Garnet
Garnet Global Training Center

GGT-CH-114

Chemical & Process Engineering

Heat Transfer Equipment Operation

تشغيل معدات انتقال الحرارة

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

Overview

Heat Transfer Equipment Operation turns established good practice into step-by-step methods that participants rehearse in exercises and then apply at work. Process design, control and optimisation for chemical, petrochemical and fertiliser plants. It runs as a 5-day or 10-day program in English or Arabic, in classrooms in Dubai, Riyadh, Cairo, London, Istanbul and other cities, or live online, and can be delivered in-house.

What you will be able to do

- Apply the methods and standards of Heat Transfer Equipment Operation 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 Heat Transfer Equipment Operation: principles and standards

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

Day 2 Methods and tools in practice

- Unit operations
- Process control

Day 3 Diagnosis and problem solving

- Simulation and optimisation
- Regional and international case studies

Day 4 Quality, safety and documentation

- Catalysts and reactions
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan

- Troubleshooting
- Group discussion and peer review

10-day outline

Day 1 Heat Transfer Equipment Operation: principles and standards

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

Day 2 Methods and tools in practice

- Unit operations
- Process control

Day 3 Diagnosis and problem solving

- Simulation and optimisation
- Regional and international case studies

Day 4 Quality, safety and documentation

- Catalysts and reactions
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan

- Troubleshooting
- 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)
8–12 Feb 2027	5-day online	Live online	English	2,950
2–6 May 2027	5-day classroom	Muscat	English	4,750
12–16 Jul 2027	5-day classroom	Kuala Lumpur	English	4,750
2–13 Aug 2027	10-day classroom	Singapore	English	8,950
21–25 Feb 2028	5-day classroom	Vienna	English	4,750
2–13 Jul 2028	10-day classroom	Cairo	Arabic	8,950
18–29 Sep 2028	10-day online	Live online	Arabic	5,450
6–10 Nov 2028	5-day classroom	London	English	4,750
11–22 Feb 2029	10-day classroom	Riyadh	English	8,950

Dates	Format	City	Language	Fee (USD)
7–11 May 2029	5-day online	Live online	English	2,950
8–12 Jul 2029	5-day classroom	Jeddah	English	4,750
12–16 Nov 2029	5-day classroom	London	English	4,750
15–26 Apr 2030	10-day online	Live online	English	5,450
7–11 Jul 2030	5-day classroom	Kuwait City	Arabic	4,750
9–13 Sep 2030	5-day classroom	Dubai	Arabic	4,750
18–29 Nov 2030	10-day classroom	Istanbul	English	8,950

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