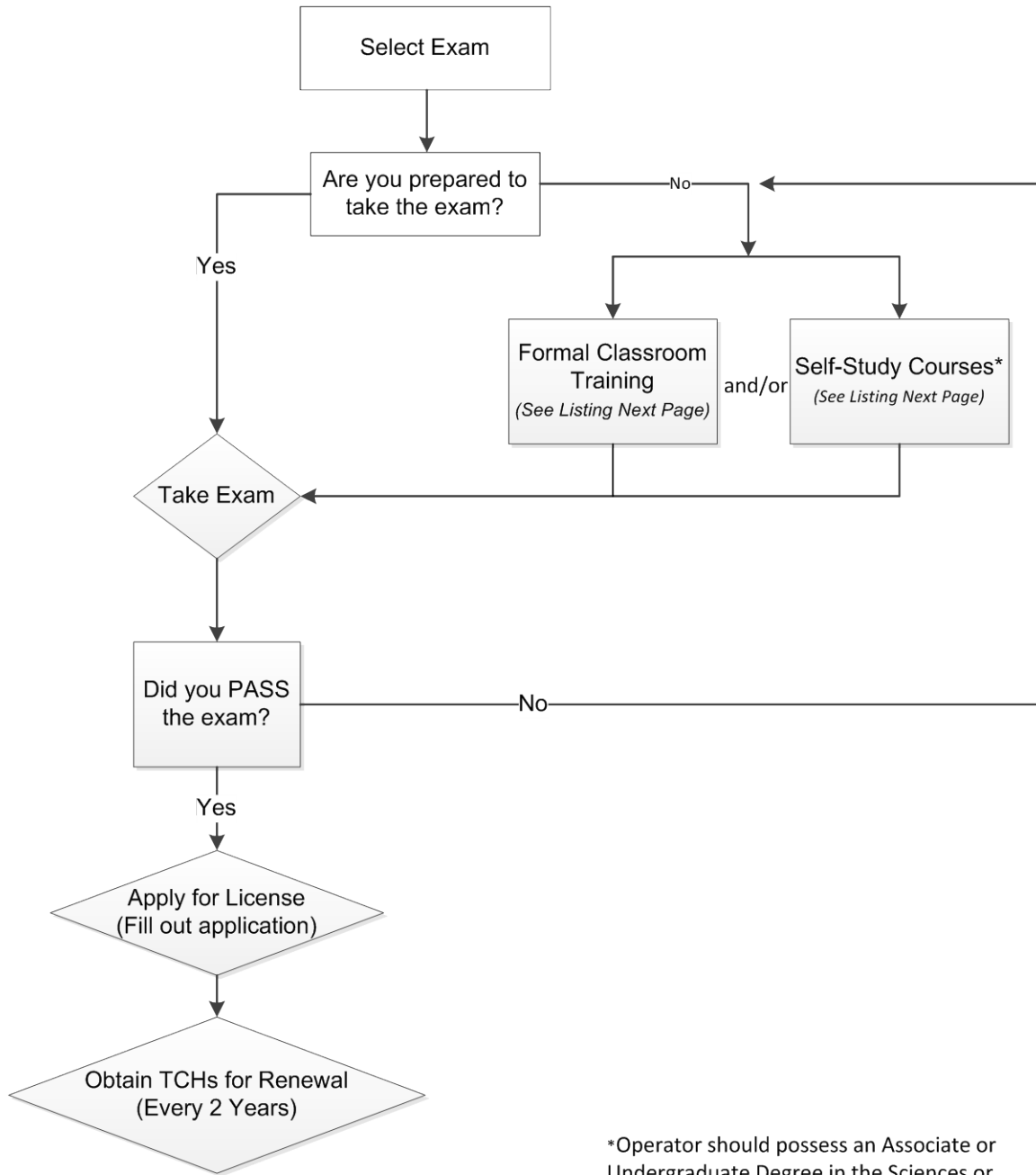


Recommended Preparation for a WWTP Operator's License Examination



*Operator should possess an Associate or Undergraduate Degree in the Sciences or Engineering for the Self-Study Path



RECOMMENDED COURSES

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 2021, this MWOT Program will be offered virtually through NEIW PCC. We hope to return to in-person training once it is safe to do so. You can view/register for the courses via the following links: <https://portal.neiwpc.org/training-calendar.asp> or [MWOT Catalog](#).

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 at either your facility or through 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 level of Massachusetts operator exam. Operators are also encouraged to take any other classes on our training calendar to brush up on those topics.

