Garnet
Garnet Global Training Center

GGT-HV-103

HVAC, Refrigeration & Building Services

Cooling Load Calculation

حساب أحمال التبريد

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

Overview

Cooling Load Calculation 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. Choose 5 or 10 days, classroom or live online, English or Arabic; organisations can also run it in-house and adapt the examples to their own work.

What you will be able to do

- Apply the methods and standards of Cooling Load Calculation to real tasks.
- 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.
- Diagnose common problems and identify root causes.

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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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 Cooling Load Calculation: principles and standards

- Controls and BMS
- Checklists and templates to take away

Day 2 Methods and tools in practice

- Energy efficiency
- Commissioning and maintenance

Day 3 Diagnosis and problem solving

- Psychrometrics and load calculation
- Group discussion and peer review

Day 4 Quality, safety and documentation

- Refrigeration cycles
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- Air distribution and ventilation
- Hands-on workshop on a workplace challenge

10-day outline

Day 1 Cooling Load Calculation: principles and standards

- Controls and BMS
- Checklists and templates to take away

Day 2 Methods and tools in practice

- Energy efficiency
- Commissioning and maintenance

Day 3 Diagnosis and problem solving

- Psychrometrics and load calculation
- Group discussion and peer review

Day 4 Quality, safety and documentation

- Refrigeration cycles
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- Air distribution and ventilation
- Hands-on workshop on a workplace challenge

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Common mistakes and how to avoid them

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
- Regional and international case studies

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)
3–14 Jan 2027	10-day classroom	Riyadh	English	8,950
8–12 Mar 2027	5-day online	Live online	Arabic	2,950
11–15 Jul 2027	5-day classroom	Muscat	English	4,750
18–22 Oct 2027	5-day classroom	Dubai	Arabic	4,750
17–28 Jan 2028	10-day online	Live online	English	5,450
14–18 Feb 2028	5-day classroom	Barcelona	English	4,750
18–22 Jun 2028	5-day classroom	Cairo	English	4,750
11–22 Dec 2028	10-day classroom	Abu Dhabi	Arabic	8,950
4–8 Feb 2029	5-day classroom	Jeddah	Arabic	4,750

Dates	Format	City	Language	Fee (USD)
16–20 Jul 2029	5-day classroom	Abu Dhabi	Arabic	4,750
6–17 Aug 2029	10-day classroom	Istanbul	English	8,950
10–14 Sep 2029	5-day online	Live online	English	2,950
7–11 Jan 2030	5-day classroom	Dubai	Arabic	4,750
13–24 May 2030	10-day online	Live online	Arabic	5,450
15–19 Jul 2030	5-day classroom	Paris	English	4,750
5–16 Aug 2030	10-day classroom	Geneva	English	8,950

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