Garnet
Garnet Global Training Center

GGT-CH-102

Chemical & Process Engineering

Distillation Column Design & Operation

تصميم وتشغيل أعمدة التقطير

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

Overview

Participants in Distillation Column Design & Operation practise the methods, tools and standards they need to perform reliably and solve problems on the job. 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 Distillation Column Design & Operation to real tasks.
- Interpret data and results correctly and act on them.
- Follow safe, compliant and documented work practices.
- Avoid the mistakes that most often cause rework or failure.
- Share good practice with your team.

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 Distillation Column Design & Operation: principles and standards

- Simulation and optimisation
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice

- Catalysts and reactions
- Troubleshooting

Day 3 Diagnosis and problem solving

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

Day 4 Quality, safety and documentation

- Unit operations
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Process control
- Checklists and templates to take away

10-day outline

Day 1 Distillation Column Design & Operation: principles and standards

- Simulation and optimisation
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice

- Catalysts and reactions
- Troubleshooting

Day 3 Diagnosis and problem solving

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

Day 4 Quality, safety and documentation

- Unit operations
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Process control
- 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)
11–15 Jan 2027	5-day classroom	Istanbul	English	4,750
2–13 May 2027	10-day classroom	Manama	English	8,950
16–20 Aug 2027	5-day online	Live online	English	2,950
8–12 Nov 2027	5-day classroom	Vienna	English	4,750
13–17 Feb 2028	5-day classroom	Kuwait City	English	4,750
9–20 Apr 2028	10-day classroom	Cairo	Arabic	8,950
12–23 Jun 2028	10-day online	Live online	Arabic	5,450
17–21 Dec 2028	5-day classroom	Riyadh	Arabic	4,750
15–19 Jan 2029	5-day online	Live online	Arabic	2,950

Dates	Format	City	Language	Fee (USD)
4–15 Mar 2029	10-day classroom	Riyadh	English	8,950
3–7 Jun 2029	5-day classroom	Doha	English	4,750
13–17 Aug 2029	5-day classroom	Kuala Lumpur	English	4,750
7–11 Jan 2030	5-day classroom	Dubai	English	4,750
1–12 Apr 2030	10-day online	Live online	English	5,450
15–19 Sep 2030	5-day classroom	Manama	English	4,750
20–31 Oct 2030	10-day classroom	Jeddah	Arabic	8,950

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