Garnet
Garnet Global Training Center

GGT-CH-117

Chemical & Process Engineering **Rare specialisation**

Industrial Gases Production

إنتاج الغازات الصناعية

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

Overview

Participants in Industrial Gases Production 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. You can join a public session in one of 20 cities or live online, in English or Arabic, or bring the course in-house with examples from your own operations.

What you will be able to do

- Apply the methods and standards of Industrial Gases Production to real tasks.
- Share good practice with your team.
- Use the right tools, checks and calculations step by step.
- Diagnose common problems and identify root causes.
- Interpret data and results correctly and act on them.

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 Industrial Gases Production: principles and standards

- Simulation and optimisation
- Group discussion and peer review

Day 2 Methods and tools in practice

- Catalysts and reactions
- Troubleshooting

Day 3 Diagnosis and problem solving

- Mass and energy balances
- Measurement and reporting

Day 4 Quality, safety and documentation

- Unit operations
- Hands-on workshop on a workplace challenge

Day 5 Workshop, assessment and action plan

- Process control
- Common mistakes and how to avoid them

10-day outline

Day 1 Industrial Gases Production: principles and standards

- Simulation and optimisation
- Group discussion and peer review

Day 2 Methods and tools in practice

- Catalysts and reactions
- Troubleshooting

Day 3 Diagnosis and problem solving

- Mass and energy balances
- Measurement and reporting

Day 4 Quality, safety and documentation

- Unit operations
- Hands-on workshop on a workplace challenge

Day 5 Workshop, assessment and action plan

- Process control
- Common mistakes and how to avoid them

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Regional and international case studies

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
- Checklists and templates to take away

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	London	English	4,750
21 Mar – 1 Apr 2027	10-day classroom	Riyadh	English	8,950
7–11 Jun 2027	5-day classroom	Vienna	English	4,750
15–19 Nov 2027	5-day online	Live online	Arabic	2,950
10–21 Jan 2028	10-day classroom	Istanbul	English	8,950
19–23 Mar 2028	5-day classroom	Riyadh	English	4,750
17–21 Jul 2028	5-day classroom	Abu Dhabi	Arabic	4,750
21 Aug – 1 Sep 2028	10-day online	Live online	English	5,450
15–19 Apr 2029	5-day classroom	Doha	English	4,750

Dates	Format	City	Language	Fee (USD)
11–15 Jun 2029	5-day online	Live online	English	2,950
20–24 Aug 2029	5-day classroom	Dubai	Arabic	4,750
9–20 Dec 2029	10-day classroom	Riyadh	English	8,950
6–17 May 2030	10-day online	Live online	English	5,450
17–21 Jun 2030	5-day classroom	Barcelona	English	4,750
7–18 Oct 2030	10-day classroom	London	English	8,950
16–20 Dec 2030	5-day classroom	Dubai	Arabic	4,750

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