



Consulting and Training | Reach New Heights

Course Name

Troubleshooting, Operation and Maintenance of Wastewater

Sector Name

Mechanical Engineering

Document Type

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Troubleshooting, Operation and Maintenance of Wastewater

Course Introduction

This training program is designed to lead participants to gain the required knowledge of how to operate and maintain wastewater treatment plants and associated instruments, by helping them understand and apply Wastewater Primary and Secondary Treatment techniques, Identify Types of Models Used in the Treatment, Master using Operate wastewater treatment plants techniques, Understand and apply safety regulations and measurements, Identify water Quality control techniques.

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The training program is implemented by combining academic knowledge and practical practice **(20% theoretical / 80%**

practical activities).

This training program focuses on a variety of exercises, case studies, and individual and group presentations, along with a set of integrated training tools, such as Videos, case studies, Gamification, role-playing, simulation, and on-the-job training.

In addition, and following the agreement with the Training and Development Department in Dubai Municipality, we ensure to select a third party as a "supporter" for the program and coordinate with it in an integrated manner to involve it, to enable the participants to Possess an integrated practical experience, which lead them to apply the knowledge and skills they have gained efficiently in the work environment. A pre-and post-assessment is designed to measure the participants' knowledge level and determine the development that has occurred in their skills in the training program field.

Plus, A detailed report is submitted to each participant and the training department in your organization on the results of the participant's performance and the return on training.

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Target Audience

- ✓ Plant Operators & Technicians – Handling daily operations and maintenance.
- ✓ Engineers & Consultants – Designing and optimizing wastewater systems.
- ✓ Supervisors & Managers – Overseeing operations and compliance.
- ✓ Regulatory Officers – Ensuring adherence to environmental laws.
- ✓ Facility Operators & Procurement Professionals – Managing industrial/commercial wastewater systems and sourcing equipment.

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Learning Objectives

- ✓ Understand the Fundamentals of Water and Wastewater Treatment.
- ✓ Understand Wastewater Primary and Secondary Treatment techniques.
- ✓ Identify Types of Models Used in the Treatment.
- ✓ Master the operation of wastewater treatment plant techniques.
- ✓ Master Handling and disposal of process wastes.
- ✓ Understand The Specifications Required in the Treated Effluent to be used in Agriculture.
- ✓ Identify how to maintain Wastewater Treatment Plants and associated instruments.
- ✓ Understand and apply safety regulations and measurements.
- ✓ Identify water Quality control techniques.

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Course Outline

✓ **01 DAY ONE**

Introduction to Process Management of Wastewater

- ✓ Fundamentals of Water and Wastewater Treatment.
- ✓ Wastewater Primary Treatment.
- ✓ Secondary Treatment.
- ✓ Types of Models Used in the Treatment.
- ✓ Specifications of the Resulting Treated Effluent.

Treatment Techniques

- ✓ Coagulants.
- ✓ Membranes.
- ✓ Membrane Bioreactor.
- ✓ Used in Agriculture for Irrigating the Plants.
- ✓ Remove Residues.

Operation Techniques

- ✓ Operate wastewater treatment plant techniques.
- ✓ The Operation of the MBR and Dewatering Systems.
- ✓ MBR problems.
- ✓ MBR occurs during its use, and the way to overcome.

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Course Outline

✓ 02 DAY TWO

Maintenance and Cleaning of the Treatment Plant

- ✓ Corrective maintenance requirements.
- ✓ Preventive maintenance requirements.
- ✓ Washing the filters.
- ✓ Periodic cleaning program.
- ✓ Handling and disposal of process wastes.
- ✓ Valves (Pressure reduce valve, air release valve.
- ✓ Pumps and connections.
- ✓ Control system.
- ✓ Keep and evaluate operating reports.
- ✓ Working and damage reports.
- ✓ Filing system.

Instrument of the Wastewater plant

- ✓ Wastewater Treatment Laboratory Instruments.
- ✓ Wastewater Treatment Laboratory Tests.
- ✓ Follow up on the Effective Operation of the use of MBR in Wastewater Treatment.

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✓ **03 DAY THREE**

Operation Advanced Techniques

- ✓ The Specifications Required in the Treated Effluent to be used in Agriculture.
- ✓ The Comparison between the Treatment of the Wastewater with MBR and CAS.
- ✓ The Advanced Techniques to Treat the TE.
- ✓ Raise Quality to be Re-used in Drinking Water or Industry- RO Technique – Ion Exchange.
- ✓ Maintenance of the Wastewater Treatment Plants and the MBR Systems.

Safety Regulations & Measurements

- ✓ Personnel Safety equipment.
- ✓ Safety guidelines for the chlorine accidents.
- ✓ Dangers resulting from the liberation of chlorine gas.
- ✓ Dangers resulting from:
 - ✓ Electricity Faults
 - ✓ Mechanical Faults
 - ✓ Chemical Faults

Water Quality Control

- ✓ Laboratory Analysis.
- ✓ Estimating the Chemical Dosage at the Lab.

- ✓ Taste and Odor Control.
- ✓ Iron and Manganese Control.

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
March 14, 2027	March 16, 2027	3 days	3250.00 \$	KSA , Dammam
Aug. 24, 2026	Aug. 26, 2026	3 days	3950.00 \$	England , London
Dec. 7, 2026	Dec. 9, 2026	3 days	3250.00 \$	UAE , Dubai
April 13, 2026	April 15, 2026	3 days	3250.00 \$	UAE , Abu Dhabi

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