Garnet
Garnet Global Training Center

GGT-EI-118

Electrical, Instrumentation & Control

Fire & Gas Detection Systems

أنظمة كشف الحريق والغاز

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

Overview

Participants in Fire & Gas Detection Systems practise the methods, tools and standards they need to perform reliably and solve problems on the job. Power, protection and automation skills for plants, utilities and smart infrastructure. 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 & Gas Detection Systems to real tasks.
- Follow safe, compliant and documented work practices.
- Avoid the mistakes that most often cause rework or failure.
- Share good practice with your team.
- Use the right tools, checks and calculations step by step.

Who should attend

Electrical, instrumentation and control engineers, technicians and maintenance leads. Practitioners with one to five years of experience benefit most.

Key topics

- Power system fundamentals and studies
- Protection, earthing and safety
- Control system architecture
- Field devices and loop checking
- IEC and IEEE standards
- Troubleshooting with real fault records

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 & Gas Detection Systems: principles and standards

- Control system architecture
- Checklists and templates to take away

Day 2 Methods and tools in practice

- Field devices and loop checking
- IEC and IEEE standards

Day 3 Diagnosis and problem solving

- Troubleshooting with real fault records
- Group discussion and peer review

Day 4 Quality, safety and documentation

- Power system fundamentals and studies
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- Protection, earthing and safety
- Hands-on workshop on a workplace challenge

10-day outline

Day 1 Fire & Gas Detection Systems: principles and standards

- Control system architecture
- Checklists and templates to take away

Day 2 Methods and tools in practice

- Field devices and loop checking
- IEC and IEEE standards

Day 3 Diagnosis and problem solving

- Troubleshooting with real fault records
- Group discussion and peer review

Day 4 Quality, safety and documentation

- Power system fundamentals and studies
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- Protection, earthing and safety
- Hands-on workshop on a workplace challenge

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Common mistakes and how to avoid them

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
- Regional and international case studies

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)
21–25 Feb 2027	5-day classroom	Riyadh	English	4,750
15–19 Mar 2027	5-day online	Live online	Arabic	2,950
10–21 May 2027	10-day classroom	Casablanca	Arabic	8,950
5–9 Sep 2027	5-day classroom	Jeddah	English	4,750
10–21 Jan 2028	10-day online	Live online	English	5,450
9–13 Apr 2028	5-day classroom	Muscat	Arabic	4,750
13–17 Aug 2028	5-day classroom	Riyadh	English	4,750
17–28 Dec 2028	10-day classroom	Doha	English	8,950
8–12 Apr 2029	5-day classroom	Cairo	English	4,750

Dates	Format	City	Language	Fee (USD)
21–25 May 2029	5-day online	Live online	Arabic	2,950
8–12 Jul 2029	5-day classroom	Doha	English	4,750
17–28 Sep 2029	10-day classroom	Barcelona	English	8,950
14–18 Jan 2030	5-day classroom	Amsterdam	English	4,750
15–26 Apr 2030	10-day classroom	Kuala Lumpur	English	8,950
3–7 Jun 2030	5-day classroom	Dubai	Arabic	4,750
16–27 Sep 2030	10-day online	Live online	English	5,450

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