Garnet
Garnet Global Training Center

GGT-HV-119

HVAC, Refrigeration & Building Services

HVAC Energy Efficiency

كفاءة الطاقة في التكييف

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

Overview

HVAC Energy Efficiency 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 HVAC Energy Efficiency 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

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 HVAC Energy Efficiency: principles and standards
- Refrigeration cycles
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice
- Air distribution and ventilation
- Controls and BMS

Day 3 Diagnosis and problem solving
- Energy efficiency
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation
- Commissioning and maintenance
- Regional and international case studies

Day 5 Workshop, assessment and action plan
- Psychrometrics and load calculation
- Checklists and templates to take away

10-day outline

Day 1 HVAC Energy Efficiency: principles and standards
- Refrigeration cycles
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice
- Air distribution and ventilation
- Controls and BMS

Day 3 Diagnosis and problem solving
- Energy efficiency
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation
- Commissioning and maintenance
- Regional and international case studies

Day 5 Workshop, assessment and action plan
- Psychrometrics and load calculation
- Checklists and templates to take away

Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Group discussion and peer review

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
- Measurement and reporting

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)
11–15 Jan 2027	5-day classroom	Paris	English	4,750
7–11 Jun 2027	5-day online	Live online	English	2,950
9–20 Aug 2027	10-day classroom	Istanbul	English	8,950
21–25 Nov 2027	5-day classroom	Riyadh	English	4,750
6–10 Mar 2028	5-day classroom	London	English	4,750
11–22 Sep 2028	10-day online	Live online	Arabic	5,450
16–20 Oct 2028	5-day classroom	Barcelona	English	4,750
19–30 Nov 2028	10-day classroom	Riyadh	English	8,950
12–16 Feb 2029	5-day classroom	Singapore	English	4,750
9–13 Apr 2029	5-day classroom	London	English	4,750

Dates	Format	City	Language	Fee (USD)
18–22 Jun 2029	5-day online	Live online	Arabic	2,950
19–30 Nov 2029	10-day classroom	Abu Dhabi	English	8,950
10–14 Feb 2030	5-day classroom	Doha	Arabic	4,750
19–30 Aug 2030	10-day online	Live online	Arabic	5,450
9–20 Sep 2030	10-day classroom	Abu Dhabi	English	8,950
2–6 Dec 2030	5-day classroom	Istanbul	English	4,750

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