



Analyzers & Analytical Instrumentation

Instrumentation, Control & Automation

QGT-INS-113 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Analyzers & Analytical Instrumentation is an introduction that builds a solid working knowledge in Analyzers & Analytical Instrumentation. 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 Analyzers & Analytical Instrumentation
- 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 Analyzers & Analytical Instrumentation 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
25–29 Jan 2027	Vienna	Classroom	5 days	\$5,500
12–23 Apr 2027	Istanbul	Classroom	10 days	\$9,900
5–9 Jul 2027	Lisbon	Classroom	5 days	\$5,500
30 Aug – 10 Sep 2027	Milan	Classroom	10 days	\$9,900
15–19 Nov 2027	Online (live)	Online (live)	5 days	\$3,000
8–12 May 2028	Edinburgh	Classroom	5 days	\$5,500
15–26 May 2028	Tunis	Classroom	10 days	\$9,900
25–29 Sep 2028	Frankfurt	Classroom	5 days	\$5,500
30 Oct – 10 Nov 2028	Milan	Classroom	10 days	\$9,900
20–24 Nov 2028	Online (live)	Online (live)	5 days	\$3,000
26–30 Mar 2029	Sharjah	Classroom	5 days	\$5,500
2–13 Apr 2029	Istanbul	Classroom	10 days	\$9,900
3–7 Sep 2029	Casablanca	Classroom	5 days	\$5,500
9–20 Sep 2029	Kuwait City	Classroom	10 days	\$9,900
24–28 Sep 2029	Online (live)	Online (live)	5 days	\$3,000
25 Feb – 1 Mar 2030	Cape Town	Classroom	5 days	\$5,500
27 May – 7 Jun 2030	Marrakech	Classroom	10 days	\$9,900
15–19 Jul 2030	Nairobi	Classroom	5 days	\$5,500
19–30 Aug 2030	Tunis	Classroom	10 days	\$9,900
2–6 Sep 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/analyzers-and-analytical-instrumentation/>

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