



Advanced Process Control (APC)

Instrumentation, Control & Automation

QGT-INS-115 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Advanced Process Control (APC) is an introduction that builds a solid working knowledge in Advanced Process Control (APC). 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 Advanced Process Control (APC)
- 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 Advanced Process Control (APC) 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
8–12 Mar 2027	Abu Dhabi	Classroom	5 days	\$5,500
31 May – 11 Jun 2027	Sharjah	Classroom	10 days	\$9,900
18–22 Jul 2027	Al Khobar	Classroom	5 days	\$5,500
3–14 Oct 2027	Jeddah	Classroom	10 days	\$9,900
15–19 Nov 2027	Online (live)	Online (live)	5 days	\$3,000
6–10 Mar 2028	Barcelona	Classroom	5 days	\$5,500
23 Apr – 4 May 2028	Amman	Classroom	10 days	\$9,900
28 May – 1 Jun 2028	Jeddah	Classroom	5 days	\$5,500
18–29 Jun 2028	Riyadh	Classroom	10 days	\$9,900
14–18 Aug 2028	Online (live)	Online (live)	5 days	\$3,000
15–19 Jan 2029	Dublin	Classroom	5 days	\$5,500
14–25 May 2029	Nairobi	Classroom	10 days	\$9,900
28 May – 1 Jun 2029	Berlin	Classroom	5 days	\$5,500
2–13 Jul 2029	Prague	Classroom	10 days	\$9,900
9–13 Jul 2029	Online (live)	Online (live)	5 days	\$3,000
25 Feb – 1 Mar 2030	Munich	Classroom	5 days	\$5,500
5–16 Aug 2030	Stockholm	Classroom	10 days	\$9,900
2–6 Sep 2030	Kigali	Classroom	5 days	\$5,500
4–15 Nov 2030	Nairobi	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/advanced-process-control-apc/>

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