Garnet
Garnet Global Training Center

GGT-HV-122

HVAC, Refrigeration & Building Services

Plumbing System Design

تصميم أنظمة السباكة

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

Overview

Participants in Plumbing System Design 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. 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 Plumbing System Design 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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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 Plumbing System Design: principles and standards

- Psychrometrics and load calculation
- Regional and international case studies

Day 2 Methods and tools in practice

- Refrigeration cycles
- Air distribution and ventilation

Day 3 Diagnosis and problem solving

- Controls and BMS
- Checklists and templates to take away

Day 4 Quality, safety and documentation

- Energy efficiency
- Group discussion and peer review

Day 5 Workshop, assessment and action plan

- Commissioning and maintenance
- Measurement and reporting

10-day outline

Day 1 Plumbing System Design: principles and standards

- Psychrometrics and load calculation
- Regional and international case studies

Day 2 Methods and tools in practice

- Refrigeration cycles
- Air distribution and ventilation

Day 3 Diagnosis and problem solving

- Controls and BMS
- Checklists and templates to take away

Day 4 Quality, safety and documentation

- Energy efficiency
- Group discussion and peer review

Day 5 Workshop, assessment and action plan

- Commissioning and maintenance
- 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)
1–12 Feb 2027	10-day classroom	Vienna	English	8,950
15–19 Mar 2027	5-day classroom	London	English	4,750
5–9 Apr 2027	5-day classroom	Amsterdam	English	4,750
5–9 Jul 2027	5-day online	Live online	Arabic	2,950
17–28 Jul 2028	10-day online	Live online	Arabic	5,450
14–18 Aug 2028	5-day classroom	London	English	4,750
2–6 Oct 2028	5-day classroom	Abu Dhabi	Arabic	4,750
20 Nov – 1 Dec 2028	10-day classroom	Dubai	English	8,950
16–20 Apr 2029	5-day online	Live online	Arabic	2,950

Dates	Format	City	Language	Fee (USD)
9–13 Jul 2029	5-day classroom	Dubai	Arabic	4,750
12–16 Aug 2029	5-day classroom	Kuwait City	Arabic	4,750
8–19 Oct 2029	10-day classroom	Barcelona	English	8,950
14–25 Jan 2030	10-day online	Live online	Arabic	5,450
20–24 May 2030	5-day classroom	Barcelona	English	4,750
5–9 Aug 2030	5-day classroom	London	English	4,750
21 Oct – 1 Nov 2030	10-day classroom	Kuala Lumpur	English	8,950

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