Garnet
Garnet Global Training Center

GGT-HV-105

HVAC, Refrigeration & Building Services

Chilled Water Systems

أنظمة المياه المبردة

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

Overview

Chilled Water Systems 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. 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 Chilled Water Systems to real tasks.
- Interpret data and results correctly and act on them.
- Follow safe, compliant and documented work practices.
- Avoid the mistakes that most often cause rework or failure.
- Share good practice with your team.

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 Chilled Water Systems: principles and standards
- Commissioning and maintenance
- Group discussion and peer review

Day 2 Methods and tools in practice
- Psychrometrics and load calculation
- Refrigeration cycles

Day 3 Diagnosis and problem solving
- Air distribution and ventilation
- Measurement and reporting

Day 4 Quality, safety and documentation
- Controls and BMS
- Hands-on workshop on a workplace challenge

Day 5 Workshop, assessment and action plan
- Energy efficiency
- Common mistakes and how to avoid them

10-day outline

Day 1 Chilled Water Systems: principles and standards
- Commissioning and maintenance
- Group discussion and peer review

Day 2 Methods and tools in practice
- Psychrometrics and load calculation
- Refrigeration cycles

Day 3 Diagnosis and problem solving
- Air distribution and ventilation
- Measurement and reporting

Day 4 Quality, safety and documentation
- Controls and BMS
- Hands-on workshop on a workplace challenge

Day 5 Workshop, assessment and action plan
- Energy efficiency
- Common mistakes and how to avoid them

Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Regional and international case studies

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
- Checklists and templates to take away

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 online	Live online	English	2,950
14–18 Jun 2027	5-day classroom	Paris	English	4,750
12–16 Jul 2027	5-day classroom	Dubai	English	4,750
17–28 Oct 2027	10-day classroom	Kuwait City	English	8,950
8–19 May 2028	10-day online	Live online	Arabic	5,450
13–17 Aug 2028	5-day classroom	Jeddah	English	4,750
11–22 Sep 2028	10-day classroom	Amsterdam	English	8,950
5–9 Nov 2028	5-day classroom	Doha	Arabic	4,750
14–25 May 2029	10-day classroom	London	English	8,950
11–15 Jun 2029	5-day classroom	Dubai	Arabic	4,750

Dates	Format	City	Language	Fee (USD)
8–12 Oct 2029	5-day online	Live online	English	2,950
16–20 Dec 2029	5-day classroom	Riyadh	English	4,750
3–7 Jun 2030	5-day classroom	Dubai	Arabic	4,750
1–5 Jul 2030	5-day classroom	Kuala Lumpur	English	4,750
19–30 Aug 2030	10-day online	Live online	English	5,450
16–27 Sep 2030	10-day classroom	Barcelona	English	8,950

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