



Smart Grids & Digital Substations: Advanced Level

Electrical Engineering

QGT-ELE-142 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Smart Grids & Digital Substations: Advanced Level is an advanced programme for experienced practitioners 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
- 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
11–22 Jan 2027	Sharjah	Classroom	10 days	\$9,900
1–5 Mar 2027	Johannesburg	Classroom	5 days	\$5,500
20 Sep – 1 Oct 2027	Istanbul	Classroom	10 days	\$9,900
25–29 Oct 2027	Tunis	Classroom	5 days	\$5,500
6–17 Dec 2027	Online (live)	Online (live)	10 days	\$5,500
6–17 Mar 2028	Geneva	Classroom	10 days	\$9,900
7–11 May 2028	Al Khobar	Classroom	5 days	\$5,500
22 May – 2 Jun 2028	Dubai	Classroom	10 days	\$9,900
30 Jul – 3 Aug 2028	Riyadh	Classroom	5 days	\$5,500
13–24 Nov 2028	Online (live)	Online (live)	10 days	\$5,500
26 Mar – 6 Apr 2029	Johannesburg	Classroom	10 days	\$9,900
21–25 May 2029	Nairobi	Classroom	5 days	\$5,500
9–20 Sep 2029	Manama	Classroom	10 days	\$9,900
22–26 Oct 2029	Manchester	Classroom	5 days	\$5,500
3–14 Dec 2029	Online (live)	Online (live)	10 days	\$5,500
3–14 Jun 2030	Madrid	Classroom	10 days	\$9,900
8–12 Jul 2030	Nairobi	Classroom	5 days	\$5,500
11–22 Aug 2030	Sharm El Sheikh	Classroom	10 days	\$9,900
21–25 Oct 2030	Cape Town	Classroom	5 days	\$5,500
4–15 Nov 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/smart-grids-and-digital-substations-advanced-level/>

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