



Laboratory Operations & Quality Control: Advanced Level

Process & Chemical Engineering

QGT-PRC-142 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Laboratory Operations & Quality Control: Advanced Level is an advanced programme for experienced practitioners in Laboratory Operations & Quality Control. It covers the principles, the requirements of API, AIChE/CCPS guidelines and licensor practice, 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 Laboratory Operations & Quality Control
- Apply the relevant requirements of API, AIChE/CCPS guidelines and licensor practice
- 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 process engineers, chemical engineers, operators and laboratory staff with at least three years of experience.

Course outline (5 days)

Day 1: Core principles revisited

Fast review and recent changes in API, AIChE/CCPS guidelines and licensor practice

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
10–21 May 2027	Barcelona	Classroom	10 days	\$9,900
12–16 Jul 2027	Kuala Lumpur	Classroom	5 days	\$5,500
30 Aug – 10 Sep 2027	Johannesburg	Classroom	10 days	\$9,900
27 Sep – 1 Oct 2027	Rome	Classroom	5 days	\$5,500
29 Nov – 10 Dec 2027	Online (live)	Online (live)	10 days	\$5,500
24 Jan – 4 Feb 2028	Bangkok	Classroom	10 days	\$9,900
11–15 Jun 2028	Dammam	Classroom	5 days	\$5,500
16–27 Jul 2028	Manama	Classroom	10 days	\$9,900
16–20 Oct 2028	Johannesburg	Classroom	5 days	\$5,500
6–17 Nov 2028	Online (live)	Online (live)	10 days	\$5,500
12–23 Feb 2029	Johannesburg	Classroom	10 days	\$9,900
19–23 Mar 2029	Baku	Classroom	5 days	\$5,500
26 Mar – 6 Apr 2029	Tunis	Classroom	10 days	\$9,900
7–11 May 2029	Abu Dhabi	Classroom	5 days	\$5,500
11–22 Jun 2029	Online (live)	Online (live)	10 days	\$5,500
14–25 Jan 2030	Accra	Classroom	10 days	\$9,900
21–25 Jan 2030	Toronto	Classroom	5 days	\$5,500
13–24 May 2030	Baku	Classroom	10 days	\$9,900
27–31 May 2030	Sharjah	Classroom	5 days	\$5,500
26 Aug – 6 Sep 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/laboratory-operations-and-quality-control-advanced-level/>

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