



*Training Course:
Operators of the Wastewater Treatment Plants*

*27 - 31 December 2026
Cairo (Egypt)*

Training Course: Operators of the Wastewater Treatment Plants

Training Course code: EN9461 From: 27 - 31 December 2026 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Wastewater treatment plants WWTPs play a vital role in protecting public health and the environment by treating and safely discharging wastewater. Skilled operators are essential to ensure efficient plant performance, regulatory compliance, and sustainable operations.

This program, designed by Global Horizon Training Center, equips participants with the practical knowledge and operational skills required to manage, monitor, and optimize wastewater treatment plant processes effectively.

Course Objectives

By the end of this program, participants will be able to:

- Understand wastewater treatment processes and plant operations
- Operate and monitor treatment units effectively
- Control biological, chemical, and physical treatment processes
- Perform routine inspections and maintenance
- Analyze water quality parameters and laboratory results
- Troubleshoot operational issues
- Ensure compliance with environmental regulations
- Improve plant efficiency and performance

Target Audience

This program is designed for:

- Wastewater Treatment Plant Operators
- Environmental and Process Engineers
- Maintenance and Operations Personnel
- Laboratory and Water Quality Technicians
- Municipal and Industrial Water Professionals
- Supervisors in water and wastewater facilities

Outline

Day 1: Fundamentals of Wastewater Treatment

- Overview of wastewater sources and characteristics
- Treatment objectives and standards
- Physical, chemical, and biological processes
- WWTP layout and components
- Safety practices

Day 2: Primary and Secondary Treatment Processes

- Screening and sedimentation
- Activated sludge process
- Biological treatment systems
- Aeration and sludge handling
- Process monitoring

Day 3: Advanced Treatment and Disinfection

- Tertiary treatment methods
- Filtration and nutrient removal
- Disinfection processes chlorination, UV
- Sludge treatment and disposal
- Environmental considerations

Day 4: Operation, Monitoring, and Maintenance

- Process control and optimization
- Equipment operation and maintenance
- Sampling and laboratory analysis
- Troubleshooting operational problems
- Documentation and reporting

Day 5: Compliance, Optimization, and Case Studies

- Regulatory requirements and compliance
- Performance monitoring and KPIs
- Energy efficiency and cost optimization
- Best practices in WWTP operation
- Case studies and real-world applications

Registration form on the Training Course: Operators of the Wastewater Treatment Plants

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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