



Process Design & Equipment Sizing: Advanced Level

Process & Chemical Engineering

QGT-PRC-125 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Process Design & Equipment Sizing: Advanced Level is an advanced programme for experienced practitioners in Process Design & Equipment Sizing. 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 Process Design & Equipment Sizing
- 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
22 Mar – 2 Apr 2027	Vienna	Classroom	10 days	\$9,900
11–15 Apr 2027	Amman	Classroom	5 days	\$5,500
16–27 May 2027	Cairo	Classroom	10 days	\$9,900
23–27 Aug 2027	Tunis	Classroom	5 days	\$5,500
15–26 Nov 2027	Online (live)	Online (live)	10 days	\$5,500
30 Apr – 11 May 2028	Alexandria	Classroom	10 days	\$9,900
31 Jul – 4 Aug 2028	Copenhagen	Classroom	5 days	\$5,500
23 Oct – 3 Nov 2028	Vienna	Classroom	10 days	\$9,900
20–24 Nov 2028	Frankfurt	Classroom	5 days	\$5,500
4–15 Dec 2028	Online (live)	Online (live)	10 days	\$5,500
21 May – 1 Jun 2029	Johannesburg	Classroom	10 days	\$9,900
11–15 Jun 2029	Houston	Classroom	5 days	\$5,500
15–26 Jul 2029	Doha	Classroom	10 days	\$9,900
10–14 Sep 2029	Abu Dhabi	Classroom	5 days	\$5,500
17–28 Sep 2029	Online (live)	Online (live)	10 days	\$5,500
14–25 Jan 2030	Tbilisi	Classroom	10 days	\$9,900
21–25 Jan 2030	Houston	Classroom	5 days	\$5,500
25 Feb – 8 Mar 2030	Sharjah	Classroom	10 days	\$9,900
5–9 May 2030	Alexandria	Classroom	5 days	\$5,500
9–20 Sep 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/process-design-and-equipment-sizing-advanced-level/>

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