



Load Flow & Short Circuit Studies

Electrical Engineering

QGT-ELE-115 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Load Flow & Short Circuit Studies is an introduction that builds a solid working knowledge 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, 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 Load Flow & Short Circuit Studies 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
11–15 Jan 2027	Amsterdam	Classroom	5 days	\$5,500
15–26 Mar 2027	Lagos	Classroom	10 days	\$9,900
13–17 Jun 2027	Manama	Classroom	5 days	\$5,500
2–13 Aug 2027	Vienna	Classroom	10 days	\$9,900
20–24 Sep 2027	Online (live)	Online (live)	5 days	\$3,000
24–28 Jan 2028	Copenhagen	Classroom	5 days	\$5,500
27 Mar – 7 Apr 2028	Istanbul	Classroom	10 days	\$9,900
29 May – 2 Jun 2028	Abu Dhabi	Classroom	5 days	\$5,500
18–29 Jun 2028	Manama	Classroom	10 days	\$9,900
31 Jul – 4 Aug 2028	Online (live)	Online (live)	5 days	\$3,000
11–15 Feb 2029	Manama	Classroom	5 days	\$5,500
14–25 May 2029	Luanda	Classroom	10 days	\$9,900
17–21 Sep 2029	Berlin	Classroom	5 days	\$5,500
15–26 Oct 2029	Dublin	Classroom	10 days	\$9,900
22–26 Oct 2029	Online (live)	Online (live)	5 days	\$3,000
28 Jan – 1 Feb 2030	Berlin	Classroom	5 days	\$5,500
8–19 Jul 2030	Singapore	Classroom	10 days	\$9,900
15–19 Jul 2030	Edinburgh	Classroom	5 days	\$5,500
5–16 Aug 2030	Kuala Lumpur	Classroom	10 days	\$9,900
14–18 Oct 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/>

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