



Analyzers & Analytical Instrumentation: Advanced Level

Instrumentation, Control & Automation

QGT-INS-134 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Analyzers & Analytical Instrumentation: Advanced Level is an advanced programme for experienced practitioners 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
- 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
11–22 Jan 2027	Luanda	Classroom	10 days	\$9,900
29 Mar – 2 Apr 2027	Manchester	Classroom	5 days	\$5,500
8–19 Aug 2027	Jeddah	Classroom	10 days	\$9,900
25–29 Oct 2027	London	Classroom	5 days	\$5,500
29 Nov – 10 Dec 2027	Online (live)	Online (live)	10 days	\$5,500
29 May – 9 Jun 2028	Bangkok	Classroom	10 days	\$9,900
25–29 Jun 2028	Alexandria	Classroom	5 days	\$5,500
6–17 Aug 2028	Manama	Classroom	10 days	\$9,900
10–14 Sep 2028	Jeddah	Classroom	5 days	\$5,500
25 Sep – 6 Oct 2028	Online (live)	Online (live)	10 days	\$5,500
28 Jan – 8 Feb 2029	Erbil	Classroom	10 days	\$9,900
13–17 May 2029	Jeddah	Classroom	5 days	\$5,500
22 Jul – 2 Aug 2029	Amman	Classroom	10 days	\$9,900
27–31 Aug 2029	Amsterdam	Classroom	5 days	\$5,500
26 Nov – 7 Dec 2029	Online (live)	Online (live)	10 days	\$5,500
13–24 Jan 2030	Algiers	Classroom	10 days	\$9,900
8–12 Jul 2030	Edinburgh	Classroom	5 days	\$5,500
23 Sep – 4 Oct 2030	Cape Town	Classroom	10 days	\$9,900
29 Sep – 3 Oct 2030	Riyadh	Classroom	5 days	\$5,500
18–29 Nov 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

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

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