



Fire & Gas Detection Systems: Practical Workshop

Instrumentation, Control & Automation

QGT-INS-152 | Practical workshop | 5 or 10 days | Online, classroom, in-house

Course overview

Fire & Gas Detection Systems: Practical Workshop is a hands-on workshop built around exercises and real site problems 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 who want practice rather than theory.

Course outline (5 days)

Day 1: Workshop briefing and baseline

Participants bring a real problem from their own site

Day 2: Guided practice 1

Hands-on exercises using templates, checklists and calculators

Day 3: Guided practice 2

Simulations and role-play based on Fire & Gas Detection Systems scenarios

Day 4: Field cases from the Gulf and Africa

Analysing what went wrong and what worked

Day 5: Action plan and peer review

Each participant leaves with a reviewed improvement plan

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
1–5 Mar 2027	Madrid	Classroom	5 days	\$5,500
19–30 Apr 2027	Munich	Classroom	10 days	\$9,900
13–17 Jun 2027	Alexandria	Classroom	5 days	\$5,500
1–12 Aug 2027	Manama	Classroom	10 days	\$9,900
6–10 Dec 2027	Online (live)	Online (live)	5 days	\$3,000
15–19 May 2028	London	Classroom	5 days	\$5,500
25 Sep – 6 Oct 2028	Athens	Classroom	10 days	\$9,900
16–20 Oct 2028	Toronto	Classroom	5 days	\$5,500
5–16 Nov 2028	Riyadh	Classroom	10 days	\$9,900
20–24 Nov 2028	Online (live)	Online (live)	5 days	\$3,000
19–23 Feb 2029	Dubai	Classroom	5 days	\$5,500
30 Apr – 11 May 2029	Dublin	Classroom	10 days	\$9,900
21–25 May 2029	Beirut	Classroom	5 days	\$5,500
25 Jun – 6 Jul 2029	Baku	Classroom	10 days	\$9,900
8–12 Oct 2029	Online (live)	Online (live)	5 days	\$3,000
25–29 Mar 2030	Milan	Classroom	5 days	\$5,500
6–17 May 2030	Kigali	Classroom	10 days	\$9,900
27–31 May 2030	Tunis	Classroom	5 days	\$5,500
2–13 Sep 2030	Johannesburg	Classroom	10 days	\$9,900
2–6 Dec 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-practical-workshop/>

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