Garnet
Garnet Global Training Center

GGT-PG-120

Power Generation & Utilities

Power Plant Chemistry

كيمياء محطات الكهرباء

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

Overview

Participants in Power Plant Chemistry practise the methods, tools and standards they need to perform reliably and solve problems on the job. Operation and maintenance of power plants, grids and utility services. 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 Plant Chemistry 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

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 Power Plant Chemistry: principles and standards
- Boilers, turbines and generators
- Measurement and reporting

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
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation
- Plant case studies
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan
- Thermodynamics and plant performance
- Regional and international case studies

10-day outline

Day 1 Power Plant Chemistry: principles and standards
- Boilers, turbines and generators
- Measurement and reporting

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
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation
- Plant case studies
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan
- Thermodynamics and plant performance
- Regional and international case studies

Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Checklists and templates to take away

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
- Group discussion and peer review

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 Mar 2027	5-day online	Live online	English	2,950
10–21 May 2027	10-day classroom	Dubai	English	8,950
4–8 Oct 2027	5-day classroom	Kuala Lumpur	English	4,750
6–10 Dec 2027	5-day classroom	Casablanca	English	4,750
14–25 Feb 2028	10-day online	Live online	English	5,450
14–18 May 2028	5-day classroom	Doha	English	4,750
19–23 Jun 2028	5-day classroom	London	English	4,750
5–16 Nov 2028	10-day classroom	Amman	English	8,950
15–19 Jan 2029	5-day online	Live online	English	2,950
18–22 Jun 2029	5-day classroom	Dubai	English	4,750

Dates	Format	City	Language	Fee (USD)
2–6 Jul 2029	5-day classroom	Istanbul	English	4,750
2–13 Sep 2029	10-day classroom	Amman	English	8,950
7–18 Apr 2030	10-day classroom	Kuwait City	Arabic	8,950
15–19 Jul 2030	5-day classroom	Singapore	English	4,750
2–6 Sep 2030	5-day classroom	Dubai	English	4,750
16–27 Dec 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/