



PLC Programming & Troubleshooting Masterclass

Instrumentation, Control & Automation

QGT-INS-166 | Masterclass | 5 or 10 days | Online, classroom, in-house

Course overview

PLC Programming & Troubleshooting Masterclass is a senior-level masterclass on strategy and performance 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
- Build a business case and roadmap their leadership team can act on

Who should attend

Designed for instrument and control engineers, technicians and control room staff in senior and leadership roles.

Course outline (5 days)

Day 1: Strategic view of PLC Programming & Troubleshooting

Trends, regulation and what leading companies do differently

Day 2: Benchmarking and performance

KPIs, maturity models and gap analysis

Day 3: Lessons from major incidents and projects

Decision points that changed outcomes

Day 4: Leading the change

Building the business case, budget and team capability

Day 5: Masterclass forum

Expert panel, peer exchange and personal roadmap

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	Tbilisi	Classroom	5 days	\$5,500
29 Mar – 9 Apr 2027	Bangkok	Classroom	10 days	\$9,900
12–16 Apr 2027	London	Classroom	5 days	\$5,500
26 Apr – 7 May 2027	Budapest	Classroom	10 days	\$9,900
9–13 Aug 2027	Online (live)	Online (live)	5 days	\$3,000
19–23 Mar 2028	Muscat	Classroom	5 days	\$5,500
30 Apr – 11 May 2028	Amman	Classroom	10 days	\$9,900
26–30 Jun 2028	Barcelona	Classroom	5 days	\$5,500
1–12 Oct 2028	Al Khobar	Classroom	10 days	\$9,900
30 Oct – 3 Nov 2028	Online (live)	Online (live)	5 days	\$3,000
15–19 Jan 2029	Madrid	Classroom	5 days	\$5,500
22 Jan – 2 Feb 2029	Accra	Classroom	10 days	\$9,900
19–23 Mar 2029	Zurich	Classroom	5 days	\$5,500
8–19 Oct 2029	Sharjah	Classroom	10 days	\$9,900
19–23 Nov 2029	Online (live)	Online (live)	5 days	\$3,000
29 Apr – 3 May 2030	Marrakech	Classroom	5 days	\$5,500
2–13 Jun 2030	Kuwait City	Classroom	10 days	\$9,900
9–13 Jun 2030	Manama	Classroom	5 days	\$5,500
30 Sep – 11 Oct 2030	Copenhagen	Classroom	10 days	\$9,900
25–29 Nov 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-masterclass/>

WhatsApp: +971 50 697 0908

Email: training@qimmatrainig.com

