Garnet
Garnet Global Training Center

GGT-CH-131

Chemical & Process Engineering **Rare specialisation**

Ammonia & Urea Production

إنتاج الأمونيا واليوريا

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

Overview

Participants in Ammonia & Urea 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 Ammonia & Urea Production to real tasks.
- Diagnose common problems and identify root causes.
- 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.

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 Ammonia & Urea Production: principles and standards

- Catalysts and reactions
- Common mistakes and how to avoid them

Day 2 Methods and tools in practice

- Troubleshooting
- Mass and energy balances

Day 3 Diagnosis and problem solving

- Unit operations
- Regional and international case studies

Day 4 Quality, safety and documentation

- Process control
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan

- Simulation and optimisation
- Group discussion and peer review

10-day outline

Day 1 Ammonia & Urea Production: principles and standards

- Catalysts and reactions
- Common mistakes and how to avoid them

Day 2 Methods and tools in practice

- Troubleshooting
- Mass and energy balances

Day 3 Diagnosis and problem solving

- Unit operations
- Regional and international case studies

Day 4 Quality, safety and documentation

- Process control
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan

- Simulation and optimisation
- 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)
4–8 Apr 2027	5-day classroom	Cairo	Arabic	4,750
15–26 Aug 2027	10-day classroom	Doha	Arabic	8,950
4–8 Oct 2027	5-day online	Live online	Arabic	2,950
15–19 Nov 2027	5-day classroom	London	English	4,750
8–19 May 2028	10-day online	Live online	Arabic	5,450
18–22 Jun 2028	5-day classroom	Kuwait City	English	4,750
15–19 Oct 2028	5-day classroom	Muscat	English	4,750
4–15 Dec 2028	10-day classroom	London	English	8,950
14–18 Jan 2029	5-day classroom	Doha	English	4,750

Dates	Format	City	Language	Fee (USD)
19 Feb – 2 Mar 2029	10-day classroom	Vienna	English	8,950
9–13 Apr 2029	5-day classroom	Dubai	English	4,750
6–10 Aug 2029	5-day online	Live online	Arabic	2,950
13–24 May 2030	10-day classroom	Abu Dhabi	Arabic	8,950
2–6 Jun 2030	5-day classroom	Riyadh	English	4,750
16–27 Sep 2030	10-day online	Live online	English	5,450
6–10 Oct 2030	5-day classroom	Cairo	English	4,750

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