



Electrical Power Systems Fundamentals: Advanced Level

Electrical Engineering

QGT-ELE-123 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Electrical Power Systems Fundamentals: Advanced Level is an advanced programme for experienced practitioners in Electrical Power Systems Fundamentals. 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 Electrical Power Systems Fundamentals
- 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
14–25 Mar 2027	Dammam	Classroom	10 days	\$9,900
29 Mar – 2 Apr 2027	Tunis	Classroom	5 days	\$5,500
12–23 Jul 2027	Beirut	Classroom	10 days	\$9,900
6–10 Sep 2027	Lagos	Classroom	5 days	\$5,500
6–17 Dec 2027	Online (live)	Online (live)	10 days	\$5,500
10–21 Jul 2028	Bangkok	Classroom	10 days	\$9,900
24–28 Jul 2028	Johannesburg	Classroom	5 days	\$5,500
21 Aug – 1 Sep 2028	Nairobi	Classroom	10 days	\$9,900
28 Aug – 1 Sep 2028	Munich	Classroom	5 days	\$5,500
13–24 Nov 2028	Online (live)	Online (live)	10 days	\$5,500
15–26 Jan 2029	Frankfurt	Classroom	10 days	\$9,900
19–23 Mar 2029	Sharjah	Classroom	5 days	\$5,500
3–14 Jun 2029	Manama	Classroom	10 days	\$9,900
1–5 Oct 2029	Dubai	Classroom	5 days	\$5,500
19–30 Nov 2029	Online (live)	Online (live)	10 days	\$5,500
7–18 Apr 2030	Kuwait City	Classroom	10 days	\$9,900
13–17 May 2030	Kuala Lumpur	Classroom	5 days	\$5,500
28 Jul – 8 Aug 2030	Sharm El Sheikh	Classroom	10 days	\$9,900
5–9 Aug 2030	Dubai	Classroom	5 days	\$5,500
16–27 Sep 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/electrical-power-systems-fundamentals-advanced-level/>

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