

WASTEWATER 101

WASTEWATER TREATMENT FUNDAMENTALS

ABOUT THIS TRAINING

The wastewater treatment profession is an exciting field involving science, technology and public health protection where you can directly help your local community. This class is designed to cover the fundamentals of wastewater treatment and provide a pathway to greater understanding of wastewater treatment. The content is accessible enough for people new to the industry while also robust enough to provide insight to practiced professionals. It is perfect for those looking to learn more about the field as well as those presently in the field and looking to expand their knowledge base while studying concepts which may be included on future certification exams.

The instruction team includes some of New Hampshire's leading wastewater treatment professionals!

- Phil Boisvert, Portsmouth Wastewater Operations Manager
- Dave St Armand, Manchester WWTF Plant Manager
- Laurel Jackson Endyne Labs, Quality Systems Manager
- Anthony Drouin, Brown & Caldwell



'Wastewater 101: Wastewater Treatment Fundamentals' is an ideal foundation for anyone interested in learning more about wastewater treatment from some of New Hampshire's most experienced wastewater utility leaders. Class will conclude with a tour of an actual, operating New Hampshire wastewater facility!

TRAINING DETAILS

Friday, October 9, 2026
from 8:30 AM to 2:30 PM

Franklin Training Center
528 River Street
Franklin, NH. 03235

REGISTRATION

\$75 NHWPCCA Members
\$99 Non Members

Coffee, donuts and lunch
will be provided.

This course is pending
approved for 5 TCHs.

Space is limited to 25.

[View cancellation policy.](#)

REGISTER



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www.nhwpcca.org



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PROPOSED COURSE SCHEDULE

8:30 AM – Introduction and Wastewater Fundamentals

Role and responsibilities of wastewater operators; What wastewater is and why treatment is necessary; History of wastewater regulation; Federal, state, and municipal responsibilities; NPDES permits and regulatory framework; and types and sizes of wastewater treatment facilities

9:00 AM – Wastewater Treatment Processes

Preliminary treatment – screening and grit removal; Primary treatment and clarification; Activated sludge and aeration; Secondary clarification; RAS and WAS; Trickling filters; Lagoons; Sequencing Batch Reactors (SBR) Tertiary filtration; Disinfection – chlorine and ultraviolet systems; Sludge thickening; Aerobic and anaerobic digestion; Dewatering; and Biosolids management, land application, landfill, composting, and incineration

10:15 AM – Break

10:30 AM – Laboratory and Operator Responsibilities

Daily operator responsibilities; Laboratory safety and personal protective equipment; Precision and accuracy; Measuring mass and volume; Laboratory glassware; Reagents and proper labeling; Colorimetric testing; Quality control and quality assurance; Standard Operating Procedures; Laboratory waste disposal; Laboratory ethics and data integrity; Monitoring and routine laboratory testing; Lab and composite sampling; and Chain of custody

12:00 PM – Lunch

12:30 PM – Operations, Compliance, Licensing and Troubleshooting

Process control and operational adjustments; SCADA systems and equipment monitoring; Recordkeeping and documentation; NHDES permits and reporting requirements; Operator certification and licensing; Continuing education; Career advancement and professional organizations; Skills and traits of successful wastewater operators; Operational troubleshooting scenarios (Low dissolved oxygen and high ammonia; High effluent TSS; Power failure; Bulking sludge; Low chlorine residual); Current and future wastewater industry challenges; Technology, automation, and remote monitoring

2:00 PM – Wastewater Treatment Facility Tour

Observe treatment processes discussed during the classroom portion; Identify major process equipment; Discuss operator responsibilities and safety in an operating facility; Questions and discussion

2:30 PM – Course Conclusion

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