



## RECOMMENDED COURSE GUIDE – Spring 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 Spring 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
Introduction to Municipal Wastewater Treatment	1/30/24	8:30 - 11:30 AM	3
Introduction to Collections Systems	2/01/24	8:30 - 11:30 AM	3
Basic Wastewater Math - Part I	2/06/24	8:30 - 11:30 AM	3
Water Quality & NPDES Permitting	2/08/24	8:30 - 11:30 AM	3
Basic Wastewater Math - Part II	2/13/24	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Preliminary & Primary Treatment	2/20/24	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Secondary Treatment - Part I	2/27/24	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Secondary Treatment - Part II	3/05/24	8:30 - 11:30 AM	3
Massachusetts Wastewater Regulations & Certification Overview	3/07/24	8:30 - 10:30 AM	2
Basic Municipal Wastewater - Disinfection	3/12/24	8:30 - 10:30 AM	2
Basic Municipal & Industrial Wastewater - Solids Handling	3/13/24	8:30 - 11:30 AM	3
Introduction to Pumps - Part I	3/27/24	8:30 - 11:30 AM	3
Introduction to Pumps - Part II	4/03/24	8:30 - 11:30 AM	3
Introduction to Water & Wastewater Laboratory	4/11/24	8:30 - 11:30 AM	3
Wastewater Safety	4/17/24	8:30 - 11:30 AM	3

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

Class name	Dates	Time	Location	TCHs
Basic Municipal Wastewater (In-Person)*	April 3, 10, 17 & 24 and May 1, 2024	8:30 AM - 3:30 PM	Millbury, MA	30

\* Prerequisite: attending live virtual Basic Math Part I (2/06/24) and Basic Math Part II (2/13/24) is strongly recommended prior to this class.



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

Class name	Date	Time	TCHs
Water Quality & NPDES Permitting	2/08/24	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Secondary Treatment - Part I	2/27/24	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Secondary Treatment - Part II	3/05/24	8:30 - 11:30 AM	3
Massachusetts Wastewater Regulations & Certification Overview	3/07/24	8:30 - 10:30 AM	2
Basic Municipal Wastewater - Disinfection	3/12/24	8:30 - 10:30 AM	2
Basic Municipal & Industrial Wastewater - Solids Handling	3/13/24	8:30 - 11:30 AM	3
Introduction to Pumps - Part I	3/27/24	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part I	4/02/24	8:30 - 11:30 AM	3
Introduction to Pumps - Part II	4/03/24	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part II	4/09/24	8:30 - 11:30 AM	3
Introduction to Water & Wastewater Laboratory	4/11/24	8:30 - 11:30 AM	3
Wastewater Safety	4/17/24	8:30 - 11:30 AM	3
Laboratory Analyses - pH & Total Residual Chlorine	4/18/24	8:30 - 11:30 AM	3
Laboratory Analyses - Biochemical Oxygen Demand & Dissolved Oxygen	4/25/24	8:30 - 11:30 AM	3
Laboratory Analyses - Solids	5/02/24	8:30 - 11:30 AM	3
Laboratory Analyses - Bacteria	5/09/24	8:30 - 11:30 AM	3

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

Class name	Date	Time	TCHs
Introduction to Industrial Wastewater Treatment	1/31/24	8:30 - 11:30 AM	3
Basic Wastewater Math - Part I	2/06/24	8:30 - 11:30 AM	3
Basic Wastewater Math - Part II	2/13/24	8:30 - 11:30 AM	3
Basic Industrial Wastewater - Characteristics & Chemistry	2/14/24	8:30 - 11:30 AM	3
Basic Industrial Wastewater - Treatment Processes	2/28/24	8:30 - 11:30 AM	3
Basic Industrial Wastewater - pH Neutralization	3/06/24	8:30 - 11:30 AM	3
Massachusetts Wastewater Regulations & Certification Overview	3/07/24	8:30 - 10:30 AM	2
Basic Municipal & Industrial Wastewater - Solids Handling	3/13/24	8:30 - 11:30 AM	3
Introduction to Pumps - Part I	3/27/24	8:30 - 11:30 AM	3
Introduction to Pumps - Part II	4/03/24	8:30 - 11:30 AM	3
Introduction to Water & Wastewater Laboratory	4/11/24	8:30 - 11:30 AM	3
Wastewater Safety	4/17/24	8:30 - 11:30 AM	3

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

Class name	Dates	Time	Location	TCHs
Basic Industrial Wastewater (In-Person)*	April 16, 23 & 30 and May 7, 2024	8:30 AM - 3:30 PM	Millbury, MA	24

\* Prerequisite: attending live virtual Basic Math Part I (2/06/24) and Basic Math Part II (2/13/24) 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	3/07/24	8:30 - 10:30 AM	2
Introduction to Pumps - Part I	3/27/24	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part I	4/02/24	8:30 - 11:30 AM	3
Introduction to Pumps - Part II	4/03/24	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part II	4/09/24	8:30 - 11:30 AM	3
Introduction to Water & Wastewater Laboratory	4/11/24	8:30 - 11:30 AM	3
Wastewater Safety	4/17/24	8:30 - 11:30 AM	3
Advanced Industrial Wastewater - Treatment Processes - Part I	4/24/24	8:30 - 11:30 AM	3
Advanced Industrial Wastewater - Treatment Processes - Part II	5/01/24	8:30 - 11:30 AM	3
Electricity, Motors, & Horsepower	5/08/24	8:30 - 11:30 AM	3
Advanced Pumps & Hydraulics	5/15/24	8:30 - 11:30 AM	3
Advanced Laboratory Procedures	5/16/24	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>
Water Quality & NPDES Permitting	2/08/24	8:30 - 11:30 AM	3
Basic Industrial Wastewater - pH Neutralization	3/06/24	8:30 - 11:30 AM	3
Massachusetts Wastewater Regulations & Certification Overview	3/07/24	8:30 - 10:30 AM	2
Intermediate Wastewater Math - Part I	4/02/24	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part II	4/09/24	8:30 - 11:30 AM	3
Wastewater Safety	4/17/24	8:30 - 11:30 AM	3
Laboratory Analyses - pH & Total Residual Chlorine	4/18/24	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Treatment Technologies	4/23/24	8:30 - 11:30 AM	3
Advanced Industrial Wastewater - Treatment Processes - Part I	4/24/24	8:30 - 11:30 AM	3
Laboratory Analyses - Biochemical Oxygen Demand & Dissolved Oxygen	4/25/24	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Activated Sludge	4/30/24	8:30 - 11:30 AM	3
Advanced Industrial Wastewater - Treatment Processes - Part II	5/01/24	8:30 - 11:30 AM	3
Laboratory Analyses - Solids	5/02/24	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Process Control & Troubleshooting	5/07/24	8:30 - 11:30 AM	3
Electricity, Motors, & Horsepower	5/08/24	8:30 - 11:30 AM	3
Laboratory Analysis - Bacteria	5/09/24	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Biological Nutrient Removal	5/14/24	8:30 - 11:30 AM	3
Advanced Pumps & Hydraulics	5/15/24	8:30 - 11:30 AM	3
Advanced Laboratory Procedures	5/16/24	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Solids Handling	5/28/24	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Administration, Management & Finance	6/04/24	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