Garnet
Garnet Global Training Center

GGT-CH-104

Chemical & Process Engineering

Advanced Process Control

التحكم المتقدم في العمليات

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

Overview

Advanced Process Control deepens existing expertise with advanced methods, failure cases and the reasoning experts use when standard answers do not fit. 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

- Handle complex and non-routine cases in Advanced Process Control.
- Lead specialist projects from scope to close-out.
- Apply advanced techniques and specialist tools with confidence.
- Review and challenge the work of others.
- Analyse failures and turn lessons into better standards.

Who should attend

Process and chemical engineers, plant operators and technical service teams. Participants should already have solid working experience in the field.

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 Advanced principles of Advanced Process Control
- Process control
- Hands-on workshop on a workplace challenge

Day 2 Specialist techniques
- Simulation and optimisation
- Catalysts and reactions

Day 3 Complex cases and failure analysis
- Troubleshooting
- Common mistakes and how to avoid them

Day 4 Expert review and benchmarking
- Mass and energy balances
- Regional and international case studies

Day 5 Advanced workshop and assessment
- Unit operations
- Checklists and templates to take away

10-day outline

Day 1 Advanced principles of Advanced Process Control
- Process control
- Hands-on workshop on a workplace challenge

Day 2 Specialist techniques
- Simulation and optimisation
- Catalysts and reactions

Day 3 Complex cases and failure analysis
- Troubleshooting
- Common mistakes and how to avoid them

Day 4 Expert review and benchmarking
- Mass and energy balances
- Regional and international case studies

Day 5 Advanced workshop and assessment
- Unit operations
- Checklists and templates to take away

Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Group discussion and peer review

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
- Measurement and reporting

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)
7–11 Jun 2027	5-day classroom	Vienna	English	4,750
16–27 Aug 2027	10-day classroom	Singapore	English	8,950
13–17 Sep 2027	5-day classroom	Istanbul	English	4,750
15–19 Nov 2027	5-day online	Live online	English	2,950
14–25 Feb 2028	10-day online	Live online	English	5,450
21–25 May 2028	5-day classroom	Riyadh	English	4,750
11–15 Sep 2028	5-day classroom	Geneva	English	4,750
15–26 Oct 2028	10-day classroom	Manama	Arabic	8,950
5–9 Feb 2029	5-day online	Live online	Arabic	2,950
10–21 Sep 2029	10-day classroom	Dubai	English	8,950

Dates	Format	City	Language	Fee (USD)
8–12 Oct 2029	5-day classroom	Kuala Lumpur	English	4,750
2–6 Dec 2029	5-day classroom	Amman	English	4,750
3–14 Mar 2030	10-day classroom	Jeddah	Arabic	8,950
9–13 Jun 2030	5-day classroom	Cairo	English	4,750
21 Oct – 1 Nov 2030	10-day online	Live online	Arabic	5,450
4–8 Nov 2030	5-day classroom	Amsterdam	English	4,750

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