Garnet
Garnet Global Training Center

GGT-PG-105

Power Generation & Utilities

Generator Operation & Protection

تشغيل المولدات وحمايتها

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

Overview

Generator Operation & Protection turns established good practice into step-by-step methods that participants rehearse in exercises and then apply at work. Operation and maintenance of power plants, grids and utility services. 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 Generator Operation & Protection 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

Power plant engineers, operators, utility planners and grid specialists. Practitioners with one to five years of experience benefit most.

Key topics

- Thermodynamics and plant performance
- Boilers, turbines and generators
- Grid operation and dispatch
- Reliability and outage planning
- Emissions and environmental compliance
- Plant case studies

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 Generator Operation & Protection: principles and standards

- Boilers, turbines and generators
- Regional and international case studies

Day 2 Methods and tools in practice

- Grid operation and dispatch
- Reliability and outage planning

Day 3 Diagnosis and problem solving

- Emissions and environmental compliance
- Checklists and templates to take away

Day 4 Quality, safety and documentation

- Plant case studies
- Group discussion and peer review

Day 5 Workshop, assessment and action plan

- Thermodynamics and plant performance
- Measurement and reporting

10-day outline

Day 1 Generator Operation & Protection: principles and standards

- Boilers, turbines and generators
- Regional and international case studies

Day 2 Methods and tools in practice

- Grid operation and dispatch
- Reliability and outage planning

Day 3 Diagnosis and problem solving

- Emissions and environmental compliance
- Checklists and templates to take away

Day 4 Quality, safety and documentation

- Plant case studies
- Group discussion and peer review

Day 5 Workshop, assessment and action plan

- Thermodynamics and plant performance
- Measurement and reporting

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Hands-on workshop on a workplace challenge

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
- Common mistakes and how to avoid them

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)
15–19 Feb 2027	5-day online	Live online	Arabic	2,950
4–8 Apr 2027	5-day classroom	Cairo	Arabic	4,750
13–24 Sep 2027	10-day classroom	Barcelona	English	8,950
19–23 Dec 2027	5-day classroom	Riyadh	English	4,750
21 Feb – 3 Mar 2028	10-day online	Live online	Arabic	5,450
6–10 Mar 2028	5-day classroom	Dubai	Arabic	4,750
17–21 Jul 2028	5-day classroom	Istanbul	English	4,750
4–15 Dec 2028	10-day classroom	Paris	English	8,950
8–12 Jan 2029	5-day online	Live online	English	2,950

Dates	Format	City	Language	Fee (USD)
5–9 Feb 2029	5-day classroom	Barcelona	English	4,750
16–27 Apr 2029	10-day classroom	London	English	8,950
19–23 Nov 2029	5-day classroom	Vienna	English	4,750
7–18 Jan 2030	10-day online	Live online	Arabic	5,450
9–20 Jun 2030	10-day classroom	Manama	Arabic	8,950
5–9 Aug 2030	5-day classroom	Dubai	Arabic	4,750
15–19 Dec 2030	5-day classroom	Jeddah	English	4,750

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