



Substation Design & Maintenance: Practical Workshop

Electrical Engineering

QGT-ELE-155 | Practical workshop | 5 or 10 days | Online, classroom, in-house

Course overview

Substation Design & Maintenance: Practical Workshop is a hands-on workshop built around exercises and real site problems in Substation Design & Maintenance. 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 Substation Design & Maintenance
- 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 Substation Design & Maintenance 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
17–21 Jan 2027	Erbil	Classroom	5 days	\$5,500
24 Jan – 4 Feb 2027	Cairo	Classroom	10 days	\$9,900
8–12 Feb 2027	Edinburgh	Classroom	5 days	\$5,500
1–12 Nov 2027	Singapore	Classroom	10 days	\$9,900
15–19 Nov 2027	Online (live)	Online (live)	5 days	\$3,000
24–28 Jan 2028	Manchester	Classroom	5 days	\$5,500
6–17 Mar 2028	Marrakech	Classroom	10 days	\$9,900
26–30 Mar 2028	Amman	Classroom	5 days	\$5,500
2–13 Oct 2028	Stockholm	Classroom	10 days	\$9,900
9–13 Oct 2028	Online (live)	Online (live)	5 days	\$3,000
15–19 Jan 2029	Johannesburg	Classroom	5 days	\$5,500
9–20 Apr 2029	Luanda	Classroom	10 days	\$9,900
25–29 Jun 2029	Casablanca	Classroom	5 days	\$5,500
7–18 Oct 2029	Alexandria	Classroom	10 days	\$9,900
26–30 Nov 2029	Online (live)	Online (live)	5 days	\$3,000
8–12 Jul 2030	Luanda	Classroom	5 days	\$5,500
26 Aug – 6 Sep 2030	Athens	Classroom	10 days	\$9,900
14–18 Oct 2030	Lisbon	Classroom	5 days	\$5,500
18–29 Nov 2030	Munich	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/substation-design-and-maintenance-practical-workshop/>

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