Garnet
Garnet Global Training Center

GGT-EI-115

Electrical, Instrumentation & Control

Earthing & Lightning Protection

التأريض والحماية من الصواعق

Duration	Language	Formats	Hours	Level
5 or 10 days	**English or Arabic**	**Classroom, online, in-house**	**35 / 70**	**Intermediate (practitioner)**

Overview

Participants in Earthing & Lightning Protection practise the methods, tools and standards they need to perform reliably and solve problems on the job. Power, protection and automation skills for plants, utilities and smart infrastructure. You can join a public session in one of 20 cities or live online, in English or Arabic, or bring the course in-house with examples from your own operations.

What you will be able to do

- Apply the methods and standards of Earthing & Lightning Protection to real tasks.
- Use the right tools, checks and calculations step by step.
- Diagnose common problems and identify root causes.
- Interpret data and results correctly and act on them.
- Follow safe, compliant and documented work practices.

Who should attend

Electrical, instrumentation and control engineers, technicians and maintenance leads. Practitioners with one to five years of experience benefit most.

Key topics

- Power system fundamentals and studies
- Protection, earthing and safety
- Control system architecture
- Field devices and loop checking
- IEC and IEEE standards
- Troubleshooting with real fault records

Formats and fees

5-day classroom	**USD 4,750**
5-day online	**USD 2,950**
10-day classroom	**USD 8,950**
10-day online	**USD 5,450**
In-house	**Quotation per group**

Fees per participant, excluding VAT.

Register or ask

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Email: info@garnettrainings.com

Training: training@garnettrainings.com

Web: garnettrainings.com

Sharjah Publishing City Free Zone, Sharjah, UAE

Certificate

Participants who attend at least 90% of sessions and complete the final assessment receive a certificate of completion stating 35 contact hours (5-day) or 70 contact hours (10-day).

5-day outline

Day 1 Earthing & Lightning Protection: principles and standards

- Troubleshooting with real fault records
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice

- Power system fundamentals and studies
- Protection, earthing and safety

Day 3 Diagnosis and problem solving

- Control system architecture
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation

- Field devices and loop checking
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- IEC and IEEE standards
- Checklists and templates to take away

10-day outline

Day 1 Earthing & Lightning Protection: principles and standards

- Troubleshooting with real fault records
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice

- Power system fundamentals and studies
- Protection, earthing and safety

Day 3 Diagnosis and problem solving

- Control system architecture
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation

- Field devices and loop checking
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- IEC and IEEE standards
- Checklists and templates to take away

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Group discussion and peer review

Day 7 Digital tools, data and automation

- Analysis tools and software
- Using AI in this field

Day 8 Benchmarking against international practice

- Global performance benchmarks
- Measurement and reporting

Day 9 Capstone project

- Analyse a real challenge from your organisation
- Build the solution and implementation plan

Day 10 Presentations, final assessment and certificates

- Project presentations and review
- Final exam and certificate award

Schedule 2027–2030

Dates	Format	City	Language	Fee (USD)
18–22 Jan 2027	5-day online	Live online	English	2,950
15–19 Mar 2027	5-day classroom	Dubai	Arabic	4,750
4–15 Jul 2027	10-day classroom	Muscat	English	8,950
16–20 Aug 2027	5-day classroom	Istanbul	English	4,750
5–16 Jun 2028	10-day online	Live online	English	5,450
7–18 Aug 2028	10-day classroom	Barcelona	English	8,950
8–12 Oct 2028	5-day classroom	Cairo	Arabic	4,750
11–15 Dec 2028	5-day classroom	London	English	4,750
1–5 Jan 2029	5-day classroom	Dubai	Arabic	4,750

Dates	Format	City	Language	Fee (USD)
13–17 May 2029	5-day classroom	Riyadh	Arabic	4,750
11–15 Jun 2029	5-day online	Live online	Arabic	2,950
10–21 Sep 2029	10-day classroom	Paris	English	8,950
11–15 Feb 2030	5-day classroom	Abu Dhabi	Arabic	4,750
15–26 Apr 2030	10-day online	Live online	English	5,450
2–13 Jun 2030	10-day classroom	Riyadh	English	8,950
4–8 Nov 2030	5-day classroom	Vienna	English	4,750

Customised and in-house versions of this course are available on request. garnettrainings.com/en/customise/