

COC Renewal

*Barcelona (Spain)*

*12 - 16 May 2025*

UK Traininig

**PARTNER**



## COC Renewal

Code: HS28 From: 12 - 16 May 2025 City: Barcelona (Spain) Fees: 5100 Pound

### Introduction

This course is designed for professionals seeking to renew their Certificate of Competency COC in air conditioning and air conditioning control. Over five days, participants will engage in an in-depth review of current practices, emerging technologies, and essential control mechanisms in the HVAC industry. The course is structured to refresh key concepts, provide hands-on practice, and ensure participants are up to date with industry standards and regulations.

#### Objectives

- Refresh Knowledge: Revisit fundamental concepts in air conditioning and control systems.
- Update on Standards: Ensure understanding of the latest industry standards, regulations, and best practices.
- Hands-On Experience: Provide practical experience with current air conditioning systems and control technologies.
- Problem Solving: Enhance troubleshooting skills for common and complex issues in HVAC systems.
- Certification Renewal: Successfully renewed the Certificate of Competency COC in air conditioning and control.

### Course Outline

#### Day 1

##### Introduction to Air Conditioning and Control Systems

- Overview of Air Conditioning Principles
- Key Components of HVAC Systems
- Understanding Control Systems and Their Importance
- Review of Current Industry Standards and Regulations
- Introduction to Energy Efficiency in HVAC Systems



## Day 2

### Advanced Control Strategies

- Proportional-Integral-Derivative PID Control in HVAC
- Use of Sensors and Actuators in Control Systems
- Introduction to Building Management Systems BMS
- Advanced HVAC System Optimization Techniques
- Case Studies on Control System Failures and Solutions

## Day 3

### Emerging Technologies in Air Conditioning

- Smart HVAC Systems and IoT Integration
- Renewable Energy Sources in Air Conditioning
- Advances in Refrigerants and Environmental Impact
- Trends in HVAC Software and Digital Tools
- Future of HVAC Control Systems: AI and Machine Learning

## Day 4

### Practical Applications and Troubleshooting

- Hands-On Session: Control System Calibration and Tuning
- Common HVAC System Failures and Diagnostic Techniques
- Preventive Maintenance Strategies for HVAC Systems
- Workshop: Designing and Implementing Efficient Control Systems
- Live Demonstrations of Latest HVAC Technologies

## Day 5

### Certification and Compliance



- Overview of Certification Renewal Process
- Understanding Compliance with Safety and Environmental Standards
- Mock Exams and Practice Tests for COC Renewal
- Review and Discussion of Exam Content
- Final Assessment and Feedback Session



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