Garnet
Garnet Global Training Center

GGT-HV-128

HVAC, Refrigeration & Building Services

Heat Pumps Technology

تكنولوجيا المضخات الحرارية

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

Overview

Heat Pumps Technology 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 Heat Pumps Technology to real tasks.
- Follow safe, compliant and documented work practices.
- Avoid the mistakes that most often cause rework or failure.
- Share good practice with your team.
- Use the right tools, checks and calculations step by step.

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 Heat Pumps Technology: principles and standards

- Energy efficiency
- Measurement and reporting

Day 2 Methods and tools in practice

- Commissioning and maintenance
- Psychrometrics and load calculation

Day 3 Diagnosis and problem solving

- Refrigeration cycles
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

- Air distribution and ventilation
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Controls and BMS
- Regional and international case studies

10-day outline

Day 1 Heat Pumps Technology: principles and standards

- Energy efficiency
- Measurement and reporting

Day 2 Methods and tools in practice

- Commissioning and maintenance
- Psychrometrics and load calculation

Day 3 Diagnosis and problem solving

- Refrigeration cycles
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

- Air distribution and ventilation
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Controls and BMS
- Regional and international case studies

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Checklists and templates to take away

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
- Group discussion and peer review

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)
15–26 Mar 2027	10-day classroom	Singapore	English	8,950
6–10 Jun 2027	5-day classroom	Riyadh	Arabic	4,750
9–13 Aug 2027	5-day online	Live online	English	2,950
1–5 Nov 2027	5-day classroom	Barcelona	English	4,750
3–7 Jan 2028	5-day classroom	Barcelona	English	4,750
21 Feb – 3 Mar 2028	10-day online	Live online	English	5,450
10–14 Jul 2028	5-day classroom	Kuala Lumpur	English	4,750
2–13 Oct 2028	10-day classroom	London	English	8,950
1–5 Jan 2029	5-day online	Live online	English	2,950

Dates	Format	City	Language	Fee (USD)
16–20 Apr 2029	5-day classroom	London	English	4,750
3–7 Jun 2029	5-day classroom	Doha	English	4,750
20–31 Aug 2029	10-day classroom	Kuala Lumpur	English	8,950
18–22 Feb 2030	5-day classroom	Paris	English	4,750
3–14 Jun 2030	10-day online	Live online	Arabic	5,450
5–16 Aug 2030	10-day classroom	Abu Dhabi	English	8,950
11–15 Nov 2030	5-day classroom	London	English	4,750

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