



Sewage Treatment Systems Operation & Maintenance Training

01 - 12 Feb 2027
Paris (France)



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Ref.: 15992_1001707 **Date:** 01 - 12 Feb 2027 **Location:** Paris (France) **Fees:** 10500 **Euro**

Introduction to Sewage Treatment Systems Operation & Maintenance Training:

The Sewage Treatment Systems Operation and Maintenance training course is designed to equip participants with essential skills for effectively managing and maintaining sewage treatment facilities. Proper sewage treatment is critical to environmental protection, public health, and regulatory compliance. This training provides a comprehensive understanding of sewage treatment system design, operation, and maintenance to ensure the efficiency and sustainability of these essential infrastructures.

Participants will explore types of sewage treatment systems, from conventional to advanced sewage treatment systems, to understand their processes, applications, and best operational practices. The Sewage Treatment Systems Operation and Maintenance course covers preventive and corrective maintenance, troubleshooting techniques, and compliance with environmental sewage treatment systems regulations. Emphasizing practical applications, it includes real-world case studies and interactive sessions to reinforce learning.

Additionally, the Sewage Treatment Systems Operation and Maintenance course highlights energy efficiency, sustainable practices, and strategies to minimize operational costs while maximizing performance. Safety procedures and best practices in handling sewage treatment system maintenance will be covered. Participants will be proficient in optimizing sewage treatment plant operation and maintenance, ensuring long-term reliability and compliance with environmental standards.

Targeted Groups:

This Sewage Treatment Systems Operation and Maintenance training targets professionals seeking specialized knowledge and skills:

- Municipal water and wastewater treatment operators are responsible for facility management.
- Environmental engineers and technicians involved in designing and optimizing treatment processes.
- Sewage treatment plant maintenance personnel handling preventive and corrective maintenance.
- Facility managers overseeing sewage treatment plant system operations and performance.
- Public health officials monitor sewage treatment operations for regulatory compliance.
- Industrial wastewater management professionals ensure efficient industrial effluent treatment.
- Government regulators and compliance officers are responsible for enforcing environmental standards.
- Consultants in water and sanitation projects advising on sustainable sewage solutions.
- Academics and researchers specializing in eco-friendly sewage treatment systems advancements.

Course Objectives:

Participants will achieve the following objectives by Sewage Treatment Systems Operation and Maintenance course completion:

- Explain the fundamental principles of wastewater treatment processes and sewage treatment system definition.
- Compare the design, components, and functions of different sewage treatment systems.
- Evaluate operational and maintenance strategies for sewage treatment plant maintenance.
- Demonstrate effective troubleshooting techniques for common operational issues.
- Analyze safety protocols and regulatory requirements in sewage treatment plant operation.
- Optimize energy efficiency in sewage treatment operation and cost management strategies.
- Interpret water quality data to enhance treatment process efficiency.
- Develop comprehensive maintenance schedules to reduce system downtime.
- Apply sustainable and eco-friendly sewage treatment systems practices.
- Enhance communication and collaboration in multidisciplinary sewage treatment teams.

Targeted Competencies:

Participants will gain the following competencies during the Sewage Treatment Systems Operation and Maintenance program:

- Technical expertise in sewage treatment system design and operational principles.
- Problem-solving skills to troubleshoot and resolve system inefficiencies.
- Regulatory knowledge for compliance with environmental standards and safety measures.
- Operational efficiency in managing sewage treatment plant system workflows.
- Data interpretation skills for assessing water quality and optimizing treatment processes.
- Maintenance planning proficiency for preventive and predictive maintenance strategies.
- Leadership and teamwork abilities for effective plant operations.
- Energy management expertise to implement eco-friendly sewage treatment systems.

Course Content:

Unit 1: Introduction to Wastewater Treatment:

- Overview of wastewater treatment fundamentals.
- Importance of sewage treatment systems in public health and the environment.
- Types of sewage treatment systems and their applications.
- Regulations governing sewage treatment plant operation.
- Introduction to key treatment technologies.

Unit 2: Principles of Sewage Treatment:

- Physical, chemical, and biological treatment processes.
- Sewage treatment system definition and operational principles.
- Sludge management and disposal methods.
- Innovations in advanced sewage treatment systems.

Unit 3: Sewage Treatment Plant Design and Layout:

- Structural components of a sewage treatment plant system.
- Factors influencing sewage treatment system design.
- Hydraulic and process considerations.
- Case studies of optimized plant layouts.

Unit 4: Operation and Maintenance of Sewage Treatment Plants:

- Routine sewage treatment maintenance practices.
- Preventive vs. corrective maintenance approaches.
- Performance monitoring and optimization strategies.
- Common challenges in sewage treatment plant maintenance.

Unit 5: Safety & Environmental Compliance:

- Occupational hazards in sewage treatment plant operation.
- Regulatory compliance and reporting requirements.
- Emergency response planning.
- Handling and disposal of hazardous materials.

Unit 6: Troubleshooting & Performance Optimization:

- Identifying inefficiencies in treatment processes.
- Troubleshooting equipment malfunctions.
- Adjusting operational parameters for peak efficiency.
- Implementing sewage treatment operation enhancements.

Unit 7: Water Quality Monitoring & Data Analysis:

- Importance of water quality assessment.
- Sampling and laboratory testing methodologies.
- Data interpretation for system optimization.
- Impact of effluent quality on regulatory compliance.

Unit 8: Energy Efficiency & Cost Reduction:

- Eco-friendly sewage treatment systems and sustainable practices.
- Energy-saving strategies for sewage treatment plant operation.
- Cost-effective chemical and sludge management.
- Maximizing resource recovery and reuse.

Unit 9: Communication & Team Collaboration:

- Building teamwork in sewage treatment systems training programs.
- Conflict resolution and leadership development.
- Effective communication with regulatory bodies and stakeholders.
- Best practices for reporting and documentation.

Unit 10: Future Trends & Technological Advancements:

- Emerging trends in sewage treatment system maintenance.
- Innovations in automation and smart monitoring systems.
- Integration of renewable energy in treatment facilities.
- The future of environmental sewage treatment systems.

Final Insights & Key Takeaways:

The Sewage Treatment Systems Operation and Maintenance training course equips professionals with critical knowledge and practical expertise to enhance sewage treatment efficiency. Participants gain insights into sewage treatment plant operation and maintenance, environmental compliance, and cost-effective strategies.

By integrating advanced technologies and best practices, this Sewage Treatment Systems Operation and Maintenance program ensures long-term sustainability in wastewater management. Ultimately, it provides a solid foundation for optimizing sewage treatment systems while safeguarding public health and the environment.



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**Registration form on the :
Sewage Treatment Systems Operation & Maintenance Training**

code: 15992 **From:** 01 - 12 Feb 2027 **Venue:** Paris (France) **Fees:** 10500 **Euro**

Complete & Mail or fax to Mercury Training Center at the address given below

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