



Substation Design & Maintenance: Advanced Level

Electrical Engineering

QGT-ELE-133 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Substation Design & Maintenance: Advanced Level is an advanced programme for experienced practitioners 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
- Apply advanced analysis methods to real operating data
- 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 with at least three years of experience.

Course outline (5 days)

Day 1: Core principles revisited

Fast review and recent changes in IEC, IEEE and NFPA 70/70E

Day 2: Advanced analysis methods

Detailed techniques, data interpretation and calculations

Day 3: Design and performance optimisation

Improving reliability, efficiency and cost

Day 4: Troubleshooting complex cases

Diagnosing multi-cause problems from field data

Day 5: Risk, decisions and integration

Building a risk-based plan and presenting recommendations

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
26 Apr – 7 May 2027	Nairobi	Classroom	10 days	\$9,900
7–11 Jun 2027	Prague	Classroom	5 days	\$5,500
15–26 Aug 2027	Manama	Classroom	10 days	\$9,900
29 Nov – 3 Dec 2027	Sharjah	Classroom	5 days	\$5,500
6–17 Dec 2027	Online (live)	Online (live)	10 days	\$5,500
9–20 Jan 2028	Doha	Classroom	10 days	\$9,900
13–17 Mar 2028	Cape Town	Classroom	5 days	\$5,500
19–30 Jun 2028	Milan	Classroom	10 days	\$9,900
16–20 Oct 2028	Accra	Classroom	5 days	\$5,500
13–24 Nov 2028	Online (live)	Online (live)	10 days	\$5,500
8–19 Jan 2029	Dubai	Classroom	10 days	\$9,900
22–26 Jan 2029	Tbilisi	Classroom	5 days	\$5,500
23 Sep – 4 Oct 2029	Cairo	Classroom	10 days	\$9,900
8–12 Oct 2029	London	Classroom	5 days	\$5,500
26 Nov – 7 Dec 2029	Online (live)	Online (live)	10 days	\$5,500
17–28 Feb 2030	Manama	Classroom	10 days	\$9,900
17–21 Jun 2030	Sharjah	Classroom	5 days	\$5,500
14–25 Jul 2030	Muscat	Classroom	10 days	\$9,900
14–18 Oct 2030	Dublin	Classroom	5 days	\$5,500
11–22 Nov 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/substation-design-and-maintenance-advanced-level/>

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