Garnet
Garnet Global Training Center

GGT-HV-112

HVAC, Refrigeration & Building Services **Rare specialisation**

# Cleanroom HVAC

تكييف الغرف النظيفة

| Duration | Language | Formats | Hours | Level |
|---|---|---|---|---|
| **5 or 10 days** | **English or Arabic** | **Classroom, online, in-house** | **35 / 70** | **Intermediate (practitioner)** |

## Overview

Cleanroom HVAC turns established good practice into step-by-step methods that participants rehearse in exercises and then apply at work. Design, operate and maintain the cooling, ventilation and plumbing systems that keep buildings working. It runs as a 5-day or 10-day program in English or Arabic, in classrooms in Dubai, Riyadh, Cairo, London, Istanbul and other cities, or live online, and can be delivered in-house.

## What you will be able to do

- Apply the methods and standards of Cleanroom HVAC to real tasks.
- Diagnose common problems and identify root causes.
- Interpret data and results correctly and act on them.
- Follow safe, compliant and documented work practices.
- Avoid the mistakes that most often cause rework or failure.

## Who should attend

MEP engineers, HVAC technicians, facility engineers and building services consultants. Practitioners with one to five years of experience benefit most.

## Key topics

- Psychrometrics and load calculation
- Refrigeration cycles
- Air distribution and ventilation
- Controls and BMS
- Energy efficiency
- Commissioning and maintenance

## Formats and fees

| | |
|---|---|
| 5-day classroom | **USD 4,750** |
| 5-day online | **USD 2,950** |
| 10-day classroom | **USD 8,950** |
| 10-day online | **USD 5,450** |
| In-house | **Quotation per group** |

Fees per participant, excluding VAT.

## Register or ask

**WhatsApp:** +971 56 674 7382

**Email:** info@garnettrainings.com

**Training:** training@garnettrainings.com

**Web:** garnettrainings.com

Sharjah Publishing City Free Zone, Sharjah, UAE

## Certificate

Participants who attend at least 90% of sessions and complete the final assessment receive a certificate of completion stating 35 contact hours (5-day) or 70 contact hours (10-day).

## 5-day outline

### Day 1 Cleanroom HVAC: principles and standards
- Air distribution and ventilation
- Common mistakes and how to avoid them

### Day 2 Methods and tools in practice
- Controls and BMS
- Energy efficiency

### Day 3 Diagnosis and problem solving
- Commissioning and maintenance
- Regional and international case studies

### Day 4 Quality, safety and documentation
- Psychrometrics and load calculation
- Checklists and templates to take away

### Day 5 Workshop, assessment and action plan
- Refrigeration cycles
- Group discussion and peer review

## 10-day outline

### Day 1 Cleanroom HVAC: principles and standards
- Air distribution and ventilation
- Common mistakes and how to avoid them

### Day 2 Methods and tools in practice
- Controls and BMS
- Energy efficiency

### Day 3 Diagnosis and problem solving
- Commissioning and maintenance
- Regional and international case studies

### Day 4 Quality, safety and documentation
- Psychrometrics and load calculation
- Checklists and templates to take away

### Day 5 Workshop, assessment and action plan
- Refrigeration cycles
- Group discussion and peer review

### Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Measurement and reporting

### Day 7 Digital tools, data and automation
- Analysis tools and software
- Using AI in this field

### Day 8 Benchmarking against international practice
- Global performance benchmarks
- Hands-on workshop on a workplace challenge

### Day 9 Capstone project
- Analyse a real challenge from your organisation
- Build the solution and implementation plan

### Day 10 Presentations, final assessment and certificates
- Project presentations and review
- Final exam and certificate award

## Schedule 2027–2030

| Dates | Format | City | Language | Fee (USD) |
|---|---|---|---|---|
| 4–8 Jan 2027 | 5-day online | Live online | English | 2,950 |
| 8–12 Mar 2027 | 5-day classroom | London | English | 4,750 |
| 11–22 Jul 2027 | 10-day classroom | Muscat | Arabic | 8,950 |
| 1–5 Nov 2027 | 5-day classroom | Abu Dhabi | English | 4,750 |
| 17–28 Jan 2028 | 10-day classroom | London | English | 8,950 |
| 20–24 Feb 2028 | 5-day classroom | Kuwait City | English | 4,750 |
| 17–28 Jul 2028 | 10-day online | Live online | English | 5,450 |
| 10–14 Dec 2028 | 5-day classroom | Amman | English | 4,750 |
| 2–6 Apr 2029 | 5-day classroom | Singapore | English | 4,750 |
| 16–20 Jul 2029 | 5-day classroom | Abu Dhabi | Arabic | 4,750 |

| Dates | Format | City | Language | Fee (USD) |
|---|---|---|---|---|
| 12–16 Nov 2029 | 5-day online | Live online | English | 2,950 |
| 16–27 Dec 2029 | 10-day classroom | Doha | Arabic | 8,950 |
| 8–19 Apr 2030 | 10-day classroom | Amsterdam | English | 8,950 |
| 5–9 Aug 2030 | 5-day classroom | Dubai | English | 4,750 |
| 8–12 Sep 2030 | 5-day classroom | Riyadh | English | 4,750 |
| 2–13 Dec 2030 | 10-day online | Live online | English | 5,450 |

Customised and in-house versions of this course are available on request. garnettrainings.com/en/customise/