

Natural Gas Compressors and Turbines (Siemens Equipment)

Barcelona (Spain)

10 - 14 August 2026

UK Traininig

PARTNER



Natural Gas Compressors and Turbines (Siemens Equipment)

Code: OG28 From: 10 - 14 August 2026 City: Barcelona (Spain) Fees: 5100 Pound

Introduction

This course is designed to provide participants with comprehensive knowledge of Siemens gas compressors and turbines. It covers the operation, troubleshooting, maintenance, startup, and shutdown procedures of these critical systems, along with essential skills needed to improve operational efficiency and boost operator confidence. The course also explores natural gas compressor stations, turbine power, and maintenance practices, offering a well-rounded understanding of how to optimize performance in natural gas compressor operations and natural gas turbine mechanics.

Course Objectives

By the end of this training, participants will be able to:

- Develop effective troubleshooting skills for Siemens gas compressors and turbines.
- Master proper startup and shutdown procedures to maximize equipment lifespan and performance.
- Strengthen their understanding of core engineering concepts, control systems, and natural gas turbine mechanics.
- Gain a clear insight into the basic operations of compressors, turbines, and natural gas compressor stations.
- Build confidence in both console and field operations, improving decision-making skills.
- Enhance their ability to perform maintenance and reduce the risks associated with compressor and turbine failure.

Course Outlines

Day 1: Introduction to Natural Gas Compressors and Turbines

- Overview of Siemens gas compressors and turbines
- Breakdown of key components and their functions
- Basic operational principles of natural gas compressors and turbines
- Understanding system configurations and workflows in compressor stations
- Safety protocols for the operation of compressors and turbines
- Key considerations for operating gas turbines and maintaining natural gas compressors

Day 2: Troubleshooting and Maintenance

- Common issues encountered in natural gas compressors and turbines
- Effective troubleshooting techniques and best practices
- Hands-on exercises in diagnosing faults in compressors and turbines
- Maintenance strategies for Siemens natural gas compressors and turbines
- Case studies on operational challenges and solutions
- Importance of ongoing maintenance in prolonging the life of gas turbines and compressors

Day 3: Startup and Shutdown Procedures

- Safe and efficient startup processes for natural gas compressors and turbines
- Shutdown protocols to optimize the lifespan of equipment
- Pre-startup checks and post-shutdown procedures
- Minimizing risks during transitions between startup and shutdown phases
- Interactive exercises on startup and shutdown scenarios for gas turbines and compressors

Day 4: Core Unit Operations

- Understanding core operations in natural gas compressor stations
- Key principles of heat exchangers, separators, and pumps in turbine and compressor systems
- The role of control systems in compressor and turbine performance
- Techniques for optimizing compressor and turbine operations
- Practical application of unit operations in real-world natural gas compressor stations

Day 5: Skill Development and Confidence Building

- Strengthening problem-solving and decision-making skills for compressor and turbine operations
- Developing proficiency in both console operations and fieldwork
- Team-based activities to enhance communication and coordination
- Simulations for applying skills in practical scenarios related to natural gas turbines and compressors
- Course wrap-up, Q&A session, and evaluation

Why Attend This Course: Wins & Losses!

- **Gain Advanced Troubleshooting Skills:** Learn how to diagnose issues with Siemens natural gas compressors and turbines effectively, a must-have skill for anyone involved in compressor maintenance and repair.
- **Boost Operational Efficiency:** Master the critical startup and shutdown procedures that reduce downtime and increase the overall performance of gas turbine systems.
- **Increase Confidence in Equipment Handling:** Build confidence in working with Siemens natural gas compressors and turbines, and become proficient in both console and field operations.
- **Practical Hands-On Learning:** Participate in live simulations and hands-on training with state-of-the-art Siemens equipment, helping you gain real-world experience with natural gas turbines and compressors.
- **Understand Core Engineering Concepts:** Deepen your knowledge of the principles behind turbine power, compressor station configurations, and the operation of control systems that drive gas turbines.
- **Improve Maintenance and Risk Reduction:** Learn proactive maintenance strategies to prevent failures and extend the lifespan of gas turbines and compressors.

Conclusion

By attending this course, participants will acquire the skills necessary to operate, maintain, and troubleshoot Siemens natural gas compressors and turbines with confidence. The course provides a deep understanding of the technical aspects of compressor stations, turbine operations, and gas turbine mechanics. Whether you're looking to improve your natural gas compressor maintenance capabilities or optimize the performance of your turbines, this training will prepare you to excel in the field.

With practical knowledge and advanced skills, you will be equipped to handle both everyday operations and complex

PARTNER



challenges in the natural gas compressor and turbine industry.



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,
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
Electricity Regulation, Oman

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

