

Water management. Revenue generation and recovery. Water scarcity.

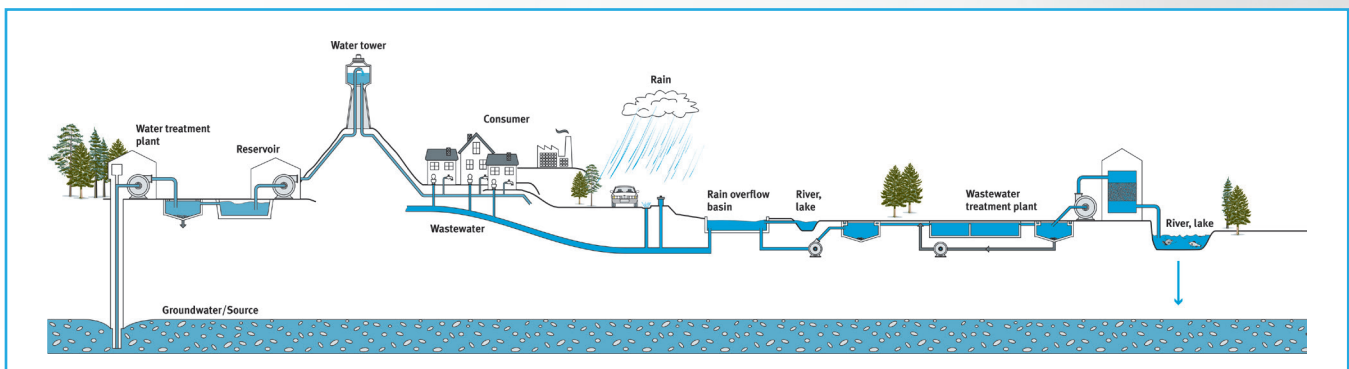


Today's water and wastewater professionals need to stay on top of industry trends to keep operations running efficiently *and* profitably.

Only one lab provides training on the entire water management cycle – in one place. NEW Works labs offer end-to-end courses featuring both cutting-edge equipment and current software.

Learn how to make the most of your water management system:

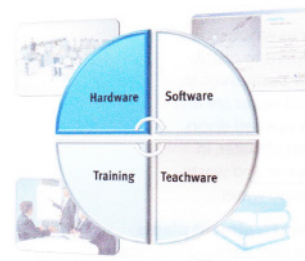
- Optimize **nutrient** extraction
- Minimize **energy** use
- Accurately monitor and distribute **water** use



The NEW Works lab uses state-of-the-art FESTO Didactic training modules. This self-contained laboratory, the only one of its kind in the United States, replicates the entire water management cycle in six core areas:

- Water Purification
- Water Supply
- Wastewater Transport
- Wastewater Treatment
- Monitoring & Controlling
- Energy Optimization in Plants

All courses use easy-to-follow workbooks and software.



You can also customize a NEW Works training program to fit your specific needs. Just ask us how!

Course Offerings

Course #1

GN101 – Intro to Water Management

1 hour / .1 CEUs

Introduction to Water Management System Laboratory

Course #2

GN111 – Overview of complete water management systems

4 hours / .4 CEUs

Overview of water management sub-systems and operations. Water extraction, purification, distribution, wastewater collection, wastewater transport, storm water management, and wastewater treatment.

Course #3

GN121 – Introduction to complete water management systems for non-technical staff

16 hours / 1.6 CEUs

Industry terminology, freshwater extraction and treatment, water transport, wastewater collection and transport, and wastewater treatment systems. Hands-on experiments for various conditions of water use and natural events such as a major storm. Review of major industry technology and suppliers.

Course #4

PA231 – Water purification processes in modern water works

8 hours / .8 CEUs

Principles, practices and the desired function and operation of a variety of water treatment processes, including flocculation and sedimentation. Learn the necessary techniques to create an environmentally safe effluent on one side and ensure healthy drinking water on the other.

Course #5

PA241 – Safe and efficient fresh water transport and distribution

16 hours / 1.6 CEUs

Understand pump types, operation, characteristics, and what influences pump performance in water supply. Learn relationship between pressure and volume flow rate in a piping system, how to control supply using different types of valves, fill levels of tower while water is consumed, significance of pressure zones in water distribution area, water loss, and challenges faced in detecting leaks.

Course #6

PA251 – Key processes of wastewater transport and control

16 hours / 1.6 CEUs

Transporting solids in combined sewage sewers with varying flow rates. Effects of exceeding hydraulic capacity. Sewer system blockage impact and dealing with sediments. Rain overflow basins. Trace wastewater flow from point of origin to wastewater plant.

Course #7

PA261 – Fundamentals of modern wastewater treatment process

16 hours / 1.6 CEUs

The efficient and economic layout of a treatment plant requires careful design based on flow rates, components of raw wastewater and organic load, end use of the treated water, economic viability, site area available for installation, and climate patterns – temperature and precipitation. Understand selection of treatment plant types and processes.

Course #8

PA271 – Monitoring, controlling and optimizing operations in water and wastewater treatment plants

16 hours / 1.6 CEUs

New technology has opened doors for more efficient methods of controlling the distribution of water. Monitoring and controlling water and wastewater treatment plant processes helps ensure good water quality, prevent excessive dosing and undesired chemical concentration, and energy costs. Includes sampling, testing, recording, and reporting results.

Course #9

PA281 – Energy optimization in water and wastewater treatment plants

16 hours / 1.6 CEUs

An optimized system consumes less electrical power, results in reduced maintenance work, and increases the life of operational units. Special focus on aeration. Energy optimization helps ensure environmental compliance.

Course #10

PN331 – Pneumatics for water management

24 hours / 2.4 CEUs

Lower cost, system reliability, reduced complexity, ease of use, and maintenance have all led to increased pneumatic drive use in water treatment plants. This course provides insight into process automation and process reliability using pneumatics.

For a Master Certificate; complete a series of three or more PA courses. Master Certificates in Freshwater Systems, Water Transport Systems, Wastewater Treatment System, Intelligent Smart Water and Wastewater Systems

Online information at www.mahattil.com/learn.html

NEW Works

Global Water Center – Suite 220
247 West Freshwater Way, Milwaukee, Wisconsin 53204, USA
water@mahattil.com - (262) 671-4291

NEW | **wörks**
Practical. Advanced.