



Fire & Gas Detection Systems

Instrumentation, Control & Automation

QGT-INS-110 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Fire & Gas Detection Systems is an introduction that builds a solid working knowledge in Fire & Gas Detection Systems. It covers the principles, the requirements of ISA, IEC 61511, IEC 61508 and IEC 62443, and the practical methods used on site, with case studies from operations in the Gulf, Africa and worldwide. Available online, in the classroom in 60 cities, or in-house.

What participants will be able to do

- Explain the principles, terminology and scope of Fire & Gas Detection Systems
- Apply the relevant requirements of ISA, IEC 61511, IEC 61508 and IEC 62443
- Use practical tools, checklists and calculations with confidence
- Recognise common problems, risks and root causes and choose the right corrective action
- Prepare an improvement plan for their own site or organisation

Who should attend

Designed for instrument and control engineers, technicians and control room staff, new joiners and anyone who needs a solid grounding in the subject.

Course outline (5 days)

Day 1: Principles and terminology

Scope, key definitions and how Fire & Gas Detection Systems fits into daily operations

Day 2: Codes, standards and requirements

What ISA, IEC 61511, IEC 61508 and IEC 62443 require, and how to read them

Day 3: Methods, tools and calculations

Step-by-step methods, checklists and worked examples

Day 4: Operation, inspection and common problems

Typical failures, warning signs and what to do about them

Day 5: Case studies, workshop and assessment

Group exercise on real cases and a final knowledge check

What the 10-day edition adds

Day 6: Applied project, part 1 – Apply the week-one methods to a case from your organisation

Day 7: Data and digital tools – Software, spreadsheets and digital tools used in practice

Day 8: Lessons from incidents and audits – What investigations and audit findings teach

Day 9: Applied project, part 2 – Complete, test and refine your solution

Day 10: Presentations and final assessment – Present to the group and complete the final assessment

Fees (USD per participant)

Duration	Live online	Classroom	In-house
5 days	\$3,000	\$5,500	On quote
10 days	\$5,500	\$9,900	On quote

Fees include course material and certificate of completion; classroom fees include refreshments and lunch. In-house training is priced per group.

Dates and cities 2027–2030

Dates	City	Format	Duration	Fee
24–28 Jan 2027	Amman	Classroom	5 days	\$5,500
15–26 Feb 2027	Bangkok	Classroom	10 days	\$9,900
14–18 Jun 2027	Istanbul	Classroom	5 days	\$5,500
13–24 Sep 2027	Tbilisi	Classroom	10 days	\$9,900
20–24 Sep 2027	Online (live)	Online (live)	5 days	\$3,000
6–10 Feb 2028	Algiers	Classroom	5 days	\$5,500
27 Feb – 9 Mar 2028	Cairo	Classroom	10 days	\$9,900
12–16 Mar 2028	Muscat	Classroom	5 days	\$5,500
3–14 Apr 2028	Baku	Classroom	10 days	\$9,900
12–16 Jun 2028	Online (live)	Online (live)	5 days	\$3,000
11–15 Feb 2029	Kuwait City	Classroom	5 days	\$5,500
30 Apr – 11 May 2029	Milan	Classroom	10 days	\$9,900
18–22 Jun 2029	Kuala Lumpur	Classroom	5 days	\$5,500
15–26 Oct 2029	Madrid	Classroom	10 days	\$9,900
22–26 Oct 2029	Online (live)	Online (live)	5 days	\$3,000
7–11 Jan 2030	Milan	Classroom	5 days	\$5,500
9–20 Sep 2030	Singapore	Classroom	10 days	\$9,900
23–27 Sep 2030	Tunis	Classroom	5 days	\$5,500
28 Oct – 8 Nov 2030	Beirut	Classroom	10 days	\$9,900
4–8 Nov 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/fire-and-gas-detection-systems/>

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