



Experiences of a New Wastewater Operator

Repeating on September 23, 24, 25 2024

Starting at 6:30 pm

Duration: 90 minutes (1.5 TCHs); Wastewater approval: CT, MA, ME, NH, NY, and VT

Instructor: Mike Jennings; michael.jennings28667@gmail.com (781-605-5519). Founder of Utiency Services, with over 25 years of experience in the field of water pollution prevention, wastewater treatment infrastructure management, and operator certification and training. Massachusetts (4M/1I) and Florida (Grade C) certified wastewater operator

This free 90-minute training class presents the instructor's personal experiences entering the active certified wastewater operator community, as a later-in-life second career pathway.

Focuses will include:

- Exam strategy and direct certification process experiences for NH, MA, and FL.
- Personal knowledge gained from hands-on operator experiences – including a virtual-tour of an advanced wastewater treatment facility permitted for 12-MGD daily flow.
- First-hand “eye-opening” experiences of obtaining certification later-in-life, and becoming an active wastewater operator, will be facilitated for group discussion.
- Common daily, weekly, and monthly operational tasks will be discussed.

Experiences to be highlighted:

- Assisting in the operation of a Modified Ludzack Ettinger (MLE) advanced wastewater treatment facility, having an average daily flow of 6.5 MGD. Advanced processes include up-flow sand filtration and disinfection with chlorine gas, with authorization for distribution of compliant plant effluent for landscape irrigation reuse.
- Conducting bench-top laboratory tests (total and volatile solids, pH, alkalinity, nutrients) to guide daily process control strategy.
- Typical daily routine tasks – plant tours and recoding pump/motor run times, sampling and data gathering, process monitoring, and general house-keeping.
- Calculation of daily sludge wasting quantities to achieve desired mean cell residence time; utilizing gravimetric analysis of mixed liquor and WAS samples to determine current solids inventory.



Additional Utiliency Services virtual wastewater operator training topics:

Visit www.utiliency.com for scheduling and registration details

	COURSE TITLE	HOURS	Wastewater Approvals
1	Fundamentals of High-Strength Brewery Wastewater	3	CT, MA, ME, NH, NY, VT
2	Clarifiers and Sedimentation, with math	3	CT, MA, ME, NH, NY, VT
3	Developing Problem-Solving and Decision-Making Skills	3	CT, MA, ME, NH, NY, VT
4	Experiences of a New Wastewater Operator	1.5	MA, ME, NH, NY, VT
5	Disinfection Fundamentals	3	CT, MA, ME, NH, NY, VT
6	pH and Suspended Solids Benchtop Tests	3	CT, MA, ME, NH, NY, VT
7	Essential Math Skills Review	3	CT, MA, ME, NH, NY, VT
8	Collection System Math Skills Review	3	CT, MA, ME, NH, NY, VT
9	Wastewater Operator Math Skills Basic Review	3	CT, MA, ME, NH, NY, VT
10	Activated Sludge Math Skills Review	3	CT, MA, ME, NH, NY, VT
11	Solids Processing Math Review	3	CT, MA, ME, NH, NY, VT
12	Grease Issues and Source Control	3	CT, MA, ME, NH, NY, VT
13	Pumps 101 for Exam Prep	3	CT, MA, ME, NH, NY, VT
14	Increase Your Collection System O&M Knowledge	3	CT, MA, ME, NH, NY, VT
15	Intro to Activated Sludge Process Control/Troubleshooting	3	CT, MA, ME, NH, NY, VT
16	Metal Hydroxide Precipitation Concepts	3	CT, MA, ME, NH, NY, VT
17	Power Outage Contingency Planning	3	CT, MA, ME, NH, NY, VT
18	Oxidation-Reduction Potential (ORP) – What Is It	3	CT, MA, ME, NH, NY, VT
19	Basics of Biological Wastewater Treatment	3	CT, MA, ME, NH, NY, VT
20	Fundamentals of Nutrient Reduction Strategies	3	CT, MA, ME, NH, NY, VT
21	Wastewater Transport; Collection and Conveyance	3	CT, MA, ME, NH, NY, VT