



RECOMMENDED COURSE GUIDE

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 2023, this MWOT Program will be offered virtually through NEIW PCC. An in-person Basic Municipal Wastewater course is also being offered. You can view and register for all courses via the following link: <https://portal.neiwpc.org/training-calendar.asp>.

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 also many additional exam preparation opportunities, including other online training providers, correspondence courses, study guides, vendor training, YouTube videos, and asking questions of experienced operators either at your facility or through your state wastewater association (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 to brush up on those topics.

MUNICIPAL GRADES 1 & 2 (LIVE VIRTUAL)

Class name	Spring 2023		
	Date	Time	TCHs
Introduction to Municipal Wastewater Treatment	01/31/23	8:30 - 11:30 AM	3
Introduction to Collections Systems	02/02/23	8:30 - 11:30 AM	3
Basic Wastewater Math - Part I	02/07/23	8:30 - 11:30 AM	3
Water Quality & NPDES Permitting	02/09/23	8:30 - 11:30 AM	3
Basic Wastewater Math - Part II	02/14/23	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Preliminary & Primary Treatment	02/21/23	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Secondary Treatment - Part I	02/28/23	8:30 - 11:30 AM	3
Introduction to Water & Wastewater Laboratory	03/09/23	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Secondary Treatment – Part II	03/14/23	8:30 - 11:30 AM	3
Basic Municipal & Industrial Wastewater – Solids Handling	03/15/23	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Disinfection	03/28/23	8:30 - 10:30 AM	2
Introduction to Pumps - Part I	03/29/23	8:30 - 11:30 AM	3
Massachusetts Wastewater Regulations & Certification Overview	04/04/23	8:30 - 10:30 AM	2
Introduction to Pumps - Part II	04/05/23	8:30 - 11:30 AM	3
Wastewater Safety	04/12/23	8:30 - 11:30 AM	3

MUNICIPAL GRADES 1 & 2 (IN-PERSON)

Class name	Spring 2023			
	Dates	Time	Location	TCHs
Basic Municipal Wastewater (In-Person)*	03/22/23 – 04/12/23	8:30 AM - 3:30 PM	Millbury, MA	3

* Prerequisite: attending live virtual Basic Math Part I (02/07/23) and Basic Math Part II (02/14/23) are strongly recommended prior to this class.



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MUNICIPAL GRADES 3 & 4 (LIVE VIRTUAL)

Class name	Spring 2023		
	Date	Time	TCHs
Water Quality & NPDES Permitting	02/09/23	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Secondary Treatment - Part I	02/28/23	8:30 - 11:30 AM	3
Introduction to Water & Wastewater Laboratory	03/09/23	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Secondary Treatment - Part II	03/14/23	8:30 - 11:30 AM	3
Basic Municipal & Industrial Wastewater - Solids Handling	03/15/23	8:30 - 11:30 AM	3
Basic Municipal Wastewater - Disinfection	03/28/23	8:30 - 10:30 AM	2
Introduction to Pumps - Part I	03/29/23	8:30 - 11:30 AM	3
Massachusetts Wastewater Regulations & Certification Overview	04/04/23	8:30 - 10:30 AM	2
Introduction to Pumps - Part II	04/05/23	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part I	04/11/23	8:30 - 10:30 AM	2
Wastewater Safety	04/12/23	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part II	04/18/23	8:30 - 10:30 AM	2
Laboratory Analyses - pH & Total Residual Chlorine	04/20/23	8:30 - 11:30 AM	3
Laboratory Analyses - Biochemical Oxygen Demand & Dissolved Oxygen	04/27/23	8:30 - 11:30 AM	3
Laboratory Analyses - Solids	05/04/23	8:30 - 11:30 AM	3
Laboratory Analyses - Bacteria	05/18/23	8:30 - 11:30 AM	3

INDUSTRIAL GRADES 1 & 2 (LIVE VIRTUAL)

