Garnet
Garnet Global Training Center

GGT-FE-115

Fire Engineering & Fire Protection **Rare specialisation**

Fire Safety Engineering & Performance-Based Design

هندسة السلامة من الحرائق والتصميم المبني على الأداء

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

Overview

Fire Safety Engineering & Performance-Based Design turns established good practice into step-by-step methods that participants rehearse in exercises and then apply at work. Prevent, detect and control fire with the right design, systems and inspection. 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 Fire Safety Engineering & Performance-Based 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

Fire engineers, fire safety officers, MEP designers, inspectors and facility managers. Practitioners with one to five years of experience benefit most.

Key topics

- Fire science
- Codes: NFPA and local codes
- Detection and alarm
- Suppression systems
- Means of egress
- Inspection 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 Fire Safety Engineering & Performance-Based Design: principles and standards

- Means of egress
- Group discussion and peer review

Day 2 Methods and tools in practice

- Inspection and maintenance
- Fire science

Day 3 Diagnosis and problem solving

- Codes: NFPA and local codes
- Measurement and reporting

Day 4 Quality, safety and documentation

- Detection and alarm
- Hands-on workshop on a workplace challenge

Day 5 Workshop, assessment and action plan

- Suppression systems
- Common mistakes and how to avoid them

10-day outline

Day 1 Fire Safety Engineering & Performance-Based Design: principles and standards

- Means of egress
- Group discussion and peer review

Day 2 Methods and tools in practice

- Inspection and maintenance
- Fire science

Day 3 Diagnosis and problem solving

- Codes: NFPA and local codes
- Measurement and reporting

Day 4 Quality, safety and documentation

- Detection and alarm
- Hands-on workshop on a workplace challenge

Day 5 Workshop, assessment and action plan

- Suppression systems
- Common mistakes and how to avoid them

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Regional and international case studies

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
- Checklists and templates to take away

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)
13–17 Jun 2027	5-day classroom	Cairo	Arabic	4,750
4–8 Jul 2027	5-day classroom	Muscat	Arabic	4,750
13–17 Sep 2027	5-day online	Live online	English	2,950
20–31 Dec 2027	10-day classroom	Abu Dhabi	Arabic	8,950
17–28 Apr 2028	10-day online	Live online	Arabic	5,450
4–8 Sep 2028	5-day classroom	Vienna	English	4,750
15–26 Oct 2028	10-day classroom	Riyadh	Arabic	8,950
13–17 Nov 2028	5-day classroom	Kuala Lumpur	English	4,750
1–12 Jan 2029	10-day classroom	Abu Dhabi	English	8,950

Dates	Format	City	Language	Fee (USD)
10–14 Jun 2029	5-day classroom	Jeddah	Arabic	4,750
3–7 Sep 2029	5-day classroom	Dubai	English	4,750
10–14 Dec 2029	5-day online	Live online	Arabic	2,950
2–6 Jun 2030	5-day classroom	Riyadh	Arabic	4,750
12–23 Aug 2030	10-day online	Live online	English	5,450
17–28 Nov 2030	10-day classroom	Jeddah	Arabic	8,950
9–13 Dec 2030	5-day classroom	Vienna	English	4,750

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