Garnet
Garnet Global Training Center

GGT-HV-115

HVAC, Refrigeration & Building Services **Rare specialisation**

Industrial Refrigeration & Ammonia Systems

التبريد الصناعي وأنظمة الأمونيا

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

Overview

Industrial Refrigeration & Ammonia 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. 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 Industrial Refrigeration & Ammonia Systems to real tasks.
- Share good practice with your team.
- 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.

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 Industrial Refrigeration & Ammonia Systems: principles and standards

- Energy efficiency
- Measurement and reporting

Day 2 Methods and tools in practice

- Commissioning and maintenance
- Psychrometrics and load calculation

Day 3 Diagnosis and problem solving

- Refrigeration cycles
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

- Air distribution and ventilation
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Controls and BMS
- Regional and international case studies

10-day outline

Day 1 Industrial Refrigeration & Ammonia Systems: principles and standards

- Energy efficiency
- Measurement and reporting

Day 2 Methods and tools in practice

- Commissioning and maintenance
- Psychrometrics and load calculation

Day 3 Diagnosis and problem solving

- Refrigeration cycles
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

- Air distribution and ventilation
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Controls and BMS
- Regional and international case studies

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Checklists and templates to take away

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
- Group discussion and peer review

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)
15–26 Mar 2027	10-day classroom	Amsterdam	English	8,950
19–23 Apr 2027	5-day classroom	Dubai	English	4,750
21–25 Jun 2027	5-day classroom	Kuala Lumpur	English	4,750
6–10 Sep 2027	5-day online	Live online	English	2,950
6–10 Aug 2028	5-day classroom	Amman	English	4,750
4–15 Sep 2028	10-day online	Live online	English	5,450
9–20 Oct 2028	10-day classroom	Barcelona	English	8,950
4–8 Dec 2028	5-day classroom	Abu Dhabi	English	4,750
16–20 Apr 2029	5-day classroom	Geneva	English	4,750

Dates	Format	City	Language	Fee (USD)
9–13 Jul 2029	5-day online	Live online	Arabic	2,950
1–5 Oct 2029	5-day classroom	Amsterdam	English	4,750
10–21 Dec 2029	10-day classroom	Dubai	Arabic	8,950
19–30 May 2030	10-day classroom	Riyadh	English	8,950
10–14 Jun 2030	5-day classroom	Casablanca	English	4,750
19–30 Aug 2030	10-day online	Live online	Arabic	5,450
9–13 Dec 2030	5-day classroom	Amsterdam	English	4,750

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