



PLC Programming & Troubleshooting

Instrumentation, Control & Automation

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

Course overview

PLC Programming & Troubleshooting is an introduction that builds a solid working knowledge in PLC Programming & Troubleshooting. It covers the principles, the requirements of ISA, IEC 61511, IEC 61508 and IEC 62443, 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 PLC Programming & Troubleshooting
- Apply the relevant requirements of ISA, IEC 61511, IEC 61508 and IEC 62443
- 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 instrument and control engineers, technicians and control room 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 PLC Programming & Troubleshooting fits into daily operations

Day 2: Codes, standards and requirements

What ISA, IEC 61511, IEC 61508 and IEC 62443 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
22–26 Mar 2027	Bangkok	Classroom	5 days	\$5,500
2–13 May 2027	Dammam	Classroom	10 days	\$9,900
24–28 May 2027	Tbilisi	Classroom	5 days	\$5,500
26 Jul – 6 Aug 2027	Prague	Classroom	10 days	\$9,900
9–13 Aug 2027	Online (live)	Online (live)	5 days	\$3,000
24–28 Jan 2028	Johannesburg	Classroom	5 days	\$5,500
22 May – 2 Jun 2028	Barcelona	Classroom	10 days	\$9,900
7–11 Aug 2028	Copenhagen	Classroom	5 days	\$5,500
1–12 Oct 2028	Sharm El Sheikh	Classroom	10 days	\$9,900
23–27 Oct 2028	Online (live)	Online (live)	5 days	\$3,000
26–30 Mar 2029	Geneva	Classroom	5 days	\$5,500
1–12 Apr 2029	Sharm El Sheikh	Classroom	10 days	\$9,900
25–29 Jun 2029	Houston	Classroom	5 days	\$5,500
5–16 Nov 2029	Amsterdam	Classroom	10 days	\$9,900
12–16 Nov 2029	Online (live)	Online (live)	5 days	\$3,000
17–21 Feb 2030	Sharm El Sheikh	Classroom	5 days	\$5,500
4–15 Mar 2030	Amsterdam	Classroom	10 days	\$9,900
10–14 Jun 2030	Lagos	Classroom	5 days	\$5,500
5–16 Aug 2030	Kigali	Classroom	10 days	\$9,900
16–20 Sep 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/plc-programming-and-troubleshooting/>

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