



## **Water & Sewerage Management**

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## **Water & Sewerage Management**

**5 days training course**

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**For detailed information on training course dates, please click the link:**

**[Water & Sewerage Management.](#)**



## Course Overview

This training course provides an in-depth understanding of wastewater and sewerage systems, focusing on the key principles, technologies, and regulatory requirements necessary for effective water management. Participants will gain comprehensive knowledge of treatment processes, from preliminary to advanced treatment, as well as strategies for handling and reusing wastewater. By the end of the program, attendees will be equipped with the skills to manage, maintain, and optimize water and sewerage systems efficiently while ensuring compliance with environmental regulations.

## Who Should Attend?

This course is designed for:

- Project managers
- Engineers monitoring and maintaining wastewater treatment systems
- Process engineers and operators in Sewage Treatment Plants (STPs)
- Professionals involved in regulatory monitoring of water quality
- Environmental managers working in wastewater and sewerage systems

## Objectives:

- Understand the key components and processes of wastewater and sewerage systems.
- Gain practical knowledge in operating and maintaining treatment processes.
- Learn about sludge management, disinfection, and nutrient removal techniques.
- Develop skills in wastewater reclamation and reuse.

## Course Outline:

### Day 1: Wastewater and Sewerage Management Overview

- **Introduction to Wastewater and Sewerage Systems**
  - Generation, decomposition, and collection
  - Wastewater treatment types: Domestic and industrial
  - Key pollutants and their impact on treatment
  - Regulatory framework and prohibitions on wastewater discharge
- **Selection of Appropriate Wastewater Treatment System**
  - Understanding treatment needs based on wastewater types
  - Choosing suitable treatment processes for diverse wastewater

### Day 2: Preliminary Treatment and Sludge Management

- **Preliminary Treatment Systems**
  - Flow meters, racks, screens, grit channels, and separators
  - Safe startup, operation, and shutdown of equipment
  - Importance of sedimentation and clarification in preliminary treatment
- **Sludge Treatment**
  - Methods for handling and disposing of sludge
  - Sludge dewatering and volume reduction techniques
  - Safe and effective handling of sludge and residuals

### Day 3: Secondary Treatment and Biological Processes

- **Activated Sludge Process**
  - Principles of activated sludge systems
  - Operating parameters and process monitoring
  - Maintenance of secondary treatment equipment
  - Identifying and correcting abnormal operation issues

- **Fixed Film Processes**

- Fixed film systems and their application in treatment
- Operating, maintaining, and troubleshooting fixed film units

#### **Day 4: Advanced Treatment and Reuse Techniques**

- **Disinfection and Filtration**

- Chlorine, UV, ozone disinfection techniques
- Filtration systems: Gravity, pressure filters, and membrane technologies

- **Phosphorus and Nitrogen Removal**

- Techniques for phosphorus and nitrogen removal
- Operating nitrification and denitrification processes
- Enhanced biological control for nutrient removal

- **Wastewater Reclamation and Reuse**

- Reclamation methods for treated wastewater
- Operational strategies for safe reuse of treated wastewater

#### **Day 5: Instrumentation, Control Systems, and Final Assessment**

- **Instrumentation and Control Systems**

- Overview of instrumentation in wastewater systems
- Safe operation of sensors, transducers, and control systems
- Troubleshooting instrumentation issues

- **Review and Practical Assessment**

- Recap of key concepts covered throughout the training
- Practical exercises and hands-on evaluation of systems and operations
- Final Q&A and wrap-up session



## DOCUMENTATION

The **MTC team** has meticulously prepared **high-quality training materials** for distribution to all delegates.

## CERTIFICATES

An **accredited Certificate of Completion** will be awarded to participants who successfully attend and complete the program.

## SCHEDULE

Course sessions are scheduled as follows:

- **Morning Session:** 09:00 AM – 1:00 PM
- **Afternoon Session:** 01:00 PM – 05:00 PM

## REGISTRATION & PAYMENT

To register, please complete the **registration form** available on the course page and submit it with your **preferred payment method**. Alternatively, you can contact us via **email or WhatsApp** for assistance.

## TRAVEL & TRANSPORT

We ensure a **seamless travel experience** by providing **airport-hotel-airport** transfers for all participants.