



## RECOMMENDED COURSE GUIDE – Fall 2024 NEIW PCC Massachusetts Wastewater Operator Training (MWOT) Program

The Board of Wastewater Operator Certification provides training courses to assist operators in preparing for all grades of municipal, industrial, and combined exams. For Fall 2024, this MWOT Program will be offered virtually through NEIW PCC. This program is also offering an in-person Basic Municipal Wastewater course and an in-person Basic Industrial Wastewater course. You can view and register for all courses via the following link: <https://payments.neiwpc.org/product-category/training/>

These courses are being offered as a resource to build a custom wastewater syllabus for each individual. **Students are not required to take every class offered by this program.** Students should select those courses needed to gain sufficient depth of knowledge on topics likely to be seen on their respective exams.

There are many additional exam preparation opportunities, including other online training providers, correspondence courses, study guides, vendor training, YouTube videos, and contacting experienced wastewater professionals and association members (e.g., MAWEA). It may take a combination of training approaches to prepare for a wastewater certification exam. If you know of additional training opportunities that can supplement the courses listed below, please contact John Murphy of MassDEP (john.j.murphy@mass.gov, 617-352-3375).

The following tables offer a guide to selecting NEIW PCC courses for each grade of the Massachusetts operator exam. Most course content is also applicable for other states. Operators are also encouraged to take any other classes on our training calendar.

### MUNICIPAL GRADES 1 & 2 (LIVE VIRTUAL)

Class name	Date	Time	TCHs
Basic Wastewater Math - Part I	9/03/24	8:30 - 11:30 AM	3
Introduction to Municipal Wastewater Treatment	9/04/24	8:30 - 11:30 AM	3
Basic Wastewater Math - Part II	9/10/24	8:30 - 11:30 AM	3
Massachusetts Wastewater Regulations & Certification Overview	9/11/24	8:30 - 10:30 AM	2
Introduction to Collections Systems	9/18/24	8:30 - 11:30 AM	3
Introduction to Pumps - Part I	9/25/24	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Preliminary & Primary Treatment	10/01/24	8:30 - 11:30 AM	3
Introduction to Pumps - Part II	10/02/24	8:30 - 11:30 AM	3
Water Quality & NPDES Permitting	10/03/24	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Secondary Treatment - Part I	10/08/24	8:30 - 11:30 AM	3
Introduction to Water & Wastewater Laboratory	10/10/24	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Secondary Treatment - Part II	10/15/24	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Disinfection	10/22/24	8:30 - 10:30 AM	2
Basic Municipal & Industrial Wastewater - Solids Handling	10/30/24	8:30 - 11:30 AM	3
Wastewater Safety	11/06/24	8:30 - 11:30 AM	3

### MUNICIPAL GRADES 1 & 2 (IN-PERSON)

Class name	Dates	Time	Location	TCHs
Basic Municipal Wastewater (In-Person)*	October 2, 9, 16 & 23 and 30, 2024	8:30 AM - 3:30 PM	Millbury, MA	30

\* Prerequisite: attending live virtual Basic Math Part I (9/03/24) and Basic Math Part II (9/10/24) is strongly recommended prior to this class.



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**MUNICIPAL GRADES 3 & 4 (LIVE VIRTUAL)**

Class name	Date	Time	TCHs
Massachusetts Wastewater Regulations & Certification Overview	9/11/24	8:30 - 10:30 AM	2
Introduction to Pumps - Part I	9/25/24	8:30 - 11:30 AM	3
Introduction to Pumps - Part II	10/02/24	8:30 - 11:30 AM	3
Water Quality & NPDES Permitting	10/03/24	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Secondary Treatment - Part I	10/08/24	8:30 - 11:30 AM	3
Introduction to Water & Wastewater Laboratory	10/10/24	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Secondary Treatment - Part II	10/15/24	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Disinfection	10/22/24	8:30 - 10:30 AM	2
Laboratory Analyses - pH & Total Residual Chlorine	10/24/24	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part I	10/29/24	8:30 - 11:30 AM	3
Basic Municipal & Industrial Wastewater - Solids Handling	10/30/24	8:30 - 11:30 AM	3
Laboratory Analyses - Biochemical Oxygen Demand & Dissolved Oxygen	10/31/24	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part II	11/05/24	8:30 - 11:30 AM	3
Wastewater Safety	11/06/24	8:30 - 11:30 AM	3
Laboratory Analyses – Bacteria	11/07/24	8:30 - 11:30 AM	3
Laboratory Analyses – Solids	11/21/24	8:30 - 11:30 AM	3

**INDUSTRIAL GRADES 1 & 2 (LIVE VIRTUAL)**

Class name	Date	Time	TCHs
Basic Wastewater Math - Part I	9/03/24	8:30 - 11:30 AM	3
Introduction to Industrial Wastewater Treatment	9/05/24	8:30 - 11:30 AM	3
Basic Wastewater Math - Part II	9/10/24	8:30 - 11:30 AM	3
Massachusetts Wastewater Regulations & Certification Overview	9/11/24	8:30 - 10:30 AM	2
Introduction to Pumps - Part I	9/25/24	8:30 - 11:30 AM	3
Introduction to Pumps - Part II	10/02/24	8:30 - 11:30 AM	3
Basic Industrial Wastewater - Characteristics & Chemistry	10/09/24	8:30 - 11:30 AM	3
Introduction to Water & Wastewater Laboratory	10/10/24	8:30 - 11:30 AM	3
Basic Industrial Wastewater - Treatment Processes	10/16/24	8:30 - 11:30 AM	3
Basic Industrial Wastewater - pH Neutralization	10/23/24	8:30 - 11:30 AM	3
Basic Municipal & Industrial Wastewater - Solids Handling	10/30/24	8:30 - 11:30 AM	3
Wastewater Safety	11/06/24	8:30 - 11:30 AM	3

