

Introduction to Environmental Water

Career Exploration

This certification provides participants with both theoretical insights and practical skills in water filtration and treatment, preparing them for roles in environmental and industrial water management. The Environmental Water Systems certification provides a comprehensive overview of water treatment principles, focusing on potable and wastewater filtration. Participants gain knowledge about water quality parameters, filtration technologies, and environmental considerations in water management. The course covers sedimentation, filtration, and disinfection methods, as well as water quality testing techniques. Through hands-on lab activities and real-world project challenges, learners develop practical skills for analyzing, treating, and managing water resources effectively. This certification equips participants with the foundational knowledge needed to evaluate and deploy water filtration technologies.

Industry Recognized Certification Topics

- Safety in Water Filtration Systems
- Fundamentals of Water Chemistry
- Water Quality Testing and Analysis
- Filtration and Disinfection Processes
- Engineering Principles in Water Treatment
- Environmental Impact of Water Treatment
- Sustainable Water Management
- Project-Based Learning in Water Filtration

Industry Recognized Certification Competencies

- Understand and Apply Fundamentals of Water Chemistry
- Conduct and Interpret Water Quality Tests
- Operate and Maintain Filtration Systems
- Apply Engineering Methods in Water Treatment
- Evaluate Environmental and Sustainability Factors
- Develop and Present Water Filtration Projects

Units - 12 / Labs - 10

