Garnet
Garnet Global Training Center

GGT-CH-113

Chemical & Process Engineering

Petrochemical Processes

عمليات البتروكيماويات

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

Overview

Petrochemical Processes turns established good practice into step-by-step methods that participants rehearse in exercises and then apply at work. 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 Petrochemical Processes 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

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 Petrochemical Processes: principles and standards

- Unit operations
- Common mistakes and how to avoid them

Day 2 Methods and tools in practice

- Process control
- Simulation and optimisation

Day 3 Diagnosis and problem solving

- Catalysts and reactions
- Regional and international case studies

Day 4 Quality, safety and documentation

- Troubleshooting
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan

- Mass and energy balances
- Group discussion and peer review

10-day outline

Day 1 Petrochemical Processes: principles and standards

- Unit operations
- Common mistakes and how to avoid them

Day 2 Methods and tools in practice

- Process control
- Simulation and optimisation

Day 3 Diagnosis and problem solving

- Catalysts and reactions
- Regional and international case studies

Day 4 Quality, safety and documentation

- Troubleshooting
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan

- Mass and energy balances
- Group discussion and peer review

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Measurement and reporting

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
- Hands-on workshop on a workplace challenge

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)
10–14 Jan 2027	5-day classroom	Riyadh	Arabic	4,750
5–9 Apr 2027	5-day classroom	Dubai	English	4,750
7–11 Jun 2027	5-day online	Live online	English	2,950
13–24 Dec 2027	10-day classroom	London	English	8,950
5–16 Mar 2028	10-day classroom	Riyadh	Arabic	8,950
5–9 Jun 2028	5-day classroom	Barcelona	English	4,750
6–10 Aug 2028	5-day classroom	Kuwait City	Arabic	4,750
11–22 Sep 2028	10-day online	Live online	Arabic	5,450
14–18 May 2029	5-day classroom	Istanbul	English	4,750

Dates	Format	City	Language	Fee (USD)
4–8 Jun 2029	5-day online	Live online	English	2,950
16–27 Sep 2029	10-day classroom	Manama	Arabic	8,950
18–22 Nov 2029	5-day classroom	Kuwait City	English	4,750
21 Jan – 1 Feb 2030	10-day classroom	Abu Dhabi	Arabic	8,950
17–21 Mar 2030	5-day classroom	Cairo	Arabic	4,750
8–12 Sep 2030	5-day classroom	Muscat	Arabic	4,750
2–13 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/