MUNICIPAL GRADES 1 – 2

Class name	Fall 2021		
	Date	Time	TCHs
Introduction to Municipal Wastewater Treatment	9/7/2021	9:00 AM - 12:00 PM	3
Introduction to Collections Systems	9/8/2021	9:00 AM - 12:00 PM	3
Massachusetts Wastewater Regulations and Certification Overview	9/14/2021	10:00 AM - 12:00 PM	2
Basic Wastewater Safety	9/15/2021	10:00 AM - 12:00 PM	2
Basic Wastewater Math (Session 1)	9/16/2021	9:00 AM - 12:00 PM	3
Basic Municipal Wastewater - Preliminary and Primary Treatment	9/21/2021	9:00 AM - 12:00 PM	3
Basic Wastewater Math (Session 2)	9/23/2021	9:00 AM - 12:00 PM	3
Introduction to Microbiology	9/28/2021	9:00 AM - 12:00 PM	3
Basic Municipal Wastewater – Activated Sludge Process	10/5/2021	9:00 AM – 12:00 PM	3
Basic Municipal Wastewater - Introduction to Wastewater Laboratory	10/12/2021	9:00 AM - 12:00 PM	3
Basic Municipal Wastewater - Solids Handling	10/19/2021	9:00 AM - 12:00 PM	3
Introduction to Pumps (Session 1)	10/28/2021	9:00 AM - 12:00 PM	3
Basic Municipal Wastewater - Disinfection	11/2/2021	10:00 AM - 12:00 PM	2



RECOMMENDED COURSES
NEIW PCC Massachusetts Wastewater Operator Training (MWOT) Program

MUNICIPAL GRADES 3 - 4

Class name	Fall 2021		
	Date	Time	TCHs
Introduction to Municipal Wastewater Treatment	9/7/2021	9:00 AM - 12:00 PM	3
Massachusetts Wastewater Regulations and Certification Overview	9/14/2021	10:00 AM - 12:00 PM	2
Basic Wastewater Safety	9/15/2021	10:00 AM - 12:00 PM	2
Basic Municipal Wastewater - Preliminary and Primary Treatment	9/21/2021	9:00 AM - 12:00 PM	3
Introduction to Microbiology	9/28/2021	9:00 AM - 12:00 PM	3
Water Quality and Effluent Limitations for Wastewater Treatment NPDES Permitting	9/30/2021	8:30 AM - 11:30 AM	3
Basic Municipal Wastewater - Activated Sludge Processes	10/5/2021	9:00 AM - 12:00 PM	3
Sampling Techniques and Chain of Custody for a Wastewater Treatment Facility	10/7/2021	8:30 AM - 11:30 AM	3
Basic Municipal Wastewater - Introduction to Wastewater Laboratory	10/12/2021	9:00 AM - 12:00 PM	3
Laboratory Analyses - pH and Total Residual Chlorine	10/14/2021	8:30 AM - 11:30 AM	3
Basic Municipal Wastewater - Solids Handling	10/19/2021	9:00 AM - 12:00 PM	3
Introduction to Collections Systems	10/20/2021	9:00 AM - 12:00 PM	3
Laboratory Analyses - Biochemical Oxygen Demand and Dissolved Oxygen	10/21/2021	8:30 AM - 11:30 AM	3
Intermediate Wastewater Math (Session 1)	10/27/2021	10:00 AM - 12:00 PM	2
Introduction to Pumps (Session 1)	10/28/2021	9:00 AM - 12:00 PM	3
Basic Municipal Wastewater - Disinfection	11/2/2021	10:00 AM - 12:00 PM	2
Intermediate Wastewater Math (Session 2)	11/3/2021	10:00 AM - 12:00 PM	2
Introduction to Pumps (Session 2)	11/4/2021	9:00 AM - 12:00 PM	3
Laboratory Analyses - Solids	11/18/2021	8:30 AM - 11:30 AM	3
Laboratory Analyses - Bacteria	12/2/2021	8:30 AM - 11:30 AM	3

INDUSTRIAL GRADES 1 – 2

Class name	Fall 2021		
	Date	Time	TCHs
Introduction to Industrial Wastewater Treatment	9/9/2021	9:00 AM - 12:00 PM	3
Massachusetts Wastewater Regulations and Certification Overview	9/14/2021	10:00 AM - 12:00 PM	2
Basic Wastewater Safety	9/15/2021	10:00 AM - 12:00 PM	2
Basic Wastewater Math (Session 1)	9/16/2021	9:00 AM - 12:00 PM	3
Basic Industrial Wastewater - Physical Chemical Treatment	9/22/2021	9:00 AM - 12:00 PM	3
Basic Wastewater Math (Session 2)	9/23/2021	9:00 AM - 12:00 PM	3
Basic Industrial Wastewater - Characteristics and Chemistry	9/29/2021	9:00 AM - 12:00 PM	3
Basic Industrial Wastewater - pH Neutralization	10/6/2021	9:00 AM - 12:00 PM	3
Basic Municipal Wastewater - Introduction to Wastewater Laboratory	10/12/2021	9:00 AM - 12:00 PM	3
Basic Industrial Wastewater Solids Handling and Filtration	10/13/2021	9:00 AM - 12:00 PM	3
Introduction to Pumps (Session 1)	10/28/2021	9:00 AM - 12:00 PM	3



