Global Horizon
TRAINING CENTER

Training Course:
District Cooling Systems

4 - 8 April 2027
Sharm El-Sheikh (Egypt)
Sheraton Sharm Hotel

Training Course:
District Cooling Systems

Training Course code: EN234633 From: 4 - 8 April 2027 Venue: Sharm El-Sheikh (Egypt) - Sheraton Sharm Hotel Training Course Fees: 5100 Euro

Introduction

District cooling systems provide centralized cooling to multiple buildings through a network of chilled water distribution, offering improved energy efficiency, reduced environmental impact, and optimized operational costs compared to conventional cooling methods. These systems are widely used in urban developments, commercial complexes, and industrial zones.

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

Course Objectives

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

- Understand the fundamentals and benefits of district cooling systems
- Identify system components including chillers, cooling towers, and distribution networks
- Analyze system design and load requirements
- Apply operational strategies for efficient cooling delivery
- Perform maintenance and troubleshooting of system components
- Optimize energy efficiency and system performance
- Ensure compliance with environmental and safety standards
- Support sustainable cooling solutions

Target Audience

This program is designed for:

- Mechanical and HVAC Engineers
- Facility and Energy Managers
- District Cooling Plant Operators
- Maintenance and Reliability Engineers
- Project Engineers in infrastructure and utilities
- Professionals involved in large-scale cooling systems

Outline

Day 1: Fundamentals of District Cooling Systems

- Overview of district cooling concepts and applications
- Comparison with conventional cooling systems
- System components and configurations
- Cooling load characteristics and demand profiles
- Environmental and economic benefits

Day 2: System Design and Engineering

- Cooling load calculation and system sizing
- Chiller plant design and selection
- Cooling towers and heat rejection systems
- Distribution network design piping and pumps
- Thermal energy storage systems

Day 3: Operation and Control Strategies

- Chiller plant operation and sequencing
- Pumping systems and flow control
- Temperature and pressure control
- SCADA and automation systems
- Energy management strategies

Day 4: Maintenance and Troubleshooting

- Preventive and predictive maintenance
- Inspection and servicing of system components
- Identifying and resolving operational issues
- Performance monitoring and diagnostics
- Safety practices and procedures

Day 5: Optimization, Sustainability, and Case Studies

- Energy efficiency improvement techniques
- System optimization and performance KPIs
- Integration with smart city infrastructure
- Sustainability and environmental considerations
- Case studies and real-world applications

Registration form on the Training Course: District Cooling 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
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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 3 Oudai street, Aldouki, Giza, Giza Governorate, Egypt.