



*Training Course:
Water and Sewerage Management*

*23 - 27 May 2027
Dubai (UAE)*

Training Course: Water and Sewerage Management

Training Course code: EW234937 From: 23 - 27 May 2027 Venue: Dubai (UAE) - Training Course Fees: 5830 € Euro

Introduction

This Water and Sewerage Management course is designed to train operators in the practical aspects of operating and maintaining wastewater treatment plants, emphasizing safe practices and procedures. Information presented includes detailed descriptions of the equipment and advanced treatment processes used for odor control, pure oxygen-activated sludge treatment, solids removal from secondary effluents, residual solids management, enhanced biological control including nitrogen and phosphorus removal, and wastewater reclamation.

Operators also learn to operate and maintain treatment plant instrumentation equipment and systems. The residual solids management chapter contains information on sludge types, characteristics, and quantities; sludge thickening using gravity thickeners, dissolved air flotation units, centrifuges, and thermal conditioning as well as wet oxidation and elutriation; dewatering with pressure filtration plate and frame, belt, vacuum, centrifuges and drying beds; volume reduction using composting, mechanical drying, incineration, and lagoons; and disposal methods for dewatered or liquid stabilized sludge.

This course focuses on actual operating procedures and teaches operators to manage, analyze and solve operational problems.

Training Objectives

The objectives of the Water and Sewerage Management Training Program include but are not limited to the following:

- Wastewater and Sewerage Management
- Wastewater and Sewerage Treatment
- Odor Control
- Activated Sludge Pure Oxygen Plants and Operational Control Options
- Residual Solids Management
- Solids Removal from Secondary Effluents
- Phosphorus Removal
- Nitrogen Removal
- Enhanced Biological Nutrient Control
- Wastewater Reclamation and Reuse
- Instrumentation and Control Systems

Target Audience

This Water and Sewerage Management training course is suitable for a wide range of professionals in the water and wastewater treatment industry, but will greatly benefit:

- Project managers
- Professionals involved in the regulatory monitoring of water quality
- Engineers involved in the monitoring and maintenance of wastewater treatment systems in the Process Industries
- Process engineers and operators in Sewage Treatment Plants

Outlines

Day 1: Fundamentals of Wastewater and Sewerage Management

Introduction to Wastewater and Sewerage Management
Generation and Decomposition
Types of pollutants in wastewater
Wastewater collection, conveyance, and maintenance
Schematic layouts of wastewater treatment plants
Regulatory requirements and discharge prevention

Day 2: Preliminary and Primary Treatment

Preliminary Treatment systems screens, grit chambers, flow meters, shredders
Operation and maintenance of preliminary treatment units
Flow measurement and calibration
Sedimentation and clarification principles
Operation and maintenance of clarifiers
Safety in preliminary and primary treatment

Day 3: Secondary Treatment Processes

Activated Sludge Systems operation, control, troubleshooting, modifications
Fixed Film Processes operation, monitoring, troubleshooting
Sludge handling basics
Operational control and performance monitoring
Handling abnormal operating conditions

Day 4: Advanced Treatment and Laboratory Work

Disinfection methods chlorine, UV, ozone
Laboratory procedures and sampling techniques
Filtration systems and membrane technologies
Chemical treatment and dosing jar test, chemical feed systems
Odor control and troubleshooting

Day 5: Advanced Systems, Reuse, and Control

Nutrient removal Phosphorus and Nitrogen removal
Enhanced biological treatment systems Bardenpho, nutrient control
Residual solids management and sludge treatment
Wastewater reclamation and reuse
Instrumentation and control systems
Monitoring, optimization, and operational strategies

Registration form on the Training Course: Water and Sewerage Management

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