Garnet
Garnet Global Training Center

GGT-EI-111

Electrical, Instrumentation & Control

Power Quality & Harmonics

جودة الطاقة والتوافقيات

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

Overview

Power Quality & Harmonics 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. 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 Power Quality & Harmonics to real tasks.
- Avoid the mistakes that most often cause rework or failure.
- Share good practice with your team.
- Use the right tools, checks and calculations step by step.
- Diagnose common problems and identify root causes.

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

WhatsApp: +971 56 674 7382

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 Quality & Harmonics: principles and standards

- IEC and IEEE standards
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice

- Troubleshooting with real fault records
- Power system fundamentals and studies

Day 3 Diagnosis and problem solving

- Protection, earthing and safety
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation

- Control system architecture
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Field devices and loop checking
- Checklists and templates to take away

10-day outline

Day 1 Power Quality & Harmonics: principles and standards

- IEC and IEEE standards
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice

- Troubleshooting with real fault records
- Power system fundamentals and studies

Day 3 Diagnosis and problem solving

- Protection, earthing and safety
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation

- Control system architecture
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Field devices and loop checking
- 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)
1–5 Feb 2027	5-day classroom	Paris	English	4,750
3–14 May 2027	10-day classroom	Casablanca	Arabic	8,950
21–25 Jun 2027	5-day online	Live online	English	2,950
5–9 Dec 2027	5-day classroom	Kuwait City	Arabic	4,750
17–21 Jan 2028	5-day classroom	London	English	4,750
20–24 Mar 2028	5-day classroom	Istanbul	English	4,750
16–27 Apr 2028	10-day classroom	Riyadh	Arabic	8,950
10–21 Jul 2028	10-day online	Live online	English	5,450
16–20 Apr 2029	5-day classroom	Dubai	English	4,750

Dates	Format	City	Language	Fee (USD)
10–21 Jun 2029	10-day classroom	Riyadh	English	8,950
8–12 Jul 2029	5-day classroom	Jeddah	Arabic	4,750
17–21 Sep 2029	5-day online	Live online	English	2,950
20–24 May 2030	5-day classroom	Singapore	English	4,750
1–5 Jul 2030	5-day classroom	Dubai	Arabic	4,750
2–13 Sep 2030	10-day classroom	Geneva	English	8,950
18–29 Nov 2030	10-day online	Live online	English	5,450

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