Garnet
Garnet Global Training Center

GGT-CH-121

Chemical & Process Engineering

Pumps & Compressors for Process Engineers

المضخات والضواغط لمهندسي العمليات

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

Overview

Participants in Pumps & Compressors for Process Engineers 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 Pumps & Compressors for Process Engineers to real tasks.
- Follow safe, compliant and documented work practices.
- Avoid the mistakes that most often cause rework or failure.
- Share good practice with your team.
- Use the right tools, checks and calculations step by step.

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

WhatsApp: +971 56 674 7382

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 Pumps & Compressors for Process Engineers: principles and standards

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

Day 2 Methods and tools in practice

- Process control
- Simulation and optimisation

Day 3 Diagnosis and problem solving

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

Day 4 Quality, safety and documentation

- Troubleshooting
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Mass and energy balances
- Checklists and templates to take away

10-day outline

Day 1 Pumps & Compressors for Process Engineers: principles and standards

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

Day 2 Methods and tools in practice

- Process control
- Simulation and optimisation

Day 3 Diagnosis and problem solving

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

Day 4 Quality, safety and documentation

- Troubleshooting
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Mass and energy balances
- 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)
15–19 Feb 2027	5-day classroom	Kuala Lumpur	English	4,750
11–15 Jul 2027	5-day classroom	Cairo	Arabic	4,750
20 Sep – 1 Oct 2027	10-day classroom	Dubai	Arabic	8,950
1–5 Nov 2027	5-day online	Live online	English	2,950
3–7 Jan 2028	5-day classroom	London	English	4,750
2–13 Apr 2028	10-day classroom	Doha	Arabic	8,950
3–14 Jul 2028	10-day online	Live online	English	5,450
4–8 Sep 2028	5-day classroom	Dubai	English	4,750
16–27 Apr 2029	10-day classroom	Abu Dhabi	Arabic	8,950

Dates	Format	City	Language	Fee (USD)
7–11 May 2029	5-day classroom	Geneva	English	4,750
11–15 Jun 2029	5-day online	Live online	English	2,950
9–13 Dec 2029	5-day classroom	Riyadh	English	4,750
18 Feb – 1 Mar 2030	10-day online	Live online	Arabic	5,450
7–18 Apr 2030	10-day classroom	Amman	Arabic	8,950
13–17 May 2030	5-day classroom	Abu Dhabi	Arabic	4,750
12–16 Aug 2030	5-day classroom	London	English	4,750

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