€TRAINING

District Cooling Systems

2 - 6 September 2024
Casablanca (Morocco)
New Hotel

District Cooling Systems

REF: O2243 DATE: 2 - 6 September 2024 Venue: Casablanca (Morocco) - New Hotel Fee: 4675 Euro

Introduction:

This training program equips participants with comprehensive knowledge and practical skills in designing, operating, and maintaining district cooling systems. It empowers them to implement sustainable and energy-efficient cooling solutions.

Program Objectives:

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

- Understand the principles and components of district cooling systems.
- Learn about design considerations and operational strategies.
- Develop skills to optimize energy efficiency and environmental sustainability.
- Gain insights into maintenance practices and troubleshooting techniques.
- Ensure compliance with regulatory standards and safety protocols.

Target Audience:

- Engineers specializing in HVAC and cooling systems.
- Facility managers and operators.
- Energy efficiency professionals.
- Environmental engineers.
- Urban planners and developers.

Program Outline:

Unit 1:

Introduction to District Cooling Systems:

- Overview of District Cooling Technology.
- Components and Configurations of District Cooling Systems.
- Benefits of District Cooling over Traditional Cooling Methods.

- Environmental Impact and Sustainability Considerations.
- Regulatory Framework and Standards.

Unit 2:

Design and Planning of District Cooling Systems:

- Load Calculations and System Sizing.
- Distribution Network Design.
- Chiller Plant Design and Layout.
- Integration with Building Systems.
- Energy Modeling and Simulation.

Unit 3:

Operation and Maintenance of District Cooling Systems:

- Operational Strategies for District Cooling Plants.
- Monitoring and Control Systems.
- Steps for Maintenance Practices and Procedures.
- Troubleshooting Common Issues.
- Emergency Response and Contingency Planning.

Unit 4:

Energy Efficiency and Optimization:

- Energy Management Strategies.
- Optimization Techniques for Chiller Plants.
- Demand-Side Management.
- Heat Recovery and Cogeneration.
- Case Studies in Energy Efficiency.

Unit 5:

Environmental Impact and Sustainability:

- Environmental Considerations in District Cooling.
- Water Management and Conservation.
- Emissions Reduction Strategies.
- Green Building Certifications and Compliance.
- Community Engagement and Stakeholder Relations.