



Smart Grids & Digital Substations: Practical Workshop

Electrical Engineering

QGT-ELE-164 | Practical workshop | 5 or 10 days | Online, classroom, in-house

Course overview

Smart Grids & Digital Substations: Practical Workshop is a hands-on workshop built around exercises and real site problems in Smart Grids & Digital Substations. It covers the principles, the requirements of IEC, IEEE and NFPA 70/70E, 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 Smart Grids & Digital Substations
- Apply the relevant requirements of IEC, IEEE and NFPA 70/70E
- 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 electrical engineers, technicians, supervisors and authorised persons who want practice rather than theory.

Course outline (5 days)

Day 1: Workshop briefing and baseline

Participants bring a real problem from their own site

Day 2: Guided practice 1

Hands-on exercises using templates, checklists and calculators

Day 3: Guided practice 2

Simulations and role-play based on Smart Grids & Digital Substations scenarios

Day 4: Field cases from the Gulf and Africa

Analysing what went wrong and what worked

Day 5: Action plan and peer review

Each participant leaves with a reviewed improvement plan

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
28 Feb – 4 Mar 2027	Amman	Classroom	5 days	\$5,500
14–25 Jun 2027	Casablanca	Classroom	10 days	\$9,900
22–26 Nov 2027	Brussels	Classroom	5 days	\$5,500
29 Nov – 10 Dec 2027	Beirut	Classroom	10 days	\$9,900
6–10 Dec 2027	Online (live)	Online (live)	5 days	\$3,000
16–20 Jan 2028	Doha	Classroom	5 days	\$5,500
27 Mar – 7 Apr 2028	Dublin	Classroom	10 days	\$9,900
12–16 Jun 2028	Milan	Classroom	5 days	\$5,500
24 Jul – 4 Aug 2028	Brussels	Classroom	10 days	\$9,900
7–11 Aug 2028	Online (live)	Online (live)	5 days	\$3,000
12–16 Mar 2029	Sharjah	Classroom	5 days	\$5,500
2–13 Jul 2029	Frankfurt	Classroom	10 days	\$9,900
6–10 Aug 2029	Kigali	Classroom	5 days	\$5,500
13–24 Aug 2029	Copenhagen	Classroom	10 days	\$9,900
8–12 Oct 2029	Online (live)	Online (live)	5 days	\$3,000
25 Feb – 1 Mar 2030	Lagos	Classroom	5 days	\$5,500
8–19 Apr 2030	Geneva	Classroom	10 days	\$9,900
17–21 Jun 2030	Kigali	Classroom	5 days	\$5,500
29 Jul – 9 Aug 2030	Copenhagen	Classroom	10 days	\$9,900
14–18 Oct 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/smart-grids-and-digital-substations-practical-workshop/>

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