



Process Design & Equipment Sizing

Process & Chemical Engineering

QGT-PRC-103 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Process Design & Equipment Sizing is an introduction that builds a solid working knowledge 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
- 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 process engineers, chemical engineers, operators and laboratory 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 Process Design & Equipment Sizing fits into daily operations

Day 2: Codes, standards and requirements

What API, AIChE/CCPS guidelines and licensor practice 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
14–18 Feb 2027	Al Khobar	Classroom	5 days	\$5,500
28 Mar – 8 Apr 2027	Manama	Classroom	10 days	\$9,900
17–21 May 2027	Istanbul	Classroom	5 days	\$5,500
18–29 Jul 2027	Dammam	Classroom	10 days	\$9,900
6–10 Sep 2027	Online (live)	Online (live)	5 days	\$3,000
28 May – 1 Jun 2028	Manama	Classroom	5 days	\$5,500
5–16 Jun 2028	Casablanca	Classroom	10 days	\$9,900
26–30 Jun 2028	Brussels	Classroom	5 days	\$5,500
4–15 Sep 2028	Dublin	Classroom	10 days	\$9,900
2–6 Oct 2028	Online (live)	Online (live)	5 days	\$3,000
19–23 Mar 2029	Abu Dhabi	Classroom	5 days	\$5,500
29 Jul – 9 Aug 2029	Algiers	Classroom	10 days	\$9,900
13–17 Aug 2029	Kigali	Classroom	5 days	\$5,500
17–28 Sep 2029	Frankfurt	Classroom	10 days	\$9,900
5–9 Nov 2029	Online (live)	Online (live)	5 days	\$3,000
28 Jan – 1 Feb 2030	Luanda	Classroom	5 days	\$5,500
25 Feb – 8 Mar 2030	Kuala Lumpur	Classroom	10 days	\$9,900
17–21 Jun 2030	Dublin	Classroom	5 days	\$5,500
21 Oct – 1 Nov 2030	Abu Dhabi	Classroom	10 days	\$9,900
18–22 Nov 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

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

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