Garnet
Garnet Global Training Center

GGT-HV-130

HVAC, Refrigeration & Building Services | Rare specialisation | New from 2028

Solar Cooling & Sustainable HVAC

التبريد الشمسي والتكييف المستدام

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

Overview

Participants in Solar Cooling & Sustainable HVAC practise the methods, tools and standards they need to perform reliably and solve problems on the job. Design, operate and maintain the cooling, ventilation and plumbing systems that keep buildings working. You can join a public session in one of 20 cities or live online, in English or Arabic, or bring the course in-house with examples from your own operations.

What you will be able to do

- Apply the methods and standards of Solar Cooling & Sustainable HVAC to real tasks.
- Share good practice with your team.
- 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.

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 Solar Cooling & Sustainable HVAC: principles and standards

- Psychrometrics and load calculation
- Measurement and reporting

Day 2 Methods and tools in practice

- Refrigeration cycles
- Air distribution and ventilation

Day 3 Diagnosis and problem solving

- Controls and BMS
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

- Energy efficiency
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Commissioning and maintenance
- Regional and international case studies

10-day outline

Day 1 Solar Cooling & Sustainable HVAC: principles and standards

- Psychrometrics and load calculation
- Measurement and reporting

Day 2 Methods and tools in practice

- Refrigeration cycles
- Air distribution and ventilation

Day 3 Diagnosis and problem solving

- Controls and BMS
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- Energy efficiency
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Day 5 Workshop, assessment and action plan

- Commissioning and maintenance
- 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)
21–25 Feb 2028	5-day classroom	Dubai	Arabic	4,750
20–31 Mar 2028	10-day classroom	Abu Dhabi	English	8,950
3–14 Jul 2028	10-day online	Live online	Arabic	5,450
10–14 Dec 2028	5-day classroom	Riyadh	English	4,750
21–25 May 2029	5-day classroom	Dubai	Arabic	4,750
11–15 Jun 2029	5-day online	Live online	Arabic	2,950
12–23 Nov 2029	10-day classroom	London	English	8,950
10–14 Dec 2029	5-day classroom	Abu Dhabi	English	4,750
10–21 Jun 2030	10-day classroom	London	English	8,950

Dates	Format	City	Language	Fee (USD)
4–8 Aug 2030	5-day classroom	Jeddah	English	4,750
13–17 Oct 2030	5-day classroom	Cairo	English	4,750
9–20 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/