Garnet
Garnet Global Training Center

GGT-HV-127

HVAC, Refrigeration & Building Services **Rare specialisation**

Thermal Energy Storage

تخزين الطاقة الحرارية

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

Overview

Participants in Thermal Energy Storage 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. 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 Thermal Energy Storage 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 Thermal Energy Storage: 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 Thermal Energy Storage: 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

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)
17–28 Jan 2027	10-day classroom	Kuwait City	English	8,950
15–19 Feb 2027	5-day classroom	Paris	English	4,750
5–9 Apr 2027	5-day online	Live online	English	2,950
14–18 Nov 2027	5-day classroom	Cairo	English	4,750
17–28 Jan 2028	10-day online	Live online	English	5,450
5–16 Mar 2028	10-day classroom	Muscat	Arabic	8,950
10–14 Apr 2028	5-day classroom	Abu Dhabi	Arabic	4,750
12–16 Jun 2028	5-day classroom	Istanbul	English	4,750
5–9 Feb 2029	5-day classroom	London	English	4,750

Dates	Format	City	Language	Fee (USD)
20–31 May 2029	10-day classroom	Riyadh	Arabic	8,950
9–13 Jul 2029	5-day classroom	Singapore	English	4,750
12–16 Nov 2029	5-day online	Live online	Arabic	2,950
11–22 Feb 2030	10-day online	Live online	English	5,450
11–15 Mar 2030	5-day classroom	Dubai	English	4,750
3–14 Jun 2030	10-day classroom	Barcelona	English	8,950
4–8 Aug 2030	5-day classroom	Kuwait City	English	4,750

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