Garnet
Garnet Global Training Center

GGT-CH-118

Chemical & Process Engineering

Chemical Plant Start-up & Shutdown

بدء تشغيل وإيقاف المصانع الكيميائية

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

Overview

Chemical Plant Start-up & Shutdown 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. 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 Chemical Plant Start-up & Shutdown 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

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 Chemical Plant Start-up & Shutdown: principles and standards

- Simulation and optimisation
- Measurement and reporting

Day 2 Methods and tools in practice

- Catalysts and reactions
- Troubleshooting

Day 3 Diagnosis and problem solving

- Mass and energy balances
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

- Unit operations
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Process control
- Regional and international case studies

10-day outline

Day 1 Chemical Plant Start-up & Shutdown: principles and standards

- Simulation and optimisation
- Measurement and reporting

Day 2 Methods and tools in practice

- Catalysts and reactions
- Troubleshooting

Day 3 Diagnosis and problem solving

- Mass and energy balances
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

- Unit operations
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Process control
- 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)
4–8 Jan 2027	5-day classroom	Geneva	English	4,750
5–9 Apr 2027	5-day online	Live online	English	2,950
19–23 Jul 2027	5-day classroom	Abu Dhabi	Arabic	4,750
11–22 Oct 2027	10-day classroom	Dubai	English	8,950
12–16 Mar 2028	5-day classroom	Doha	Arabic	4,750
16–20 Apr 2028	5-day classroom	Jeddah	English	4,750
3–14 Jul 2028	10-day online	Live online	Arabic	5,450
2–13 Oct 2028	10-day classroom	Vienna	English	8,950
12–16 Mar 2029	5-day classroom	Geneva	English	4,750

Dates	Format	City	Language	Fee (USD)
2–6 Jul 2029	5-day online	Live online	Arabic	2,950
1–5 Oct 2029	5-day classroom	Barcelona	English	4,750
18–29 Nov 2029	10-day classroom	Kuwait City	English	8,950
4–8 Feb 2030	5-day classroom	Abu Dhabi	English	4,750
10–14 Mar 2030	5-day classroom	Doha	Arabic	4,750
13–24 May 2030	10-day classroom	London	English	8,950
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/