Garnet
Garnet Global Training Center

GGT-CH-127

Chemical & Process Engineering

Adsorption & Molecular Sieves

الامتزاز والمناخل الجزيئية

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

Overview

Participants in Adsorption & Molecular Sieves 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 Adsorption & Molecular Sieves 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 Adsorption & Molecular Sieves: principles and standards

- Unit operations
- Group discussion and peer review

Day 2 Methods and tools in practice

- Process control
- Simulation and optimisation

Day 3 Diagnosis and problem solving

- Catalysts and reactions
- Measurement and reporting

Day 4 Quality, safety and documentation

- Troubleshooting
- Hands-on workshop on a workplace challenge

Day 5 Workshop, assessment and action plan

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

10-day outline

Day 1 Adsorption & Molecular Sieves: principles and standards

- Unit operations
- Group discussion and peer review

Day 2 Methods and tools in practice

- Process control
- Simulation and optimisation

Day 3 Diagnosis and problem solving

- Catalysts and reactions
- Measurement and reporting

Day 4 Quality, safety and documentation

- Troubleshooting
- Hands-on workshop on a workplace challenge

Day 5 Workshop, assessment and action plan

- Mass and energy balances
- 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 online	Live online	English	2,950
14–25 Mar 2027	10-day classroom	Jeddah	Arabic	8,950
5–9 Apr 2027	5-day classroom	Paris	English	4,750
17–21 May 2027	5-day classroom	Dubai	Arabic	4,750
7–11 Feb 2028	5-day classroom	Istanbul	English	4,750
3–7 Apr 2028	5-day classroom	Kuala Lumpur	English	4,750
8–19 May 2028	10-day classroom	Dubai	Arabic	8,950
18–29 Dec 2028	10-day online	Live online	English	5,450
7–11 May 2029	5-day classroom	Abu Dhabi	English	4,750

Dates	Format	City	Language	Fee (USD)
8–19 Oct 2029	10-day classroom	Vienna	English	8,950
5–9 Nov 2029	5-day classroom	Singapore	English	4,750
10–14 Dec 2029	5-day online	Live online	Arabic	2,950
4–8 Feb 2030	5-day classroom	Dubai	English	4,750
21–25 Apr 2030	5-day classroom	Riyadh	Arabic	4,750
6–17 May 2030	10-day online	Live online	English	5,450
15–26 Sep 2030	10-day classroom	Doha	English	8,950

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