Class name	Spring 2023		
	Date	Time	TCHs
Introduction to Industrial Wastewater Treatment	02/01/23	8:30 - 11:30 AM	3
Basic Wastewater Math - Part I	02/07/23	8:30 - 11:30 AM	3
Basic Wastewater Math - Part II	02/14/23	8:30 - 11:30 AM	3
Basic Industrial Wastewater - Characteristics & Chemistry	02/15/23	8:30 - 11:30 AM	3
Basic Industrial Wastewater - Treatment Processes	03/01/23	8:30 - 11:30 AM	3
Basic Industrial Wastewater - pH Neutralization	03/08/23	8:30 - 11:30 AM	3
Introduction to Water & Wastewater Laboratory	03/09/23	8:30 - 11:30 AM	3
Basic Municipal & Industrial Wastewater - Solids Handling	03/15/23	8:30 - 11:30 AM	3
Introduction to Pumps - Part I	03/29/23	8:30 - 11:30 AM	3
Massachusetts Wastewater Regulations & Certification Overview	04/04/23	8:30 - 10:30 AM	2
Introduction to Pumps - Part II	04/05/23	8:30 - 11:30 AM	3
Wastewater Safety	04/12/23	8:30 - 11:30 AM	3



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INDUSTRIAL GRADES 3 & 4 (LIVE VIRTUAL)

Class name	Spring 2023		
	Date	Time	TCHs
Introduction to Water & Wastewater Laboratory	03/09/23	8:30 – 11:30 AM	3
Introduction to Pumps - Part I	03/29/23	8:30 - 11:30 AM	3
Massachusetts Wastewater Regulations & Certification Overview	04/04/23	8:30 - 10:30 AM	2
Introduction to Pumps - Part II	04/05/23	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part I	04/11/23	8:30 - 10:30 AM	2
Wastewater Safety	04/12/23	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part II	04/18/23	8:30 - 10:30 AM	2
Advanced Industrial Wastewater - Treatment Processes - Session I	04/26/23	8:30 - 11:30 AM	3
Advanced Industrial Wastewater - Treatment Processes - Session II	05/03/23	8:30 - 11:30 AM	3
Electricity, Motors, & Horsepower	05/10/23	8:30 - 11:30 AM	3
Advanced Pumps & Hydraulics	05/31/23	8:30 - 11:30 AM	3
Advanced Laboratory Procedures	06/01/23	8:30 - 11:30 AM	3

COMBINED GRADES 5 & 6 (LIVE VIRTUAL)

Class name	Spring 2023		
	Date	Time	TCHs
Water Quality & NPDES Permitting	02/09/23	8:30 - 11:30 AM	3
Basic Industrial Wastewater - pH Neutralization	03/08/23	8:30 - 11:30 AM	3
Massachusetts Wastewater Regulations & Certification Overview	04/04/23	8:30 - 10:30 AM	2
Intermediate Wastewater Math - Part I	04/11/23	8:30 - 10:30 AM	2
Wastewater Safety	04/12/23	8:30 - 11:30 AM	3
Intermediate Wastewater Math - Part II	04/18/23	8:30 - 10:30 AM	2
Laboratory Analyses - pH & Total Residual Chlorine	04/20/23	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Treatment Technologies	04/25/23	8:30 - 11:30 AM	3
Advanced Industrial Wastewater - Treatment Processes - Session I	04/26/23	8:30 - 11:30 AM	3
Laboratory Analyses - Biochemical Oxygen Demand & Dissolved Oxygen	04/27/23	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Activated Sludge	05/02/23	8:30 - 11:30 AM	3
Advanced Industrial Wastewater - Treatment Processes - Session II	05/03/23	8:30 - 11:30 AM	3
Laboratory Analyses - Solids	05/04/23	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Process Control & Troubleshooting	05/09/23	8:30 - 11:30 AM	3
Electricity, Motors, & Horsepower	05/10/23	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Biological Nutrient Removal	05/16/23	8:30 - 11:30 AM	3
Laboratory Analyses - Bacteria	05/18/23	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Solids Handling	05/23/23	8:30 - 11:30 AM	3
Advanced Municipal Wastewater - Administration, Management, & Finance	05/30/23	8:30 - 11:30 AM	3
Advanced Pumps & Hydraulics	05/31/23	8:30 - 11:30 AM	3
Advanced Laboratory Procedures	06/01/23	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

For more information, please contact Robert Rak at 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