



Distributed Control Systems (DCS)

Instrumentation, Control & Automation

QGT-INS-104 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Distributed Control Systems (DCS) is an introduction that builds a solid working knowledge in Distributed Control Systems (DCS). 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 Distributed Control Systems (DCS)
- 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 Distributed Control Systems (DCS) 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
1–5 Mar 2027	Beirut	Classroom	5 days	\$5,500
29 Mar – 9 Apr 2027	Johannesburg	Classroom	10 days	\$9,900
5–9 Apr 2027	Dublin	Classroom	5 days	\$5,500
19–30 Jul 2027	Frankfurt	Classroom	10 days	\$9,900
16–20 Aug 2027	Online (live)	Online (live)	5 days	\$3,000
10–14 Jan 2028	Cape Town	Classroom	5 days	\$5,500
7–18 Feb 2028	Zurich	Classroom	10 days	\$9,900
19–23 Mar 2028	Sharm El Sheikh	Classroom	5 days	\$5,500
17–28 Jul 2028	Budapest	Classroom	10 days	\$9,900
6–10 Nov 2028	Online (live)	Online (live)	5 days	\$3,000
5–9 Mar 2029	Luanda	Classroom	5 days	\$5,500
28 May – 8 Jun 2029	Berlin	Classroom	10 days	\$9,900
18–22 Jun 2029	Toronto	Classroom	5 days	\$5,500
9–20 Jul 2029	Stockholm	Classroom	10 days	\$9,900
10–14 Sep 2029	Online (live)	Online (live)	5 days	\$3,000
18–22 Feb 2030	Lagos	Classroom	5 days	\$5,500
7–18 Apr 2030	Al Khobar	Classroom	10 days	\$9,900
22–26 Apr 2030	Johannesburg	Classroom	5 days	\$5,500
20–31 May 2030	Prague	Classroom	10 days	\$9,900
26–30 Aug 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/distributed-control-systems-dcs/>

WhatsApp: +971 50 697 0908

Email: training@qimmatrainig.com

