



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

*22 - 26 November 2026*

*Cairo (Egypt)*

*Holiday Inn & Suites Cairo Maadi, an IHG Hotel*

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

Training Course code: EN234602 From: 22 - 26 November 2026 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel 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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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....  
 Position: .....  
 Telephone / Mobile: .....  
 Personal E-Mail: .....  
 Official E-Mail: .....

### Company Information

Company Name: .....  
 Address: .....  
 City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....  
 Position: .....  
 Telephone / Mobile: .....  
 Personal E-Mail: .....  
 Official E-Mail: .....

### Payment Method

- Please find enclosed a cheque made payable to Global Horizon
- Please invoice me
- Please invoice my company

### Easy Ways To Register

Telephone:  
+201095004484 to  
provisionally reserve your  
place.

Fax your completed  
registration  
form to: +20233379764

E-mail to us :  
info@gh4t.com  
or training@gh4t.com

Complete & return the  
booking form with cheque  
to: Global Horizon  
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Giza, Giza Governorate,  
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