Garnet
Garnet Global Training Center

GGT-FE-101

Fire Engineering & Fire Protection

Fire Science Fundamentals

أساسيات علم الحريق

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

Overview

Fire Science Fundamentals is designed for people who are new to the subject, or who need a structured refresher before taking on more responsibility. Prevent, detect and control fire with the right design, systems and inspection. 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

- Explain the key concepts, terms and standards of Fire Science Fundamentals.
- Recognise the main hazards, errors and misconceptions newcomers face.
- Carry out basic tasks correctly using simple checklists and tools.
- Read and use the documents, forms and data common in this field.
- Know when to escalate and who to involve.

Who should attend

Fire engineers, fire safety officers, MEP designers, inspectors and facility managers. No prior experience is required; it also suits new hires, graduates and staff moving into this field.

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 Introduction to Fire Science Fundamentals
- Codes: NFPA and local codes
- Regional and international case studies

Day 2 Core concepts and terminology
- Detection and alarm
- Suppression systems

Day 3 Basic methods and tools
- Means of egress
- Checklists and templates to take away

Day 4 Working safely and correctly
- Inspection and maintenance
- Group discussion and peer review

Day 5 Practical exercises and review
- Fire science
- Measurement and reporting

10-day outline

Day 1 Introduction to Fire Science Fundamentals
- Codes: NFPA and local codes
- Regional and international case studies

Day 2 Core concepts and terminology
- Detection and alarm
- Suppression systems

Day 3 Basic methods and tools
- Means of egress
- Checklists and templates to take away

Day 4 Working safely and correctly
- Inspection and maintenance
- Group discussion and peer review

Day 5 Practical exercises and review
- Fire science
- 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)
14–25 Feb 2027	10-day classroom	Manama	Arabic	8,950
17–21 May 2027	5-day online	Live online	Arabic	2,950
13–17 Jun 2027	5-day classroom	Cairo	Arabic	4,750
6–10 Sep 2027	5-day classroom	Paris	English	4,750
7–11 Feb 2028	5-day classroom	Dubai	English	4,750
4–8 Jun 2028	5-day classroom	Riyadh	English	4,750
13–24 Aug 2028	10-day classroom	Jeddah	Arabic	8,950
11–22 Sep 2028	10-day online	Live online	English	5,450
1–5 Jan 2029	5-day classroom	Dubai	Arabic	4,750
18–22 Jun 2029	5-day online	Live online	English	2,950

Dates	Format	City	Language	Fee (USD)
8–19 Oct 2029	10-day classroom	Paris	English	8,950
19–23 Nov 2029	5-day classroom	London	English	4,750
3–14 Jun 2030	10-day classroom	Abu Dhabi	English	8,950
12–23 Aug 2030	10-day online	Live online	Arabic	5,450
2–6 Sep 2030	5-day classroom	Singapore	English	4,750
4–8 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/