Garnet
Garnet Global Training Center

GGT-HV-110

HVAC, Refrigeration & Building Services

Duct Design & Air Balancing

تصميم مجاري الهواء وموازنتها

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

Overview

Duct Design & Air Balancing 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 Duct Design & Air Balancing to real tasks.
- 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.
- Share good practice with your team.

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 Duct Design & Air Balancing: principles and standards

- Refrigeration cycles
- Common mistakes and how to avoid them

Day 2 Methods and tools in practice

- Air distribution and ventilation
- Controls and BMS

Day 3 Diagnosis and problem solving

- Energy efficiency
- Regional and international case studies

Day 4 Quality, safety and documentation

- Commissioning and maintenance
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan

- Psychrometrics and load calculation
- Group discussion and peer review

10-day outline

Day 1 Duct Design & Air Balancing: principles and standards

- Refrigeration cycles
- Common mistakes and how to avoid them

Day 2 Methods and tools in practice

- Air distribution and ventilation
- Controls and BMS

Day 3 Diagnosis and problem solving

- Energy efficiency
- Regional and international case studies

Day 4 Quality, safety and documentation

- Commissioning and maintenance
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan

- Psychrometrics and load calculation
- 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)
15–19 Feb 2027	5-day classroom	Kuala Lumpur	English	4,750
9–20 Aug 2027	10-day classroom	Vienna	English	8,950
8–12 Nov 2027	5-day online	Live online	English	2,950
13–17 Dec 2027	5-day classroom	London	English	4,750
3–7 Jan 2028	5-day classroom	Abu Dhabi	Arabic	4,750
14–18 Feb 2028	5-day classroom	Dubai	Arabic	4,750
11–22 Jun 2028	10-day classroom	Amman	English	8,950
17–28 Jul 2028	10-day online	Live online	English	5,450
12–16 Mar 2029	5-day classroom	Amsterdam	English	4,750

Dates	Format	City	Language	Fee (USD)
2–6 Apr 2029	5-day online	Live online	Arabic	2,950
6–17 May 2029	10-day classroom	Cairo	English	8,950
6–10 Aug 2029	5-day classroom	London	English	4,750
7–18 Jan 2030	10-day online	Live online	English	5,450
18–22 Mar 2030	5-day classroom	Barcelona	English	4,750
3–14 Jun 2030	10-day classroom	Dubai	Arabic	8,950
15–19 Dec 2030	5-day classroom	Manama	English	4,750

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