RECOMMENDED COURSES
NEIW PCC Massachusetts Wastewater Operator Training (MWOT) Program

INDUSTRIAL GRADES 3 – 4

Class name	Fall 2021		
	Date	Time	TCHs
Sampling Techniques and Chain of Custody for a Wastewater Treatment Facility	10/7/2021	8:30 AM - 11:30 AM	3
Introduction to Pumps (Session 1)	10/28/2021	9:00 AM - 12:00 PM	3
Introduction to Pumps (Session 2)	11/4/2021	9:00 AM - 12:00 PM	3
Electricity, Motors, & Horsepower	11/10/2021	9:00 AM - 12:00 PM	3
Massachusetts Wastewater Regulations and Certification Overview	11/17/2021	10:00 AM - 12:00 PM	2
Advanced Industrial Wastewater Treatment Processes	11/24/2021	9:00 AM - 12:00 PM	3
Advanced Industrial Treatment Processes - Metals	12/1/2021	9:00 AM - 12:00 PM	3
Advanced Pumps and Hydraulics	12/8/2021	9:00 AM - 12:00 PM	3
Advanced Wastewater Sampling, Laboratory, & Microbiology	12/9/2021	8:30 AM - 11:30 AM	3
Advanced Wastewater Safety	12/15/2021	9:00 AM - 12:00 PM	3

COMBINED GRADES 5 & 6

Class name	Fall 2021		
	Date	Time	TCHs
Water Quality and Effluent Limitations for Wastewater Treatment NPDES Permitting	9/30/2021	8:30 AM - 11:30 AM	3
Sampling Techniques and Chain of Custody for a Wastewater Treatment Facility	10/7/2021	8:30 AM - 11:30 AM	3
Laboratory Analyses - pH and Total Residual Chlorine	10/14/2021	8:30 AM - 11:30 AM	3
Introduction to Collection Systems	10/20/2021	9:00 AM - 12:00 PM	3
Laboratory Analyses - Biochemical Oxygen Demand and Dissolved Oxygen	10/21/2021	8:30 AM - 11:30 AM	3
Intermediate Wastewater Math (Session 1)	10/27/2021	10:00 AM - 12:00 PM	2
Intermediate Wastewater Math (Session 2)	11/3/2021	10:00 AM - 12:00 PM	2
Advanced Municipal Wastewater Treatment Technologies	11/9/2021	9:00 AM - 12:00 PM	3
Electricity, Motors, & Horsepower	11/10/2021	9:00 AM - 12:00 PM	3
Advanced Municipal Wastewater - Activated Sludge	11/16/2021	9:00 AM - 12:00 PM	3
Massachusetts Wastewater Regulations and Certification Overview	11/17/2021	10:00 AM - 12:00 PM	2
Laboratory Analyses - Solids	11/18/2021	8:30 AM - 11:30 AM	3
Advanced Municipal Wastewater - Process Control & Troubleshooting	11/23/2021	9:00 AM - 12:00 PM	3
Advanced Municipal Wastewater - Biological Nutrient Removal	11/30/2021	9:00 AM - 12:00 PM	3
Laboratory Analyses - Bacteria	12/2/2021	8:30 AM - 11:30 AM	3
Advanced Municipal Wastewater - Solids Handling	12/7/2021	9:00 AM - 12:00 PM	3
Advanced Pumps and Hydraulics	12/8/2021	9:00 AM - 12:00 PM	3
Advanced Wastewater Sampling, Laboratory, & Microbiology	12/9/2021	8:30 AM - 11:30 AM	3
Advanced Municipal Wastewater - Administration, Management, & Finance	12/14/2021	9:00 AM - 12:00 PM	3
Advanced Wastewater Safety	12/15/2021	9:00 AM - 12:00 PM	3
Basic Industrial Wastewater - pH Neutralization	12/16/2021	9:00 AM - 12:00 PM	3



RECOMMENDED COURSES NEIW PCC Massachusetts Wastewater Operator Training (MWOT) Program

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

FREE COURSES OFFERED BY BRISTOL COMMUNITY COLLEGE

Through a grant from the DESE Integrated Education & Training Program, BCC is able to offer the following water and wastewater courses at no charge for attending (students will still have to purchase course textbooks):

Section	Course Title	Credits
EGR 143.GRA	Conceptual Math for Environmental Technicians	3
EGR 145.STM	Computerized Systems in the Water Industry	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

Questions? Contact Robert Rak at Robert.Rak@bristolcc.edu.

OTHER TRAINING PROVIDERS IN NEW ENGLAND

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