

# **Reciprocating & Screw Compressors Operation Mastery Course**

Oil & Gas Engineering  
Madrid (Spain)  
11 - 15 Aug 2025

UK Traininig

# **PARTNER**



## Reciprocating & Screw Compressors Operation Mastery Course

**Ref:** 321556\_140960 **Date:** 11 - 15 Aug 2025 **Location:** Madrid (Spain) **Fees:** 4400 **Euro**

### Course Description

This intensive 5-day course provides a comprehensive understanding of reciprocating and screw compressors used in industrial applications. Participants will learn the working principles, operation, maintenance, and optimization techniques for both compressor types. The course combines theoretical knowledge with practical hands-on exercises to ensure a well-rounded learning experience.

### Learning Objectives

- Understand the working principles of reciprocating and screw compressors
- Master operation and maintenance procedures for both compressor types
- Learn to optimize compressor efficiency and performance
- Develop troubleshooting skills for common compressor issues
- Gain practical experience through hands-on exercises and simulations

### Course Modules

#### Day 1: Introduction to Compressor Technology

- Overview of compression technologies
- Reciprocating compressor basics
- Screw compressor fundamentals
- Comparison of reciprocating and screw compressors

#### Day 2: Reciprocating Compressor Deep Dive

- Working principle and components
- Operation and control systems
- Maintenance procedures
- Performance optimization techniques

#### Day 3: Screw Compressor In-depth Study

- Screw compressor design and operation
- Lubrication and cooling systems
- Maintenance best practices
- Efficiency improvement strategies

A graphic of a chessboard with several chess pieces (a king, a queen, a rook, and a pawn) in gold and silver. The text 'UK Training' is above the word 'PARTNER' in a large, bold, black sans-serif font.

UK Training  
**PARTNER**

## Day 4: Advanced Topics and Troubleshooting

- Energy efficiency in compressor systems
- Common faults and diagnostics
- Troubleshooting techniques
- Case studies and problem-solving exercises

## Day 5: Practical Applications and Future Trends

- Industry-specific applications
- Compressor selection criteria
- Emerging technologies and trends
- Hands-on exercises and simulations

## Practical Wins for Participants

- Ability to optimize compressor performance, leading to energy savings
- Enhanced troubleshooting skills, reducing downtime in industrial operations
- Improved maintenance practices, extending equipment lifespan
- Confidence in selecting and operating the right compressor for specific applications

## Blackbird training cities



Amman (Jordan)



Amsterdam (Netherlands)

Accra (Ghana)

Annecy (France)

Baku (Azerbaijan)

Bali (Indonesia)

Bangkok (Thailand)

Bangkok (Thailand)

Barcelona (Spain)

Batumi (Georgia)

Beijing (China)

Beirut (Lebanon)

Berlin (Germany)

Birmingham (UK)

Bordeaux (France)

Boston, Massachusetts (USA)

Brussels (Belgium)

Cairo (Egypt)

Cape Town (South Africa)

Casablanca (Morocco)

Cascais (Portugal)

Copenhagen (Denmark)

Doha (Qatar)

Dubai (UAE)

Düsseldorf (Germany)

UK Training  
**PARTNER**





## Blackbird Training Category



Human Resource



Audit & Quality Assurance



Finance, Accounting, Budgeting



Marketing, Sales, Customer Service



Secretary & Admin



Law and Contract Management



Project Management



IT & IT Engineering



Supply Chain & Logistics



Management & Leadership



Professional Skills



Oil & Gas Engineering



Health & Safety



Telecom Engineering



Hospital Management



Customs & Safety



Aviation



C-Suite Training



Agile and Refinement



## Blackbird training Clients



MANNAI Trading  
Company WLL,  
Qatar



Alumina Corporation  
Guinea



**Booking.com**

Booking.com  
Netherlands



**OXFAM**

Oxfam GB International  
Organization,  
Yemen



Capital Markets  
Authority

Capital Markets  
Authority,  
Kuwait



Waltersmith Petroman Oil Limited  
Nigeria



Qatar National Bank  
(QNB),  
Qatar



مؤسسة قطر  
Qatar Foundation

Qatar Foundation,  
Qatar



AFRICAN UNION ADVISORY  
BOARD ON CORRUPTION,  
Tanzania



مؤسسة الكويت للتقدم العلمي  
Kuwait Foundation for the Advancement of Sciences

KFAS  
Kuwait



Reserve Bank of  
Malawi,  
Malawi



Central Bank of Nigeria  
Nigeria



Ministry of Interior  
Kingdom of Saudi Arabia

Ministry of Interior,  
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

UK Training  
**PARTNER**



LONDON TRAINING PROVIDER



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



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



+44 7480 775526 / +44 7401 177335