Garnet
Garnet Global Training Center

GGT-MM-106

Mechanical, Maintenance & Reliability

Heat Exchangers Design & Maintenance

تصميم وصيانة المبادلات الحرارية

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

Overview

Heat Exchangers Design & Maintenance turns established good practice into step-by-step methods that participants rehearse in exercises and then apply at work. Keep equipment running longer, fail less and plan maintenance on evidence instead of habit. 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 Exchangers Design & Maintenance to real tasks.
- 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.
- Share good practice with your team.

Who should attend

Mechanical and maintenance engineers, reliability specialists, planners and workshop supervisors. Practitioners with one to five years of experience benefit most.

Key topics

- Failure modes and degradation mechanisms
- Condition monitoring techniques
- Maintenance strategy and planning
- Spare parts and work order discipline
- Reliability metrics: MTBF, MTTR, OEE
- CMMS data and continuous improvement

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 Exchangers Design & Maintenance: principles and standards

- Reliability metrics: MTBF, MTTR, OEE
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice

- CMMS data and continuous improvement
- Failure modes and degradation mechanisms

Day 3 Diagnosis and problem solving

- Condition monitoring techniques
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation

- Maintenance strategy and planning
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Spare parts and work order discipline
- Checklists and templates to take away

10-day outline

Day 1 Heat Exchangers Design & Maintenance: principles and standards

- Reliability metrics: MTBF, MTTR, OEE
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice

- CMMS data and continuous improvement
- Failure modes and degradation mechanisms

Day 3 Diagnosis and problem solving

- Condition monitoring techniques
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation

- Maintenance strategy and planning
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Spare parts and work order discipline
- 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)
1–5 Feb 2027	5-day online	Live online	Arabic	2,950
13–24 Jun 2027	10-day classroom	Cairo	Arabic	8,950
15–19 Nov 2027	5-day classroom	Dubai	English	4,750
6–10 Dec 2027	5-day classroom	Paris	English	4,750
7–11 Feb 2028	5-day classroom	Kuala Lumpur	English	4,750
20–24 Mar 2028	5-day classroom	London	English	4,750
18–29 Jun 2028	10-day classroom	Kuwait City	English	8,950
9–20 Oct 2028	10-day online	Live online	Arabic	5,450
8–12 Jan 2029	5-day classroom	Singapore	English	4,750

Dates	Format	City	Language	Fee (USD)
7–11 May 2029	5-day classroom	Casablanca	Arabic	4,750
10–14 Sep 2029	5-day online	Live online	Arabic	2,950
17–28 Dec 2029	10-day classroom	Kuala Lumpur	English	8,950
4–15 Feb 2030	10-day classroom	Abu Dhabi	Arabic	8,950
11–15 Mar 2030	5-day classroom	London	English	4,750
15–19 Jul 2030	5-day classroom	Dubai	Arabic	4,750
16–27 Dec 2030	10-day online	Live online	Arabic	5,450

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