations. Success in production management depends on a combination of accurate performance analysis, selecting the right artificial lift method, and applying advanced strategies to control flow rates and manage pressures.

This course provides participants with in-depth knowledge and practical skills to evaluate production performance, identify operational challenges, and select the most suitable artificial lift system for different reservoir conditions. Through comprehensive training content, participants will learn to develop data-driven optimization plans, enhance operational efficiency, reduce costs, and ensure long-term production sustainability.

Course Objectives

- Understand advanced principles of petroleum production optimization.
- Analyze well performance and identify improvement opportunities.
- Learn the types of artificial lift systems and select the optimal one for each case.
- Apply production control and pressure management techniques.
- Use modeling and simulation tools to support technical decisions.
- Develop preventive maintenance strategies to extend equipment life.
- Evaluate the economic feasibility of different artificial lift methods.
- Align optimization strategies with organizational production goals.

Course Outlines

Day 1: Fundamentals of Production Optimization

- Introduction to petroleum production operations.
- Key factors influencing production efficiency.
- Defining and monitoring well performance indicators.
- Measuring and analyzing flow rates.
- The role of continuous monitoring in optimization.
- Case study: Enhancing production in a low-performing well.

Day 2: Artificial Lift Systems - Concepts and Types

- Definition and importance of artificial lift.
- Overview and comparison of main artificial lift methods.
- Criteria for selecting the right artificial lift system.
- Components and operation of electric submersible pumps ESP.
- Basics of sucker rod pump operations.
- Workshop: Selecting the optimal lift system for a specific well scenario.



Day 3: Practical Applications and Control Techniques

- Adjusting pumping rates for maximum efficiency.
- Pressure management to reduce operational issues.
- Strategies for handling sand and associated gas.
- Enhancing artificial lift performance through data analytics.
- Assessing operational risks in artificial lift operations.
- Practical exercise: Analyzing operational data.

Day 4: Modeling and Technical Analysis

- Basics of production modeling.
- Using simulation software for artificial lift systems.
- Scenario analysis for operational decision-making.
- Assessing the impact of operational changes on production.
- Developing optimization plans based on analytical results.
- Case study: Simulation-based artificial lift optimization.

Day 5: Final Evaluation and Continuous Improvement Plans

- Comprehensive review of course concepts.
- Performance analysis after implementing optimization strategies.
- Long-term production improvement planning.
- Developing preventive maintenance programs for equipment.
- Final project: Creating a complete production optimization plan.
- Course closure and certification.

Why Attend this Course: Wins & Losses!

- Gain deep expertise in petroleum production optimization and artificial lift systems.
- Improve decision-making through data-driven analysis.
- Enhance operational efficiency while reducing costs.
- Extend equipment life through preventive maintenance.
- Learn about the latest artificial lift technologies.
- Strengthen strategic production planning capabilities.
- Apply practical skills in real-world scenarios.
- Earn a recognized professional certification.

Conclusion

The Petroleum Production Optimization & Artificial Lift Systems course offers a complete framework for maximizing production efficiency and sustainability by combining theoretical knowledge with practical applications. It equips participants with the tools and methodologies to choose the best artificial lift techniques, analyze performance, and implement well-structured optimization plans that unlock the full potential of oil wells.

By adopting these strategies, professionals not only improve technical performance but also enhance strategic decision-making to secure long-term success in competitive production environments.



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



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.



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)
Sustainability, ESG & Corporate Responsibility
Advanced 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

