Garnet
Garnet Global Training Center

GGT-WT-119

Water, Wastewater & Desalination

Water Treatment Fundamentals

أساسيات معالجة المياه

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

Overview

Water Treatment Fundamentals is designed for people who are new to the subject, or who need a structured refresher before taking on more responsibility. Treatment, networks and desalination programs for water utilities and industry. 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

- Explain the key concepts, terms and standards of Water Treatment Fundamentals.
- Know when to escalate and who to involve.
- Communicate confidently with specialists and colleagues.
- Plan the next steps in your own learning.
- Recognise the main hazards, errors and misconceptions newcomers face.

Who should attend

Water utility engineers, plant operators, network and environmental specialists. No prior experience is required; it also suits new hires, graduates and staff moving into this field.

Key topics

- Water quality and standards
- Treatment processes
- Networks, pumping and losses
- Plant operation and chemicals
- Energy use in water systems
- Regulation and reporting

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 Introduction to Water Treatment Fundamentals
- Regulation and reporting
- Regional and international case studies

Day 2 Core concepts and terminology
- Water quality and standards
- Treatment processes

Day 3 Basic methods and tools
- Networks, pumping and losses
- Checklists and templates to take away

Day 4 Working safely and correctly
- Plant operation and chemicals
- Group discussion and peer review

Day 5 Practical exercises and review
- Energy use in water systems
- Measurement and reporting

10-day outline

Day 1 Introduction to Water Treatment Fundamentals
- Regulation and reporting
- Regional and international case studies

Day 2 Core concepts and terminology
- Water quality and standards
- Treatment processes

Day 3 Basic methods and tools
- Networks, pumping and losses
- Checklists and templates to take away

Day 4 Working safely and correctly
- Plant operation and chemicals
- Group discussion and peer review

Day 5 Practical exercises and review
- Energy use in water systems
- Measurement and reporting

Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Hands-on workshop on a workplace challenge

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
- Common mistakes and how to avoid them

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)
10–14 Jan 2027	5-day classroom	Riyadh	English	4,750
5–9 Apr 2027	5-day online	Live online	Arabic	2,950
14–25 Jun 2027	10-day classroom	Vienna	English	8,950
3–7 Oct 2027	5-day classroom	Doha	Arabic	4,750
14–25 May 2028	10-day classroom	Muscat	English	8,950
17–28 Jul 2028	10-day online	Live online	Arabic	5,450
2–6 Oct 2028	5-day classroom	Abu Dhabi	English	4,750
6–10 Nov 2028	5-day classroom	Vienna	English	4,750
5–9 Feb 2029	5-day online	Live online	English	2,950
9–20 Apr 2029	10-day classroom	Abu Dhabi	Arabic	8,950

Dates	Format	City	Language	Fee (USD)
15–19 Jul 2029	5-day classroom	Kuwait City	Arabic	4,750
10–14 Dec 2029	5-day classroom	Dubai	English	4,750
11–22 Mar 2030	10-day online	Live online	English	5,450
3–14 Jun 2030	10-day classroom	Geneva	English	8,950
8–12 Jul 2030	5-day classroom	Istanbul	English	4,750
11–15 Nov 2030	5-day classroom	Dubai	Arabic	4,750

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