

# € TRAINING

Advanced Chillers and VRF Systems  
Management



18 - 22 November 2024  
London (UK)  
Landmark Office Space



# Advanced Chillers and VRF Systems Management

REF: O2434 DATE: 18 - 22 November 2024 Venue: London (UK) - Landmark Office Space Fee: 6375 Euro

## Introduction:

This training program is designed to provide participants with comprehensive knowledge and practical skills essential for managing chiller and Variable Refrigerant Flow VRF systems. It empowers them to ensure optimal performance, energy efficiency, and reliability of HVAC systems in various settings.

## Program Objectives:

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

- Understand the principles and design considerations of chiller and VRF systems.
- Execute effective installation procedures for chillers and VRF systems.
- Develop maintenance strategies to ensure the longevity and efficiency of these systems.
- Identify and troubleshoot common issues in chillers and VRF systems.
- Implement best practices for optimizing system performance and energy efficiency.

## Targeted Audience:

- HVAC Engineers and Technicians.
- Facility Managers.
- Maintenance Personnel.
- Mechanical Engineers.
- Energy Management Professionals.
- Building Services Engineers.

## Program Outline:

### Unit 1:

#### Principles and Design of Chillers and VRF Systems:

- Fundamentals of chiller and VRF system operation.
- Design considerations for chiller and VRF systems.

- Load calculations and system sizing.
- Selection of components and materials.
- Case studies on effective system design.

## Unit 2:

### Installation Procedures for Chillers and VRF Systems:

- Pre-installation requirements and site preparation.
- Installation steps for chillers and VRF systems.
- Piping, wiring, and ductwork considerations.
- Commissioning and startup procedures.
- Real-world examples of successful installations.

## Unit 3:

### Maintenance Strategies for Chillers and VRF Systems:

- Routine maintenance tasks and schedules.
- Inspection and servicing of critical components.
- Preventive maintenance techniques.
- Maintaining optimal system performance.
- Case studies on maintenance best practices.

## Unit 4:

### Troubleshooting Common Issues:

- Identifying common problems in chillers and VRF systems.
- Diagnostic tools and techniques.
- Troubleshooting electrical and mechanical faults.
- Repair procedures for common issues.
- Case studies on troubleshooting scenarios.

## Unit 5:

### Optimizing Performance and Energy Efficiency:

- Energy efficiency principles for HVAC systems.
- Strategies for optimizing chiller and VRF system performance.
- Advanced control and monitoring techniques.
- Retrofitting and upgrading existing systems.
- Case studies on energy-efficient practices.