



Fire & Gas Detection Systems: Advanced Level

Instrumentation, Control & Automation

QGT-INS-131 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Fire & Gas Detection Systems: Advanced Level is an advanced programme for experienced practitioners 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
- Apply advanced analysis methods to real operating data
- 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 with at least three years of experience.

Course outline (5 days)

Day 1: Core principles revisited

Fast review and recent changes in ISA, IEC 61511, IEC 61508 and IEC 62443

Day 2: Advanced analysis methods

Detailed techniques, data interpretation and calculations

Day 3: Design and performance optimisation

Improving reliability, efficiency and cost

Day 4: Troubleshooting complex cases

Diagnosing multi-cause problems from field data

Day 5: Risk, decisions and integration

Building a risk-based plan and presenting recommendations

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
19–30 Jul 2027	Sharjah	Classroom	10 days	\$9,900
26–30 Jul 2027	Geneva	Classroom	5 days	\$5,500
9–20 Aug 2027	Baku	Classroom	10 days	\$9,900
30 Aug – 3 Sep 2027	Dubai	Classroom	5 days	\$5,500
6–17 Sep 2027	Online (live)	Online (live)	10 days	\$5,500
28 Feb – 10 Mar 2028	Tbilisi	Classroom	10 days	\$9,900
24–28 Apr 2028	Lagos	Classroom	5 days	\$5,500
3–14 Jul 2028	Zurich	Classroom	10 days	\$9,900
2–6 Oct 2028	Tunis	Classroom	5 days	\$5,500
13–24 Nov 2028	Online (live)	Online (live)	10 days	\$5,500
15–26 Jan 2029	Amsterdam	Classroom	10 days	\$9,900
11–15 Mar 2029	Doha	Classroom	5 days	\$5,500
16–27 Jul 2029	Madrid	Classroom	10 days	\$9,900
19–23 Aug 2029	Riyadh	Classroom	5 days	\$5,500
17–28 Sep 2029	Online (live)	Online (live)	10 days	\$5,500
21 Jan – 1 Feb 2030	Singapore	Classroom	10 days	\$9,900
6–10 May 2030	Copenhagen	Classroom	5 days	\$5,500
12–23 Aug 2030	Manchester	Classroom	10 days	\$9,900
2–6 Sep 2030	Brussels	Classroom	5 days	\$5,500
30 Sep – 11 Oct 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

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

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