



# Laboratory Operations & Quality Control

## Process & Chemical Engineering

QGT-PRC-120 | Foundation | 5 or 10 days | Online, classroom, in-house

### Course overview

Laboratory Operations & Quality Control is an introduction that builds a solid working knowledge 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
- 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 Laboratory Operations & Quality Control 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     |
|---------------------|---------------|---------------|----------|---------|
| 25–29 Jan 2027      | Dubai         | Classroom     | 5 days   | \$5,500 |
| 23 May – 3 Jun 2027 | Manama        | Classroom     | 10 days  | \$9,900 |
| 26–30 Jul 2027      | Johannesburg  | Classroom     | 5 days   | \$5,500 |
| 13–24 Sep 2027      | Munich        | Classroom     | 10 days  | \$9,900 |
| 11–15 Oct 2027      | Online (live) | Online (live) | 5 days   | \$3,000 |
| 13–17 Mar 2028      | Copenhagen    | Classroom     | 5 days   | \$5,500 |
| 27 Mar – 7 Apr 2028 | Stockholm     | Classroom     | 10 days  | \$9,900 |
| 1–5 May 2028        | Edinburgh     | Classroom     | 5 days   | \$5,500 |
| 20–31 Aug 2028      | Algiers       | Classroom     | 10 days  | \$9,900 |
| 2–6 Oct 2028        | Online (live) | Online (live) | 5 days   | \$3,000 |
| 16–20 Apr 2029      | Amsterdam     | Classroom     | 5 days   | \$5,500 |
| 7–18 May 2029       | Luanda        | Classroom     | 10 days  | \$9,900 |
| 4–8 Jun 2029        | Rome          | Classroom     | 5 days   | \$5,500 |
| 17–28 Jun 2029      | Doha          | Classroom     | 10 days  | \$9,900 |
| 13–17 Aug 2029      | Online (live) | Online (live) | 5 days   | \$3,000 |
| 13–17 May 2030      | Bangkok       | Classroom     | 5 days   | \$5,500 |
| 7–18 Oct 2030       | Geneva        | Classroom     | 10 days  | \$9,900 |
| 14–18 Oct 2030      | Madrid        | Classroom     | 5 days   | \$5,500 |
| 27 Oct – 7 Nov 2030 | Erbil         | 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/laboratory-operations-and-quality-control/>

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