Elevora
Global Training

COURSE BROCHURE

Heat Exchangers Design, Operation and Maintenance

Mechanical & Rotating Equipment

Code	Duration	Formats	Language	Certificate
ME-103	**5 or 10 days**	**Classroom, live online, in-house, blended**	**English or Arabic**	**Certificate of completion**

A practical mechanical and rotating equipment course covering heat transfer fundamentals, TEMA types and design and performance monitoring and fouling. Run as a 5-day core or 10-day extended programme, in 16 cities, live online or in-house, and fully customisable for your team.

About this course

Heat Exchangers Design, Operation and Maintenance gives delegates a structured, practical understanding of heat transfer fundamentals and TEMA types and design, then builds the skills to apply performance monitoring and fouling, inspection and cleaning and repair and retubing in real work. Sessions are led by practitioners with at least 15 years in the field.

What you will learn

- Heat transfer fundamentals
- TEMA types and design
- Performance monitoring and fouling
- Inspection and cleaning
- Repair and retubing

Who should attend

Mechanical engineers, maintenance supervisors, technicians, inspectors and reliability staff.

5-day course outline

Day 1	**Heat transfer fundamentals**	Concepts, standards and terminology, with a diagnostic exercise to baseline the group.
Day 2	**TEMA types and design**	Methods and tools explained step by step, with worked examples from real operations.
Day 3	**Performance monitoring and fouling**	Hands-on practice in small groups using realistic data, cases and templates.
Day 4	**Inspection and cleaning**	Case studies of successes and failures, and how to apply the lessons in your organisation.
Day 5	**Repair and retubing**	Integration exercise, final knowledge check and a personal action plan.

10-day extended programme

Includes the full 5-day outline, plus a second week of applied work:

Day 6	**Applied workshop: Heat transfer fundamentals** — Deeper practice with your own data or site examples.
Day 7	**Applied workshop: TEMA types and design and performance monitoring and fouling** — Group exercises that combine methods from week one.
Day 8	**Field case study: Inspection and cleaning** — A detailed industry case worked through from start to finish.
Day 9	**Advanced practice: Repair and retubing** — Tools, templates and checklists to take back to work.
Day 10	**Assessed project and presentation** — Each delegate presents an improvement plan and completes the final assessment.

Upcoming classroom dates

More dates, cities and live online sessions on request.

Dates	City	Length	Fee per delegate
8 Nov 2026 to 19 Nov 2026	Cairo	10 days	**$4,450**
7 Dec 2026 to 11 Dec 2026	Dubai	5 days	**$2,450**
4 Jan 2027 to 8 Jan 2027	Istanbul	5 days	**$2,450**
15 Feb 2027 to 19 Feb 2027	Amsterdam	5 days	**$3,450**
15 Mar 2027 to 19 Mar 2027	Kuala Lumpur	5 days	**$2,450**

Fees per delegate (2026 to 2027)

Format	5 days	10 days
Classroom: Dubai, Istanbul, Cairo, Kuala Lumpur	**$2,450**	**$4,450**
Classroom: London, Europe, Singapore	**$3,450**	**$6,250**
Live online	**$1,450**	**$2,650**
In-house, group of up to 15	**From $12,900**	**From $23,500**

Classroom fees include tuition, materials, lunch and refreshments, and a certificate. 10% group saving for 3 delegates, 15% for 5 or more.

Tailored to your team

Change the level, language, length (1 to 20 days) and format, add topics from other courses or entirely new topics, and include your own case studies, site visits or exam preparation. Build it online for an instant indicative fee.

Register or request an in-house proposal

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