



Load Flow & Short Circuit Studies: Practical Workshop

Electrical Engineering

QGT-ELE-159 | Practical workshop | 5 or 10 days | Online, classroom, in-house

Course overview

Load Flow & Short Circuit Studies: Practical Workshop is a hands-on workshop built around exercises and real site problems in Load Flow & Short Circuit Studies. 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 Load Flow & Short Circuit Studies
- 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 Load Flow & Short Circuit Studies 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
29 Mar – 2 Apr 2027	Tbilisi	Classroom	5 days	\$5,500
31 May – 11 Jun 2027	Dubai	Classroom	10 days	\$9,900
20–24 Sep 2027	Sharjah	Classroom	5 days	\$5,500
17–28 Oct 2027	Cairo	Classroom	10 days	\$9,900
6–10 Dec 2027	Online (live)	Online (live)	5 days	\$3,000
28 Feb – 3 Mar 2028	Milan	Classroom	5 days	\$5,500
10–21 Apr 2028	Houston	Classroom	10 days	\$9,900
14–18 Aug 2028	Singapore	Classroom	5 days	\$5,500
28 Aug – 8 Sep 2028	Frankfurt	Classroom	10 days	\$9,900
2–6 Oct 2028	Online (live)	Online (live)	5 days	\$3,000
4–8 Feb 2029	Algiers	Classroom	5 days	\$5,500
26 Feb – 9 Mar 2029	Nairobi	Classroom	10 days	\$9,900
12–16 Mar 2029	Baku	Classroom	5 days	\$5,500
25 Mar – 5 Apr 2029	Erbil	Classroom	10 days	\$9,900
24–28 Sep 2029	Online (live)	Online (live)	5 days	\$3,000
25–29 Mar 2030	Manchester	Classroom	5 days	\$5,500
27 May – 7 Jun 2030	London	Classroom	10 days	\$9,900
10–14 Jun 2030	Nairobi	Classroom	5 days	\$5,500
14–25 Jul 2030	Amman	Classroom	10 days	\$9,900
19–23 Aug 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/load-flow-and-short-circuit-studies-practical-workshop/>

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