

Comprehensive Course Reciprocating & screw  
compressors operating

*Amsterdam*

*3 - 14 November 2025*

UK Traininig

**PARTNER**



# Comprehensive Course Reciprocating & screw compressors operating

Code: OG28 From: 3 - 14 November 2025 City: Amsterdam Fees: 8300 Pound

## Introduction

Welcome to the Advanced Course on Reciprocating and Screw Compressors Operation. This in-depth training is designed for compressor operators, maintenance technicians, engineers, and anyone keen to expand their expertise in reciprocating screw compressors. The course covers a comprehensive range of topics, from fundamental principles to advanced operating techniques and optimization strategies, equipping participants with the skills to enhance efficiency and operational safety in their roles.

Participants will explore the nuances of reciprocating vs screw compressors, understanding the advantages of screw compressors and how to optimize both types for specific industrial applications. Whether you're looking to deepen your knowledge of screw compressor operation or learn how to troubleshoot issues in reciprocating compressors, this course offers the tools and insights needed to succeed.

## Course Objectives

By the end of this course, participants will:

- Gain an In-Depth Understanding of Compressor Mechanisms: Develop a deep knowledge of the principles, components, and functions of reciprocating compressors and screw compressors, exploring their unique advantages and applications in various industries.
- Learn Advanced Techniques for Compressor Operation: Master advanced techniques for reciprocating vs. screw compressor operation, focusing on efficiency, safety, and regulatory compliance.
- Develop Troubleshooting Skills: Acquire diagnostic skills to identify and address common issues in screw compressor operation and reciprocating compressors, minimizing downtime and optimizing performance.
- Stay Updated on Advanced Technologies: Discover the latest advancements in compressor technologies, including variable speed drives, oil-free compression, and automation integration, positioning yourself at the forefront of the industry.
- Master Preventive and Corrective Maintenance: Learn best practices for preventive and corrective maintenance, inspection, lubrication, and repair procedures that extend the lifespan of compressors.
- Explore Energy Efficiency and Optimization Strategies: Understand energy-saving methods and performance optimization techniques that reduce costs and maximize compressor system efficiency.
- Understand Industry Standards and Safety Regulations: Familiarize yourself with key safety guidelines, industry standards, and regulatory compliance for operating screw type compressors and reciprocating compressors.

## Course Outlines

### Day 1: Introduction to Compressors

- Overview of various compressor types



- Comparison of reciprocating vs. screw compressors
- Basic principles of compression
- Common applications and industry uses

## Day 2: Reciprocating Compressors

- Working principles and performance characteristics of reciprocating compressors
- Key components, valve types, and efficiency calculations

## Day 3: Screw Compressors

- Principles of screw compressors and the impact of screw profiles on compression
- Internal components, control methods, and capacity regulation

## Day 4: Compressor Operation and Control

- Start-up and shutdown procedures
- Load management and safety considerations
- Control systems, instrumentation, and screw compressor operation specifics

## Day 5: Compressor Performance Analysis

- Key performance metrics and efficiency calculations
- Troubleshooting performance issues and optimization techniques

## Day 6: Compressor Maintenance

- Importance of preventive and corrective maintenance in screw compressor training
- Detailed inspection, lubrication, and repair procedures

## Day 7: Safety and Regulatory Compliance

- Safety best practices and risk assessment
- Industry standards for reciprocating screw compressor operation
- Emergency procedures and hazard identification

## Day 8: Advanced Compressor Technologies

- Benefits of variable speed drives, oil-free compression technology
- Sound and vibration control measures

## Day 9: Energy Efficiency and Optimization

- Energy-saving techniques, heat recovery methods
- Life cycle cost analysis and optimization of system design

## Day 10: Practical Applications and Case Studies



- Real-world case studies on compressor operation and maintenance
- Group discussions and problem-solving exercises

## Why Attend this Course: Wins & Losses!

- Gain expertise in both reciprocating compressors and screw compressors, understanding the advantages of rotary screw compressors.
- Master screw compressor operation techniques and learn how to troubleshoot issues effectively.
- Learn how to differentiate between reciprocating vs screw compressors and select the right compressor for your needs.
- Acquire best practices in screw compressor training to enhance operational efficiency and safety.
- Stay ahead with the latest compressor technologies and optimization strategies.
- Reduce operational costs through energy efficiency and performance optimization.

## Conclusion

This advanced training course equips participants with an all-encompassing understanding of reciprocating and screw compressors, from operational fundamentals to advanced techniques in energy efficiency and system optimization. By completing this course, attendees will be able to apply best practices, enhance safety, and drive operational excellence with confidence.

Join this advanced training to master the essentials of screw compressor training and gain an industry-leading advantage in compressor operation and maintenance.





# 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)  
(Kuwait)



Phuket (Thailand)



Shanghai (China)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City



Seoul (South Korea)



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



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)  
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

