Garnet
Garnet Global Training Center

GGT-CH-101

Chemical & Process Engineering

Process Plant Troubleshooting

تشخيص أعطال مصانع العمليات

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

Overview

Process Plant Troubleshooting focuses on how the work is actually done: the methods, checks and decisions practitioners use every day, illustrated with real cases from the region. Process design, control and optimisation for chemical, petrochemical and fertiliser plants. 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 Process Plant Troubleshooting 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

Process and chemical engineers, plant operators and technical service teams. Practitioners with one to five years of experience benefit most.

Key topics

- Mass and energy balances
- Unit operations
- Process control
- Simulation and optimisation
- Catalysts and reactions
- Troubleshooting

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 Process Plant Troubleshooting: principles and standards

- Simulation and optimisation
- Checklists and templates to take away

Day 2 Methods and tools in practice

- Catalysts and reactions
- Troubleshooting

Day 3 Diagnosis and problem solving

- Mass and energy balances
- Group discussion and peer review

Day 4 Quality, safety and documentation

- Unit operations
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- Process control
- Hands-on workshop on a workplace challenge

10-day outline

Day 1 Process Plant Troubleshooting: principles and standards

- Simulation and optimisation
- Checklists and templates to take away

Day 2 Methods and tools in practice

- Catalysts and reactions
- Troubleshooting

Day 3 Diagnosis and problem solving

- Mass and energy balances
- Group discussion and peer review

Day 4 Quality, safety and documentation

- Unit operations
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- Process control
- Hands-on workshop on a workplace challenge

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Common mistakes and how to avoid them

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
- Regional and international case studies

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	English	2,950
7–11 Mar 2027	5-day classroom	Doha	English	4,750
12–23 Apr 2027	10-day classroom	Kuala Lumpur	English	8,950
20–24 Sep 2027	5-day classroom	Casablanca	Arabic	4,750
20–24 Feb 2028	5-day classroom	Riyadh	Arabic	4,750
17–28 Apr 2028	10-day online	Live online	English	5,450
10–21 Jul 2028	10-day classroom	Kuala Lumpur	English	8,950
18–22 Sep 2028	5-day classroom	Dubai	English	4,750
18–29 Mar 2029	10-day classroom	Kuwait City	English	8,950

Dates	Format	City	Language	Fee (USD)
12–16 Aug 2029	5-day classroom	Riyadh	English	4,750
3–7 Sep 2029	5-day classroom	London	English	4,750
8–12 Oct 2029	5-day online	Live online	English	2,950
11–22 Feb 2030	10-day online	Live online	Arabic	5,450
7–18 Apr 2030	10-day classroom	Riyadh	Arabic	8,950
16–20 Sep 2030	5-day classroom	Casablanca	English	4,750
20–24 Oct 2030	5-day classroom	Cairo	Arabic	4,750

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