



*Training Course:
Pumps, Compressors & Turbines*

*11 - 15 July 2027
Cairo (Egypt)*

Training Course: Pumps, Compressors & Turbines

Training Course code: EN234690 From: 11 - 15 July 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Pumps, compressors, and turbines are critical rotating equipment used across industrial sectors such as oil & gas, power generation, and manufacturing. Their performance directly impacts system efficiency, energy consumption, and operational reliability. Understanding their principles, operation, and maintenance is essential for optimizing performance and minimizing downtime.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to operate, maintain, and troubleshoot pumps, compressors, and turbines effectively in industrial environments.

Course Objectives

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

- Understand the operating principles of pumps, compressors, and turbines
- Identify different types and applications of rotating equipment
- Analyze performance characteristics and efficiency factors
- Apply proper selection and sizing techniques
- Perform routine maintenance and condition monitoring
- Diagnose common faults and implement corrective actions
- Improve equipment reliability and lifecycle performance
- Ensure safe operation and compliance with industry standards

Target Audience

This program is designed for:

- Mechanical Engineers and Technicians
- Maintenance and Reliability Engineers
- Plant and Operations Personnel
- Oil & Gas and Power Generation Professionals
- Equipment Supervisors and Technical Specialists
- Engineers involved in rotating equipment management

Outline

Day 1: Fundamentals of Rotating Equipment

- Overview of pumps, compressors, and turbines
- Operating principles and classifications
- Key components and mechanical design
- Performance parameters and efficiency
- Safety considerations

Day 2: Pumps: Types, Operation, and Selection

- Centrifugal and positive displacement pumps
- Pump performance curves and characteristics
- Pump selection and sizing
- Installation and operational best practices
- Troubleshooting pump issues

Day 3: Compressors: Operation and Performance

- Types of compressors reciprocating, centrifugal, screw
- Compression principles and thermodynamics
- Performance evaluation and efficiency
- Control systems and operation
- Maintenance and troubleshooting

Day 4: Turbines: Principles and Applications

- Types of turbines steam, gas, hydraulic
- Energy conversion and efficiency
- Turbine operation and control
- Performance monitoring
- Maintenance strategies

Day 5: Maintenance, Reliability, and Optimization

- Condition monitoring techniques vibration, temperature
- Preventive and predictive maintenance
- Fault diagnosis and root cause analysis
- Reliability improvement strategies
- Case studies and real-world applications

Registration form on the Training Course: Pumps, Compressors & Turbines

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