Garnet
Garnet Global Training Center

GGT-HV-104

HVAC, Refrigeration & Building Services

Chillers Operation & Maintenance

تشغيل وصيانة المبردات (Chillers)

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

Overview

Participants in Chillers Operation & Maintenance 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 Chillers Operation & Maintenance to real tasks.
- 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.
- Follow safe, compliant and documented work practices.

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 Chillers Operation & Maintenance: principles and standards

- Psychrometrics and load calculation
- Common mistakes and how to avoid them

Day 2 Methods and tools in practice

- Refrigeration cycles
- Air distribution and ventilation

Day 3 Diagnosis and problem solving

- Controls and BMS
- Regional and international case studies

Day 4 Quality, safety and documentation

- Energy efficiency
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan

- Commissioning and maintenance
- Group discussion and peer review

10-day outline

Day 1 Chillers Operation & Maintenance: principles and standards

- Psychrometrics and load calculation
- Common mistakes and how to avoid them

Day 2 Methods and tools in practice

- Refrigeration cycles
- Air distribution and ventilation

Day 3 Diagnosis and problem solving

- Controls and BMS
- Regional and international case studies

Day 4 Quality, safety and documentation

- Energy efficiency
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan

- Commissioning and maintenance
- Group discussion and peer review

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Measurement and reporting

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
- Hands-on workshop on a workplace challenge

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)
4–8 Jan 2027	5-day online	Live online	English	2,950
1–5 Feb 2027	5-day classroom	Abu Dhabi	Arabic	4,750
7–18 Mar 2027	10-day classroom	Kuwait City	Arabic	8,950
16–20 May 2027	5-day classroom	Jeddah	Arabic	4,750
2–13 Jan 2028	10-day classroom	Kuwait City	Arabic	8,950
1–12 May 2028	10-day online	Live online	English	5,450
10–14 Jul 2028	5-day classroom	Istanbul	English	4,750
6–10 Aug 2028	5-day classroom	Manama	English	4,750
12–16 Feb 2029	5-day classroom	Kuala Lumpur	English	4,750

Dates	Format	City	Language	Fee (USD)
14–25 May 2029	10-day classroom	Dubai	English	8,950
9–13 Jul 2029	5-day online	Live online	Arabic	2,950
15–19 Oct 2029	5-day classroom	Vienna	English	4,750
1–5 Apr 2030	5-day classroom	Dubai	English	4,750
16–20 Jun 2030	5-day classroom	Cairo	English	4,750
19–30 Aug 2030	10-day online	Live online	English	5,450
8–19 Dec 2030	10-day classroom	Kuwait City	Arabic	8,950

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