Garnet
Garnet Global Training Center

GGT-HV-124

HVAC, Refrigeration & Building Services

Fire Fighting Systems Design

تصميم أنظمة مكافحة الحريق

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

Overview

Fire Fighting Systems Design 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 Fire Fighting Systems Design to real tasks.
- 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.
- Follow safe, compliant and documented work practices.

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

WhatsApp: +971 56 674 7382

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 Fire Fighting Systems Design: principles and standards

- Commissioning and maintenance
- Measurement and reporting

Day 2 Methods and tools in practice

- Psychrometrics and load calculation
- Refrigeration cycles

Day 3 Diagnosis and problem solving

- Air distribution and ventilation
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

- Controls and BMS
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Energy efficiency
- Regional and international case studies

10-day outline

Day 1 Fire Fighting Systems Design: principles and standards

- Commissioning and maintenance
- Measurement and reporting

Day 2 Methods and tools in practice

- Psychrometrics and load calculation
- Refrigeration cycles

Day 3 Diagnosis and problem solving

- Air distribution and ventilation
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

- Controls and BMS
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Energy efficiency
- 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)
4–15 Jan 2027	10-day classroom	London	English	8,950
12–16 Apr 2027	5-day classroom	Kuala Lumpur	English	4,750
5–9 Jul 2027	5-day online	Live online	English	2,950
16–20 Aug 2027	5-day classroom	Amsterdam	English	4,750
17–28 Jan 2028	10-day online	Live online	Arabic	5,450
14–18 Feb 2028	5-day classroom	Istanbul	English	4,750
15–19 May 2028	5-day classroom	London	English	4,750
1–12 Oct 2028	10-day classroom	Muscat	English	8,950
8–12 Jan 2029	5-day online	Live online	English	2,950

Dates	Format	City	Language	Fee (USD)
12–16 Feb 2029	5-day classroom	Paris	English	4,750
15–26 Oct 2029	10-day classroom	London	English	8,950
19–23 Nov 2029	5-day classroom	Vienna	English	4,750
11–15 Mar 2030	5-day classroom	Casablanca	English	4,750
8–12 Jul 2030	5-day classroom	London	English	4,750
11–22 Nov 2030	10-day online	Live online	Arabic	5,450
16–27 Dec 2030	10-day classroom	Paris	English	8,950

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