



*Training Course:
Chillers: Operation & Maintenance of Chilled
Water Systems*

*25 - 29 April 2027
Cairo (Egypt)*

Training Course: Chillers: Operation & Maintenance of Chilled Water Systems

Training Course code: EN234602 From: 25 - 29 April 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Chilled water systems are central to HVAC operations in commercial, industrial, and district cooling applications. Efficient chiller operation and structured maintenance are essential for ensuring optimal performance, energy efficiency, and system reliability.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to operate, maintain, and troubleshoot chillers and chilled water systems in accordance with industry best practices.

Course Objectives

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

- Understand the fundamentals of chilled water systems and chiller operation
- Identify different types of chillers and their applications
- Operate chillers and auxiliary equipment effectively
- Apply preventive and predictive maintenance strategies
- Monitor system performance and energy efficiency
- Diagnose and troubleshoot common system issues
- Optimize system operation for improved efficiency
- Ensure compliance with safety and environmental standards

Target Audience

This program is designed for:

- HVAC and Mechanical Engineers
- Facility and Maintenance Engineers
- Chiller Plant Operators
- Energy and Facility Managers
- Maintenance Technicians and Supervisors
- Professionals involved in cooling systems operations

Outline

Day 1: Fundamentals of Chilled Water Systems

- Overview of chilled water systems and applications
- Types of chillers air-cooled, water-cooled, absorption
- System components chillers, pumps, cooling towers, AHUs
- Refrigeration cycle fundamentals
- Basic system operation

Day 2: Chiller Operation and Control

- Operating principles of chillers
- Control systems and automation
- Start-up and shutdown procedures
- Load management and sequencing
- Monitoring system performance

Day 3: Maintenance Strategies and Practices

- Preventive and predictive maintenance
- Inspection and servicing of chillers
- Cooling tower and condenser maintenance
- Water treatment and system cleanliness
- Maintenance planning and scheduling

Day 4: Troubleshooting and Performance Optimization

- Identifying common faults and issues
- Diagnosing system inefficiencies
- Troubleshooting compressors and heat exchangers
- Energy efficiency improvement techniques
- Performance monitoring and KPIs

Day 5: Advanced Applications and Case Studies

- Integration with building automation systems BAS
- Optimization of chilled water systems
- Sustainability and energy management
- Best practices in chiller plant operation
- Case studies and real-world applications

Registration form on the Training Course: Chillers: Operation & Maintenance of Chilled Water Systems

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