



Mass & Energy Balance: Practical Workshop

Process & Chemical Engineering

QGT-PRC-153 | Practical workshop | 5 or 10 days | Online, classroom, in-house

Course overview

Mass & Energy Balance: Practical Workshop is a hands-on workshop built around exercises and real site problems in Mass & Energy Balance. 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 Mass & Energy Balance
- 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 who want practice rather than theory.

Course outline (5 days)

Day 1: Workshop briefing and baseline

Participants bring a real problem from their own site

Day 2: Guided practice 1

Hands-on exercises using templates, checklists and calculators

Day 3: Guided practice 2

Simulations and role-play based on Mass & Energy Balance scenarios

Day 4: Field cases from the Gulf and Africa

Analysing what went wrong and what worked

Day 5: Action plan and peer review

Each participant leaves with a reviewed improvement plan

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
30 May – 3 Jun 2027	Al Khobar	Classroom	5 days	\$5,500
5–16 Jul 2027	Rome	Classroom	10 days	\$9,900
18–22 Jul 2027	Manama	Classroom	5 days	\$5,500
25 Oct – 5 Nov 2027	Prague	Classroom	10 days	\$9,900
6–10 Dec 2027	Online (live)	Online (live)	5 days	\$3,000
30 Apr – 4 May 2028	Alexandria	Classroom	5 days	\$5,500
8–19 May 2028	Frankfurt	Classroom	10 days	\$9,900
29 May – 2 Jun 2028	Rome	Classroom	5 days	\$5,500
18–29 Sep 2028	Johannesburg	Classroom	10 days	\$9,900
13–17 Nov 2028	Online (live)	Online (live)	5 days	\$3,000
8–12 Jan 2029	Dubai	Classroom	5 days	\$5,500
30 Jul – 10 Aug 2029	Manchester	Classroom	10 days	\$9,900
21–25 Oct 2029	Jeddah	Classroom	5 days	\$5,500
5–16 Nov 2029	Johannesburg	Classroom	10 days	\$9,900
19–23 Nov 2029	Online (live)	Online (live)	5 days	\$3,000
4–8 Feb 2030	Beirut	Classroom	5 days	\$5,500
23 Jun – 4 Jul 2030	Kuwait City	Classroom	10 days	\$9,900
8–12 Jul 2030	Bangkok	Classroom	5 days	\$5,500
25 Nov – 6 Dec 2030	Milan	Classroom	10 days	\$9,900
2–6 Dec 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/mass-and-energy-balance-practical-workshop/>

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