



Load Flow & Short Circuit Studies: Advanced Level

Electrical Engineering

QGT-ELE-137 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Load Flow & Short Circuit Studies: Advanced Level is an advanced programme for experienced practitioners 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
- 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
8–19 Mar 2027	Munich	Classroom	10 days	\$9,900
10–14 May 2027	Tunis	Classroom	5 days	\$5,500
21 Jun – 2 Jul 2027	Copenhagen	Classroom	10 days	\$9,900
19–23 Jul 2027	Frankfurt	Classroom	5 days	\$5,500
23 Aug – 3 Sep 2027	Online (live)	Online (live)	10 days	\$5,500
24 Jan – 4 Feb 2028	Kuala Lumpur	Classroom	10 days	\$9,900
6–10 Mar 2028	Abu Dhabi	Classroom	5 days	\$5,500
1–12 May 2028	Casablanca	Classroom	10 days	\$9,900
5–9 Jun 2028	Rome	Classroom	5 days	\$5,500
28 Aug – 8 Sep 2028	Online (live)	Online (live)	10 days	\$5,500
7–18 Jan 2029	Al Khobar	Classroom	10 days	\$9,900
19–23 Feb 2029	Munich	Classroom	5 days	\$5,500
23 Jul – 3 Aug 2029	Stockholm	Classroom	10 days	\$9,900
13–17 Aug 2029	Budapest	Classroom	5 days	\$5,500
15–26 Oct 2029	Online (live)	Online (live)	10 days	\$5,500
7–18 Jan 2030	Brussels	Classroom	10 days	\$9,900
14–18 Apr 2030	Alexandria	Classroom	5 days	\$5,500
15–26 Jul 2030	Barcelona	Classroom	10 days	\$9,900
2–6 Sep 2030	Marrakech	Classroom	5 days	\$5,500
4–15 Nov 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

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

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