Garnet
Garnet Global Training Center

GGT-CH-130

Chemical & Process Engineering

Process Optimisation

تحسين العمليات

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

Overview

This program treats Process Optimisation as a managed system: policies, roles, resources, performance indicators and continual improvement. 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

- Set up and run Process Optimisation as a managed process with clear roles.
- Manage contractors, suppliers and internal customers.
- Plan resources, budgets and schedules realistically.
- Define KPIs and build simple dashboards for management.
- Control risk, quality and compliance in this area.

Who should attend

Process and chemical engineers, plant operators and technical service teams. It suits supervisors, section heads and specialists who manage, or are about to manage, this area.

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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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 Optimisation: the management framework

- Process control
- Measurement and reporting

Day 2 Planning, resources and budgets

- Simulation and optimisation
- Catalysts and reactions

Day 3 Performance measurement and control

- Troubleshooting
- Hands-on workshop on a workplace challenge

Day 4 Risk, compliance and improvement

- Mass and energy balances
- Common mistakes and how to avoid them

Day 5 Management case study and action plan

- Unit operations
- Regional and international case studies

10-day outline

Day 1 Process Optimisation: the management framework

- Process control
- Measurement and reporting

Day 2 Planning, resources and budgets

- Simulation and optimisation
- Catalysts and reactions

Day 3 Performance measurement and control

- Troubleshooting
- Hands-on workshop on a workplace challenge

Day 4 Risk, compliance and improvement

- Mass and energy balances
- Common mistakes and how to avoid them

Day 5 Management case study and action plan

- Unit operations
- 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 Feb 2027	5-day classroom	Barcelona	English	4,750
12–16 Jul 2027	5-day online	Live online	English	2,950
2–13 Aug 2027	10-day classroom	Dubai	English	8,950
7–11 Nov 2027	5-day classroom	Doha	English	4,750
16–20 Jan 2028	5-day classroom	Amman	English	4,750
21 Feb – 3 Mar 2028	10-day online	Live online	Arabic	5,450
3–14 Apr 2028	10-day classroom	Amsterdam	English	8,950
8–12 Oct 2028	5-day classroom	Riyadh	Arabic	4,750
7–11 May 2029	5-day classroom	Barcelona	English	4,750

Dates	Format	City	Language	Fee (USD)
5–9 Aug 2029	5-day classroom	Manama	English	4,750
17–21 Sep 2029	5-day online	Live online	Arabic	2,950
7–18 Oct 2029	10-day classroom	Riyadh	Arabic	8,950
11–22 Mar 2030	10-day online	Live online	Arabic	5,450
14–18 Apr 2030	5-day classroom	Riyadh	Arabic	4,750
17–28 Jun 2030	10-day classroom	Geneva	English	8,950
2–6 Sep 2030	5-day classroom	Dubai	Arabic	4,750

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