Garnet
Garnet Global Training Center

GGT-EI-117

Electrical, Instrumentation & Control

Emergency Diesel Generators

مولدات الديزل الاحتياطية

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

Overview

Emergency Diesel Generators 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. 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 Emergency Diesel Generators 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 Emergency Diesel Generators: principles and standards

- Control system architecture
- Group discussion and peer review

Day 2 Methods and tools in practice

- Field devices and loop checking
- IEC and IEEE standards

Day 3 Diagnosis and problem solving

- Troubleshooting with real fault records
- Measurement and reporting

Day 4 Quality, safety and documentation

- Power system fundamentals and studies
- Hands-on workshop on a workplace challenge

Day 5 Workshop, assessment and action plan

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

10-day outline

Day 1 Emergency Diesel Generators: principles and standards

- Control system architecture
- Group discussion and peer review

Day 2 Methods and tools in practice

- Field devices and loop checking
- IEC and IEEE standards

Day 3 Diagnosis and problem solving

- Troubleshooting with real fault records
- Measurement and reporting

Day 4 Quality, safety and documentation

- Power system fundamentals and studies
- Hands-on workshop on a workplace challenge

Day 5 Workshop, assessment and action plan

- Protection, earthing and safety
- 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)
11–15 Jan 2027	5-day classroom	London	English	4,750
8–12 Feb 2027	5-day classroom	Dubai	Arabic	4,750
20–24 Sep 2027	5-day online	Live online	English	2,950
1–12 Nov 2027	10-day classroom	Istanbul	English	8,950
17–28 Jan 2028	10-day online	Live online	Arabic	5,450
6–10 Feb 2028	5-day classroom	Riyadh	English	4,750
3–14 Sep 2028	10-day classroom	Cairo	English	8,950
16–20 Oct 2028	5-day classroom	London	English	4,750
12–16 Feb 2029	5-day online	Live online	English	2,950

Dates	Format	City	Language	Fee (USD)
7–18 May 2029	10-day classroom	London	English	8,950
16–20 Jul 2029	5-day classroom	Vienna	English	4,750
8–12 Oct 2029	5-day classroom	Abu Dhabi	Arabic	4,750
7–11 Jan 2030	5-day classroom	Abu Dhabi	Arabic	4,750
18–29 Aug 2030	10-day classroom	Cairo	English	8,950
18–22 Nov 2030	5-day classroom	London	English	4,750
16–27 Dec 2030	10-day online	Live online	Arabic	5,450

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