Garnet
Garnet Global Training Center

GGT-HV-111

HVAC, Refrigeration & Building Services

Ventilation & Indoor Air Quality

التهوية وجودة الهواء الداخلي

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

Overview

Ventilation & Indoor Air Quality focuses on how the work is actually done: the methods, checks and decisions practitioners use every day, illustrated with real cases from the region. 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 Ventilation & Indoor Air Quality to real tasks.
- Use the right tools, checks and calculations step by step.
- Diagnose common problems and identify root causes.
- Interpret data and results correctly and act on them.
- Follow safe, compliant and documented work practices.

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

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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 Ventilation & Indoor Air Quality: 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 Ventilation & Indoor Air Quality: 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)
8–19 Feb 2027	10-day classroom	Abu Dhabi	English	8,950
8–12 Mar 2027	5-day classroom	Amsterdam	English	4,750
17–21 May 2027	5-day online	Live online	English	2,950
12–16 Jul 2027	5-day classroom	Kuala Lumpur	English	4,750
10–14 Jan 2028	5-day classroom	Singapore	English	4,750
14–18 Feb 2028	5-day classroom	Istanbul	English	4,750
17–28 Jul 2028	10-day classroom	Amsterdam	English	8,950
16–27 Oct 2028	10-day online	Live online	English	5,450
21–25 Jan 2029	5-day classroom	Jeddah	English	4,750

Dates	Format	City	Language	Fee (USD)
19–23 Mar 2029	5-day online	Live online	English	2,950
15–19 Apr 2029	5-day classroom	Doha	Arabic	4,750
18–29 Jun 2029	10-day classroom	Kuala Lumpur	English	8,950
18 Feb – 1 Mar 2030	10-day classroom	Dubai	English	8,950
12–16 May 2030	5-day classroom	Jeddah	English	4,750
7–11 Oct 2030	5-day classroom	Barcelona	English	4,750
18–29 Nov 2030	10-day online	Live online	Arabic	5,450

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