



Earthing, Grounding & Lightning Protection: Advanced Level

Electrical Engineering

QGT-ELE-131 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Earthing, Grounding & Lightning Protection: Advanced Level is an advanced programme for experienced practitioners in Earthing, Grounding & Lightning Protection. 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 Earthing, Grounding & Lightning Protection
- 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
1–12 Feb 2027	Johannesburg	Classroom	10 days	\$9,900
14–18 Feb 2027	Dammam	Classroom	5 days	\$5,500
19–30 Apr 2027	Prague	Classroom	10 days	\$9,900
28 Jun – 2 Jul 2027	Zurich	Classroom	5 days	\$5,500
26 Jul – 6 Aug 2027	Online (live)	Online (live)	10 days	\$5,500
17–28 Jan 2028	Houston	Classroom	10 days	\$9,900
14–18 Feb 2028	Brussels	Classroom	5 days	\$5,500
6–17 Mar 2028	Accra	Classroom	10 days	\$9,900
19–23 Jun 2028	Budapest	Classroom	5 days	\$5,500
30 Oct – 10 Nov 2028	Online (live)	Online (live)	10 days	\$5,500
25 Feb – 8 Mar 2029	Erbil	Classroom	10 days	\$9,900
28 May – 1 Jun 2029	Munich	Classroom	5 days	\$5,500
30 Jul – 10 Aug 2029	Casablanca	Classroom	10 days	\$9,900
29 Oct – 2 Nov 2029	Abu Dhabi	Classroom	5 days	\$5,500
12–23 Nov 2029	Online (live)	Online (live)	10 days	\$5,500
14–25 Jan 2030	Edinburgh	Classroom	10 days	\$9,900
18–22 Feb 2030	Geneva	Classroom	5 days	\$5,500
12–23 May 2030	Sharm El Sheikh	Classroom	10 days	\$9,900
15–19 Jul 2030	Singapore	Classroom	5 days	\$5,500
28 Oct – 8 Nov 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/earthing-grounding-and-lightning-protection-advanced-level>

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