Garnet
Garnet Global Training Center

GGT-EI-124

Electrical, Instrumentation & Control

Battery Management Systems

أنظمة إدارة البطاريات

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

Overview

Battery Management Systems helps participants move from doing the work to managing it, with planning tools, control methods and reporting that management trusts. 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

- Set up and run Battery Management Systems as a managed process with clear roles.
- Define KPIs and build simple dashboards for management.
- Control risk, quality and compliance in this area.
- Lead improvement projects and measure their benefit.
- Report clearly to senior management and stakeholders.

Who should attend

Electrical, instrumentation and control engineers, technicians and maintenance leads. It suits supervisors, section heads and specialists who manage, or are about to manage, this area.

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 Battery Management Systems: the management framework

- IEC and IEEE standards
- Group discussion and peer review

Day 2 Planning, resources and budgets

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

Day 3 Performance measurement and control

- Protection, earthing and safety
- Measurement and reporting

Day 4 Risk, compliance and improvement

- Control system architecture
- Hands-on workshop on a workplace challenge

Day 5 Management case study and action plan

- Field devices and loop checking
- Common mistakes and how to avoid them

10-day outline

Day 1 Battery Management Systems: the management framework

- IEC and IEEE standards
- Group discussion and peer review

Day 2 Planning, resources and budgets

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

Day 3 Performance measurement and control

- Protection, earthing and safety
- Measurement and reporting

Day 4 Risk, compliance and improvement

- Control system architecture
- Hands-on workshop on a workplace challenge

Day 5 Management case study and action plan

- Field devices and loop checking
- Common mistakes and how to avoid them

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Regional and international case studies

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
- Checklists and templates to take away

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 online	Live online	English	2,950
11–15 Jul 2027	5-day classroom	Amman	English	4,750
2–13 Aug 2027	10-day classroom	Casablanca	Arabic	8,950
4–8 Oct 2027	5-day classroom	Abu Dhabi	English	4,750
21–25 Feb 2028	5-day classroom	Abu Dhabi	Arabic	4,750
17–21 Apr 2028	5-day classroom	Dubai	Arabic	4,750
4–15 Sep 2028	10-day classroom	Singapore	English	8,950
2–13 Oct 2028	10-day online	Live online	Arabic	5,450
11–15 Jun 2029	5-day classroom	Kuala Lumpur	English	4,750

Dates	Format	City	Language	Fee (USD)
5–16 Aug 2029	10-day classroom	Amman	English	8,950
5–9 Nov 2029	5-day online	Live online	Arabic	2,950
2–6 Dec 2029	5-day classroom	Jeddah	English	4,750
4–8 Feb 2030	5-day classroom	Abu Dhabi	Arabic	4,750
12–23 May 2030	10-day classroom	Muscat	Arabic	8,950
11–15 Aug 2030	5-day classroom	Riyadh	English	4,750
11–22 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/