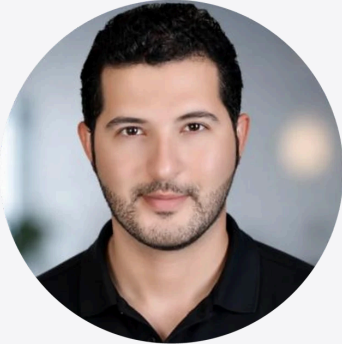




Water and Wastewater Training Catalogue

Training and paid consultations for teams across the Gulf Cooperation Council region, built on 10 years of plant experience.

Ahmed Khaled Abdelkhalek

Senior Water Engineer, Planning and Scheduling (Operations and Maintenance)

10 years of experience in water, wastewater and desalination

Certified Maintenance and Reliability Professional (CMRP)

Master of Science research in Water Resources, United Arab Emirates University

Trainer since 2016

Formats

Online

Live sessions for teams anywhere, with real plant examples.

In person

At your site, a training centre or a conference venue in the Gulf Cooperation Council region.

Customised

A programme shaped around your plant, your technologies and your recurring problems.

Topics you can choose from

Select any combination. The list is refined together during a short scoping call.

Intake, pretreatment and ultrafiltration

- Seawater intake and pretreatment
- Ultrafiltration as reverse osmosis pretreatment
- Media and cartridge filtration
- Feed water quality and fouling indices

Reverse osmosis and desalination

- Seawater and brackish water reverse osmosis fundamentals
- Reverse osmosis performance monitoring and troubleshooting
- Membrane fouling and scaling control
- Chemical cleaning strategy
- Micro- and nano-bubbles for membrane performance
- Energy use in desalination

Wastewater and reuse

- Wastewater treatment fundamentals
- Membrane bioreactor (MBR) operation
- Sludge treatment and dewatering
- Treated sewage effluent (TSE) polishing and water reuse
- Odor control and plant performance

Reliability and operations and maintenance strategy

- Preventive maintenance planning
- Asset management for water utilities
- Pumps, blowers and compressors reliability
- Key performance indicators and reporting
- Maintenance planning and scheduling

Efficiency and sustainability

- Non-revenue water and water efficiency
- Solar-powered water treatment
- Circular water economy and brine valorization
- Produced water reuse

Certification and AI

- Certified Maintenance and Reliability Professional (CMRP) exam preparation
- AI fundamentals and applications in water
- Cooling water systems
- SAP Plant Maintenance for maintenance planning

Sample programmes

Certified Maintenance and Reliability Professional (CMRP) exam preparation

1. Business and management
2. Manufacturing process reliability
3. Equipment reliability
4. Organization and leadership
5. Work management
6. Practice questions and exam technique

Online or in person. Length is set when we scope it.

Reverse osmosis performance and troubleshooting

1. Reading the plant: normalised flow, salt passage and differential pressure
2. Telling fouling from scaling and membrane damage
3. Pretreatment and its effect on the membranes
4. Cleaning strategy and when to clean
5. Energy and recovery trade-offs
6. A case-based troubleshooting exercise

Online or in person. Length is set when we scope it.

Maintenance planning and scheduling for water utilities

1. Asset criticality and why it comes first
2. Building the preventive maintenance strategy
3. SAP Plant Maintenance structure: plans, task lists and measuring points
4. Scheduling and backlog control
5. Performance indicators that show real compliance
6. Case study: why repeat failures survive compliant plans

Online or in person. Length is set when we scope it.

How it works

1. Choose

Pick topics, format and group size, or book a scoping call.

2. Scope

A short call to understand your plant, team and problems.

3. Proposal

A clear programme with the agenda and the fee.

4. Delivery

Online or on site, built on real plant examples.

Get in touch

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