

Natural Gas Compressors and Turbines (Siemens Equipment)

Cairo (Egypt)

15 - 19 December 2024

UK Training

PARTNER



Natural Gas Compressors and Turbines (Siemens Equipment)

Code: OG28 From: 15 - 19 December 2024 City: Cairo (Egypt) Fees: 4000 Pound

Introduction

This course is designed to equip participants with comprehensive knowledge of Siemens natural gas compressors and turbines. It covers their operation, troubleshooting, startup, and shutdown procedures, while also providing the essential skills needed to boost operational efficiency and build operator confidence.

Course Objectives

By the end of this training, participants will:

- Acquire effective troubleshooting skills for Siemens equipment.
- Master the proper procedures for startup and shutdown.
- Strengthen their understanding of core engineering concepts and control systems.
- Gain a clear insight into the fundamental operations of compressors and turbines.
- Build confidence and improve operational skills for greater efficiency.

Course Outlines

Day 1: Introduction to Compressors and Turbines

- Overview of Siemens natural gas compressors and turbines
- Breakdown of key components and their functions
- Basic operational principles of compressors and turbines
- Understanding system configurations and workflows
- Safety protocols for compressor and turbine operations

Day 2: Troubleshooting and Maintenance

- Common issues encountered in compressors and turbines
- Troubleshooting techniques and best practices
- Hands-on exercises in fault diagnosis
- Maintenance strategies for Siemens equipment
- Case studies on operational challenges and their solutions

Day 3: Startup and Shutdown Procedures

- Safe and efficient startup processes for compressors and turbines
- Shutdown protocols to maximize equipment life
- Pre-startup checks and post-shutdown procedures



- Minimizing risks during transitions
- Interactive exercises on startup and shutdown scenarios

Day 4: Core Unit Operations

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

Day 5: Skill Development and Confidence Building

- Enhancing decision-making and problem-solving skills
- Developing proficiency in both console and field operations
- Team activities to improve communication and coordination
- Simulations for applying skills in practical contexts
- Course wrap-up, Q&A session, and evaluation



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BLACKBIRD
FOR 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

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