Garnet
Garnet Global Training Center

GGT-HV-113

HVAC, Refrigeration & Building Services

Hospital HVAC Systems

أنظمة التكييف في المستشفيات

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

Overview

Hospital HVAC Systems focuses on how the work is actually done: the methods, checks and decisions practitioners use every day, illustrated with real cases from the region. 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 Hospital HVAC Systems to real tasks.
- Diagnose common problems and identify root causes.
- 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.

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 Hospital HVAC Systems: principles and standards
- Controls and BMS
- Regional and international case studies

Day 2 Methods and tools in practice
- Energy efficiency
- Commissioning and maintenance

Day 3 Diagnosis and problem solving
- Psychrometrics and load calculation
- Checklists and templates to take away

Day 4 Quality, safety and documentation
- Refrigeration cycles
- Group discussion and peer review

Day 5 Workshop, assessment and action plan
- Air distribution and ventilation
- Measurement and reporting

10-day outline

Day 1 Hospital HVAC Systems: principles and standards
- Controls and BMS
- Regional and international case studies

Day 2 Methods and tools in practice
- Energy efficiency
- Commissioning and maintenance

Day 3 Diagnosis and problem solving
- Psychrometrics and load calculation
- Checklists and templates to take away

Day 4 Quality, safety and documentation
- Refrigeration cycles
- Group discussion and peer review

Day 5 Workshop, assessment and action plan
- Air distribution and ventilation
- Measurement and reporting

Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Hands-on workshop on a workplace challenge

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
- Common mistakes and how to avoid them

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)
7–11 Mar 2027	5-day classroom	Jeddah	Arabic	4,750
21–25 Jun 2027	5-day online	Live online	Arabic	2,950
13–17 Sep 2027	5-day classroom	Geneva	English	4,750
10–21 Oct 2027	10-day classroom	Cairo	Arabic	8,950
17–28 Apr 2028	10-day online	Live online	Arabic	5,450
8–19 May 2028	10-day classroom	Istanbul	English	8,950
18–22 Jun 2028	5-day classroom	Riyadh	Arabic	4,750
11–15 Sep 2028	5-day classroom	Dubai	Arabic	4,750
12–23 Feb 2029	10-day classroom	Dubai	English	8,950
1–5 Oct 2029	5-day online	Live online	Arabic	2,950

Dates	Format	City	Language	Fee (USD)
19–23 Nov 2029	5-day classroom	Singapore	English	4,750
10–14 Dec 2029	5-day classroom	Amsterdam	English	4,750
18–22 Mar 2030	5-day classroom	Dubai	Arabic	4,750
15–26 Apr 2030	10-day online	Live online	Arabic	5,450
14–25 Oct 2030	10-day classroom	Vienna	English	8,950
9–13 Dec 2030	5-day classroom	Kuala Lumpur	English	4,750

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