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Course Name

Advanced Water Treatment Technology

Sector Name

Oil, Gas and Chemical

Document Type

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Advanced Water Treatment Technology

Course Introduction

This training course concentrates on wastewater treatment and water treatment in municipal plants to address the quantity, complexity, and diversity of the developments in the wastewater treatment profession.

This course topics include an introduction to water technology, the process for treating wastewater with emphasis on past, present, and future technologies concerned with water treatment. The course also covers water quality characteristics, sampling, and laboratory analysis procedures from source to distribution. It will also help you develop the skills necessary to evaluate the technologies used in water treatment.

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Advanced Water Treatment Technology

Target Audience

- ✓ Process design
- ✓ Unit Operator
- ✓ Environmental
- ✓ Process safety engineer
- ✓ Gasoline blender engineer
- ✓ Lab supervisor
- ✓ Supply chain engineer
- ✓ Distillates analyst
- ✓ Models engineer
- ✓ Chemical Operator
- ✓ Chemical Plant Operator
- ✓ Chemical Process Technician
- ✓ Control Room Supervisor
- ✓ Gas Plant Process Operator
- ✓ Gas Production Operator
- ✓ Gas Terminal Operations and Storage
- ✓ Gathering Pipeline engineer
- ✓ Oil Terminal / Storage engineer
- ✓ Pipeline Maintenance / Equipment / Compliance / Repair
- ✓ Pipeline Testing / Technician / Supervisor / Safety
- ✓ Plant Equipment Operator

✓ Plant Operations Technician

✓ Plant Shutdown

✓ Plant Supervisor

✓ Power Distribution

✓ Power Plant Manager

✓ Process Supervisor

✓ Refinery Operations Technician / Manager

✓ Terminal Operator / Manager

✓ Utilities Operator

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Learning Objectives

This course aims to provide participants with a comprehensive understanding of industrial and wastewater treatment methods and techniques.

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Advanced Water Treatment Technology

Course Outline

✓ 01 Day One

Water Composition and Specifications

- ✓ Water resources
- ✓ Basic composition and properties
- ✓ Dissolved oxygen
- ✓ PH, hardness
- ✓ Suspended solids and colloids
- ✓ Metallic ions
- ✓ Organic matter
- ✓ Living organisms
- ✓ Chemical and biological oxygen demand

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Advanced Water Treatment Technology

Course Outline

✓ 02 Day Two

Physical Treatment Processes

- ✓ Sedimentation and flocculation
- ✓ Flotation
- ✓ Filtration
- ✓ Mechanical duration
- ✓ Centrifuge and sludge handling
- ✓ Adsorption ion exchange
- ✓ Membranes separation
- ✓ Case study (I)

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Advanced Water Treatment Technology

Course Outline

✓ 03 Day Three

Chemical Treatment

- ✓ Chemical direction
- ✓ Oxidation/reduction
- ✓ Neutralization
- ✓ Precipitin
- ✓ Incineration
- ✓ Sterilization
- ✓ Case study (II)

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Advanced Water Treatment Technology

Course Outline

✓ 04 Day Four

Biological Treatment

- ✓ Aerobic Towers
- ✓ Activated sludge
- ✓ Lagoons Anaerobic
- ✓ Bacteriological analysis
- ✓ Portable water specification
- ✓ Sampling, measurement, and analysis
- ✓ Analytical and sampling methods

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Advanced Water Treatment Technology

Course Outline

✓ 05 Day Five

Industrial Water Management

- ✓ Supply steams
- ✓ Cooling water system
- ✓ Waste streams
- ✓ Mass balance of water and contaminants
- ✓ Practical application

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 28, 2027	July 2, 2027	5 days	4250.00 $	UAE , Dubai
Dec. 7, 2026	Dec. 11, 2026	5 days	4250.00 $	UAE , Abu Dhabi
Jan. 11, 2027	Jan. 15, 2027	5 days	4250.00 $	UAE , Abu Dhabi
Aug. 23, 2027	Aug. 27, 2027	5 days	4950.00 $	Italy , Milan
Jan. 17, 2027	Jan. 21, 2027	5 days	4250.00 $	KSA , Riyadh

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