



Electrical Power Systems Fundamentals: Practical Workshop

Electrical Engineering

QGT-ELE-145 | Practical workshop | 5 or 10 days | Online, classroom, in-house

Course overview

Electrical Power Systems Fundamentals: Practical Workshop is a hands-on workshop built around exercises and real site problems 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
- 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 Electrical Power Systems Fundamentals 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
1–5 Mar 2027	Abu Dhabi	Classroom	5 days	\$5,500
17–28 May 2027	Toronto	Classroom	10 days	\$9,900
2–6 Aug 2027	Kigali	Classroom	5 days	\$5,500
27 Sep – 8 Oct 2027	Cape Town	Classroom	10 days	\$9,900
1–5 Nov 2027	Online (live)	Online (live)	5 days	\$3,000
30 Jul – 3 Aug 2028	Muscat	Classroom	5 days	\$5,500
28 Aug – 8 Sep 2028	Nairobi	Classroom	10 days	\$9,900
2–6 Oct 2028	Lisbon	Classroom	5 days	\$5,500
23 Oct – 3 Nov 2028	Brussels	Classroom	10 days	\$9,900
27 Nov – 1 Dec 2028	Online (live)	Online (live)	5 days	\$3,000
18–22 Feb 2029	Kuwait City	Classroom	5 days	\$5,500
7–18 May 2029	Luanda	Classroom	10 days	\$9,900
11–15 Jun 2029	Budapest	Classroom	5 days	\$5,500
8–19 Jul 2029	Alexandria	Classroom	10 days	\$9,900
17–21 Sep 2029	Online (live)	Online (live)	5 days	\$3,000
22–26 Apr 2030	Vienna	Classroom	5 days	\$5,500
9–20 Jun 2030	Al Khobar	Classroom	10 days	\$9,900
8–12 Jul 2030	Istanbul	Classroom	5 days	\$5,500
19–30 Aug 2030	Frankfurt	Classroom	10 days	\$9,900
11–15 Nov 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/electrical-power-systems-fundamentals-practical-workshop>

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