



Electrical Power Systems Fundamentals

Electrical Engineering

QGT-ELE-101 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Electrical Power Systems Fundamentals is an introduction that builds a solid working knowledge 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, new joiners and anyone who needs a solid grounding in the subject.

Course outline (5 days)

Day 1: Principles and terminology

Scope, key definitions and how Electrical Power Systems Fundamentals fits into daily operations

Day 2: Codes, standards and requirements

What IEC, IEEE and NFPA 70/70E require, and how to read them

Day 3: Methods, tools and calculations

Step-by-step methods, checklists and worked examples

Day 4: Operation, inspection and common problems

Typical failures, warning signs and what to do about them

Day 5: Case studies, workshop and assessment

Group exercise on real cases and a final knowledge check

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
31 Jan – 4 Feb 2027	Al Khobar	Classroom	5 days	\$5,500
4–15 Apr 2027	Dammam	Classroom	10 days	\$9,900
16–20 Aug 2027	Nairobi	Classroom	5 days	\$5,500
4–15 Oct 2027	Lagos	Classroom	10 days	\$9,900
18–22 Oct 2027	Online (live)	Online (live)	5 days	\$3,000
7–11 Feb 2028	Nairobi	Classroom	5 days	\$5,500
26 Mar – 6 Apr 2028	Amman	Classroom	10 days	\$9,900
8–12 May 2028	Casablanca	Classroom	5 days	\$5,500
5–16 Nov 2028	Algiers	Classroom	10 days	\$9,900
27 Nov – 1 Dec 2028	Online (live)	Online (live)	5 days	\$3,000
4–8 Feb 2029	Algiers	Classroom	5 days	\$5,500
9–20 Apr 2029	Baku	Classroom	10 days	\$9,900
23–27 Apr 2029	Abu Dhabi	Classroom	5 days	\$5,500
18–29 Jun 2029	Lagos	Classroom	10 days	\$9,900
9–13 Jul 2029	Online (live)	Online (live)	5 days	\$3,000
4–8 Feb 2030	Munich	Classroom	5 days	\$5,500
31 Mar – 11 Apr 2030	Dammam	Classroom	10 days	\$9,900
6–10 May 2030	Dubai	Classroom	5 days	\$5,500
17–28 Jun 2030	Kigali	Classroom	10 days	\$9,900
26–30 Aug 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/>

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