Garnet
Garnet Global Training Center

GGT-WT-126

Water, Wastewater & Desalination

Hydraulic Modelling of Water Networks

النمذجة الهيدروليكية لشبكات المياه

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

Overview

Hydraulic Modelling of Water Networks turns established good practice into step-by-step methods that participants rehearse in exercises and then apply at work. Treatment, networks and desalination programs for water utilities and industry. 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 Hydraulic Modelling of Water Networks to real tasks.
- 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.
- Follow safe, compliant and documented work practices.

Who should attend

Water utility engineers, plant operators, network and environmental specialists. Practitioners with one to five years of experience benefit most.

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 Hydraulic Modelling of Water Networks: principles and standards

- Energy use in water systems
- Checklists and templates to take away

Day 2 Methods and tools in practice

- Regulation and reporting
- Water quality and standards

Day 3 Diagnosis and problem solving

- Treatment processes
- Group discussion and peer review

Day 4 Quality, safety and documentation

- Networks, pumping and losses
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- Plant operation and chemicals
- Hands-on workshop on a workplace challenge

10-day outline

Day 1 Hydraulic Modelling of Water Networks: principles and standards

- Energy use in water systems
- Checklists and templates to take away

Day 2 Methods and tools in practice

- Regulation and reporting
- Water quality and standards

Day 3 Diagnosis and problem solving

- Treatment processes
- Group discussion and peer review

Day 4 Quality, safety and documentation

- Networks, pumping and losses
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- Plant operation and chemicals
- Hands-on workshop on a workplace challenge

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Common mistakes and how to avoid them

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
- Regional and international case studies

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
12–16 Sep 2027	5-day classroom	Riyadh	Arabic	4,750
11–15 Oct 2027	5-day classroom	Dubai	English	4,750
12–23 Dec 2027	10-day classroom	Doha	Arabic	8,950
21–25 Feb 2028	5-day classroom	Abu Dhabi	Arabic	4,750
5–9 Mar 2028	5-day classroom	Amman	Arabic	4,750
10–21 Jul 2028	10-day classroom	Amsterdam	English	8,950
18–29 Dec 2028	10-day online	Live online	Arabic	5,450
15–19 Jan 2029	5-day classroom	Abu Dhabi	Arabic	4,750

Dates	Format	City	Language	Fee (USD)
1–12 Jul 2029	10-day classroom	Riyadh	Arabic	8,950
10–14 Sep 2029	5-day online	Live online	Arabic	2,950
5–9 Nov 2029	5-day classroom	Geneva	English	4,750
13–17 Jan 2030	5-day classroom	Riyadh	English	4,750
18 Feb – 1 Mar 2030	10-day online	Live online	Arabic	5,450
20–31 May 2030	10-day classroom	Abu Dhabi	English	8,950
4–8 Nov 2030	5-day classroom	Amsterdam	English	4,750

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