Garnet
Garnet Global Training Center

GGT-EI-101

Electrical, Instrumentation & Control

Power System Protection & Relaying

حماية أنظمة القوى والمرحلات

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

Overview

Power System Protection & Relaying turns established good practice into step-by-step methods that participants rehearse in exercises and then apply at work. Power, protection and automation skills for plants, utilities and smart infrastructure. Choose 5 or 10 days, classroom or live online, English or Arabic; organisations can also run it in-house and adapt the examples to their own work.

What you will be able to do

- Apply the methods and standards of Power System Protection & Relaying to real tasks.
- Share good practice with your team.
- 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.

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 Power System Protection & Relaying: principles and standards

- Protection, earthing and safety
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice

- Control system architecture
- Field devices and loop checking

Day 3 Diagnosis and problem solving

- IEC and IEEE standards
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation

- Troubleshooting with real fault records
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Power system fundamentals and studies
- Checklists and templates to take away

10-day outline

Day 1 Power System Protection & Relaying: principles and standards

- Protection, earthing and safety
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice

- Control system architecture
- Field devices and loop checking

Day 3 Diagnosis and problem solving

- IEC and IEEE standards
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation

- Troubleshooting with real fault records
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Power system fundamentals and studies
- 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)
11–22 Apr 2027	10-day classroom	Kuwait City	Arabic	8,950
13–17 Jun 2027	5-day classroom	Jeddah	English	4,750
14–18 Nov 2027	5-day classroom	Riyadh	English	4,750
6–10 Dec 2027	5-day online	Live online	English	2,950
12–23 Jun 2028	10-day classroom	Amsterdam	English	8,950
21–25 Aug 2028	5-day classroom	Abu Dhabi	English	4,750
2–6 Oct 2028	5-day classroom	Paris	English	4,750
4–15 Dec 2028	10-day online	Live online	Arabic	5,450
15–19 Jan 2029	5-day classroom	Casablanca	English	4,750

Dates	Format	City	Language	Fee (USD)
16–27 Apr 2029	10-day classroom	Paris	English	8,950
16–20 Jul 2029	5-day online	Live online	English	2,950
16–20 Sep 2029	5-day classroom	Muscat	English	4,750
18–29 Mar 2030	10-day classroom	Vienna	English	8,950
8–12 Jul 2030	5-day classroom	Kuala Lumpur	English	4,750
18–29 Nov 2030	10-day online	Live online	English	5,450
9–13 Dec 2030	5-day classroom	Paris	English	4,750

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