Garnet
Garnet Global Training Center

GGT-EI-116

Electrical, Instrumentation & Control

UPS & Battery Systems

أنظمة UPS والبطاريات

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

Overview

Participants in UPS & Battery Systems 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. It runs as a 5-day or 10-day program in English or Arabic, in classrooms in Dubai, Riyadh, Cairo, London, Istanbul and other cities, or live online, and can be delivered in-house.

What you will be able to do

- Apply the methods and standards of UPS & Battery Systems to real tasks.
- Follow safe, compliant and documented work practices.
- 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.

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 UPS & Battery Systems: principles and standards
- IEC and IEEE standards
- Common mistakes and how to avoid them

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
- Regional and international case studies

Day 4 Quality, safety and documentation
- Control system architecture
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan
- Field devices and loop checking
- Group discussion and peer review

10-day outline

Day 1 UPS & Battery Systems: principles and standards
- IEC and IEEE standards
- Common mistakes and how to avoid them

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
- Regional and international case studies

Day 4 Quality, safety and documentation
- Control system architecture
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan
- Field devices and loop checking
- Group discussion and peer review

Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Measurement and reporting

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
- Hands-on workshop on a workplace challenge

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)
4–8 Jan 2027	5-day classroom	Abu Dhabi	Arabic	4,750
19–30 Apr 2027	10-day classroom	Barcelona	English	8,950
5–9 Jul 2027	5-day classroom	London	English	4,750
2–6 Aug 2027	5-day online	Live online	English	2,950
3–14 Jan 2028	10-day online	Live online	Arabic	5,450
16–20 Apr 2028	5-day classroom	Cairo	English	4,750
21 Aug – 1 Sep 2028	10-day classroom	Singapore	English	8,950
20–24 Nov 2028	5-day classroom	Kuala Lumpur	English	4,750
21–25 May 2029	5-day classroom	Istanbul	English	4,750
11–15 Jun 2029	5-day classroom	Abu Dhabi	Arabic	4,750

Dates	Format	City	Language	Fee (USD)
16–27 Sep 2029	10-day classroom	Riyadh	English	8,950
10–14 Dec 2029	5-day online	Live online	English	2,950
10–14 Mar 2030	5-day classroom	Riyadh	English	4,750
8–19 Apr 2030	10-day classroom	Barcelona	English	8,950
10–14 Jun 2030	5-day classroom	Casablanca	English	4,750
8–19 Jul 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/