**INDUSTRIAL GRADES 1 & 2 (IN-PERSON)**

Class name	Dates	Time	Location	TCHs
Basic Industrial Wastewater (In-Person)*	October 1, 8, 22 & 29, 2024	8:30 AM - 3:30 PM	Millbury, MA	24

\* Prerequisite: attending live virtual Basic Math Part I (9/03/24) and Basic Math Part II (9/10/24) is strongly recommended prior to this class.



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**INDUSTRIAL GRADES 3 & 4 (LIVE VIRTUAL)**

<b>Class name</b>	<b>Date</b>	<b>Time</b>	<b>TCHs</b>
Massachusetts Wastewater Regulations & Certification Overview	9/11/24	8:30 - 10:30 AM	2
Introduction to Pumps - Part I	9/25/24	8:30 - 11:30 AM	3
Introduction to Pumps - Part II	10/02/24	8:30 - 11:30 AM	3
Introduction to Water & Wastewater Laboratory	10/10/24	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part I	10/29/24	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part II	11/05/24	8:30 - 11:30 AM	3
Wastewater Safety	11/06/24	8:30 - 11:30 AM	3
Advanced Industrial Wastewater - Treatment Processes - Part I	11/13/24	8:30 - 11:30 AM	3
Advanced Industrial Wastewater - Treatment Processes - Part II	11/20/24	8:30 - 11:30 AM	3
Electricity, Motors, & Horsepower	12/04/24	8:30 - 11:30 AM	3
Advanced Pumps & Hydraulics	12/11/24	8:30 - 11:30 AM	3
Advanced Laboratory Procedures	12/12/24	8:30 - 11:30 AM	3

**COMBINED GRADES 5 & 6 (LIVE VIRTUAL)**

<b>Class name</b>	<b>Date</b>	<b>Time</b>	<b>TCHs</b>
Massachusetts Wastewater Regulations & Certification Overview	9/11/24	8:30 - 10:30 AM	2
Water Quality & NPDES Permitting	10/03/24	8:30 - 11:30 AM	3
Basic Industrial Wastewater - pH Neutralization	10/23/24	8:30 - 11:30 AM	3
Laboratory Analyses - pH & Total Residual Chlorine	10/24/24	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part I	10/29/24	8:30 - 11:30 AM	3
Laboratory Analyses - Biochemical Oxygen Demand & Dissolved Oxygen	10/31/24	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part II	11/05/24	8:30 - 11:30 AM	3
Wastewater Safety	11/06/24	8:30 - 11:30 AM	3
Laboratory Analysis - Bacteria	11/07/24	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Treatment Technologies	11/12/24	8:30 - 11:30 AM	3
Advanced Industrial Wastewater - Treatment Processes - Part I	11/13/24	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Activated Sludge	11/19/24	8:30 - 11:30 AM	3
Advanced Industrial Wastewater - Treatment Processes - Part II	11/20/24	8:30 - 11:30 AM	3
Laboratory Analyses - Solids	11/21/24	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Process Control & Troubleshooting	11/26/24	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Biological Nutrient Removal	12/03/24	8:30 - 11:30 AM	3
Electricity, Motors, & Horsepower	12/04/24	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Solids Handling	12/10/24	8:30 - 11:30 AM	3
Advanced Pumps & Hydraulics	12/11/24	8:30 - 11:30 AM	3
Advanced Laboratory Procedures	12/12/24	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Administration, Management & Finance	12/17/24	8:30 - 11:30 AM	3



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**ADDITIONAL TRAINING OPPORTUNITIES**

***Please note that this is not a comprehensive list of available wastewater operator training. There are many other training providers and opportunities available.***

**SELF-STUDY COURSES**

- Sacramento State – Water Programs: <https://www.owp.csus.edu/courses/wastewater.php>
- Water Environment Federation (Wastewater Treatment Fundamentals): <https://www.wef.org/resources/publications/books/>
- CEUPlan.com
- RoyCEU.com
- SkillWorks.com
- Clear-Water-Consulting.com

**COURSES OFFERED BY BRISTOL COMMUNITY COLLEGE**

Through a grant from the DESE Integrated Education & Training Program, BCC has been offering the following water and wastewater courses at no charge (students must purchase the course books):

Section	Course Title	Credits
EGR 143.GRA	Conceptual Math for Environmental Technicians	3
EGR 241.GRA	Clean Water Technology 1 (Wastewater Treatment)	4
EGR 242.STM	Clean Water Technology 2 (Wastewater Treatment)	4
EGR 248.STM	Advanced Water Treatment (Drinking Water)	4

Form more information, please contact Robert Rak at [Robert.Rak@bristolcc.edu](mailto:Robert.Rak@bristolcc.edu).

**OTHER WASTEWATER TRAINING PROVIDERS IN NEW ENGLAND**

- Clear Water Consulting
- Falcone Environmental Services
- NEWWTA
- Peterson School
- Practical Applications
- Tighe & Bond
- Wastewater Technology Trainers
- Weston & Sampson
- Local colleges, universities, and community colleges