Garnet
Garnet Global Training Center

GGT-HV-123

HVAC, Refrigeration & Building Services

Pumps & Water Supply in Buildings

المضخات وتغذية المياه في المباني

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

Overview

Participants in Pumps & Water Supply in Buildings 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 Pumps & Water Supply in Buildings 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 Pumps & Water Supply in Buildings: 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 Pumps & Water Supply in Buildings: 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)
21 Mar – 1 Apr 2027	10-day classroom	Jeddah	English	8,950
12–16 Apr 2027	5-day online	Live online	Arabic	2,950
18–22 Jul 2027	5-day classroom	Riyadh	English	4,750
15–19 Nov 2027	5-day classroom	Vienna	English	4,750
1–12 May 2028	10-day online	Live online	English	5,450
11–15 Sep 2028	5-day classroom	Paris	English	4,750
13–24 Nov 2028	10-day classroom	London	English	8,950
17–21 Dec 2028	5-day classroom	Doha	Arabic	4,750
7–11 May 2029	5-day classroom	Abu Dhabi	English	4,750

Dates	Format	City	Language	Fee (USD)
6–10 Aug 2029	5-day classroom	Istanbul	English	4,750
21 Oct – 1 Nov 2029	10-day classroom	Doha	English	8,950
19–23 Nov 2029	5-day online	Live online	English	2,950
4–15 Feb 2030	10-day classroom	Paris	English	8,950
15–26 Apr 2030	10-day online	Live online	English	5,450
15–19 Sep 2030	5-day classroom	Riyadh	English	4,750
11–15 Nov 2030	5-day classroom	Amsterdam	English	4,750

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