Garnet
Garnet Global Training Center

GGT-PG-104

Power Generation & Utilities

Boiler Operation & Water Chemistry

تشغيل الغلايات وكيمياء المياه

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

Overview

Boiler Operation & Water Chemistry focuses on how the work is actually done: the methods, checks and decisions practitioners use every day, illustrated with real cases from the region. Operation and maintenance of power plants, grids and utility services. 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 Boiler Operation & Water Chemistry to real tasks.
- Share good practice with your team.
- 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.

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

WhatsApp: +971 56 674 7382

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 Boiler Operation & Water 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 Boiler Operation & Water 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)
15–19 Feb 2027	5-day classroom	Singapore	English	4,750
12–16 Jul 2027	5-day online	Live online	Arabic	2,950
1–5 Nov 2027	5-day classroom	Dubai	English	4,750
6–17 Dec 2027	10-day classroom	Amsterdam	English	8,950
18–29 Sep 2028	10-day online	Live online	Arabic	5,450
9–13 Oct 2028	5-day classroom	London	English	4,750
12–23 Nov 2028	10-day classroom	Jeddah	English	8,950
4–8 Dec 2028	5-day classroom	Paris	English	4,750
7–18 May 2029	10-day classroom	Paris	English	8,950

Dates	Format	City	Language	Fee (USD)
4–8 Jun 2029	5-day classroom	Kuala Lumpur	English	4,750
9–13 Jul 2029	5-day classroom	Dubai	Arabic	4,750
15–19 Oct 2029	5-day online	Live online	English	2,950
6–17 Jan 2030	10-day classroom	Riyadh	Arabic	8,950
6–10 May 2030	5-day classroom	Amsterdam	English	4,750
18–22 Nov 2030	5-day classroom	London	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/