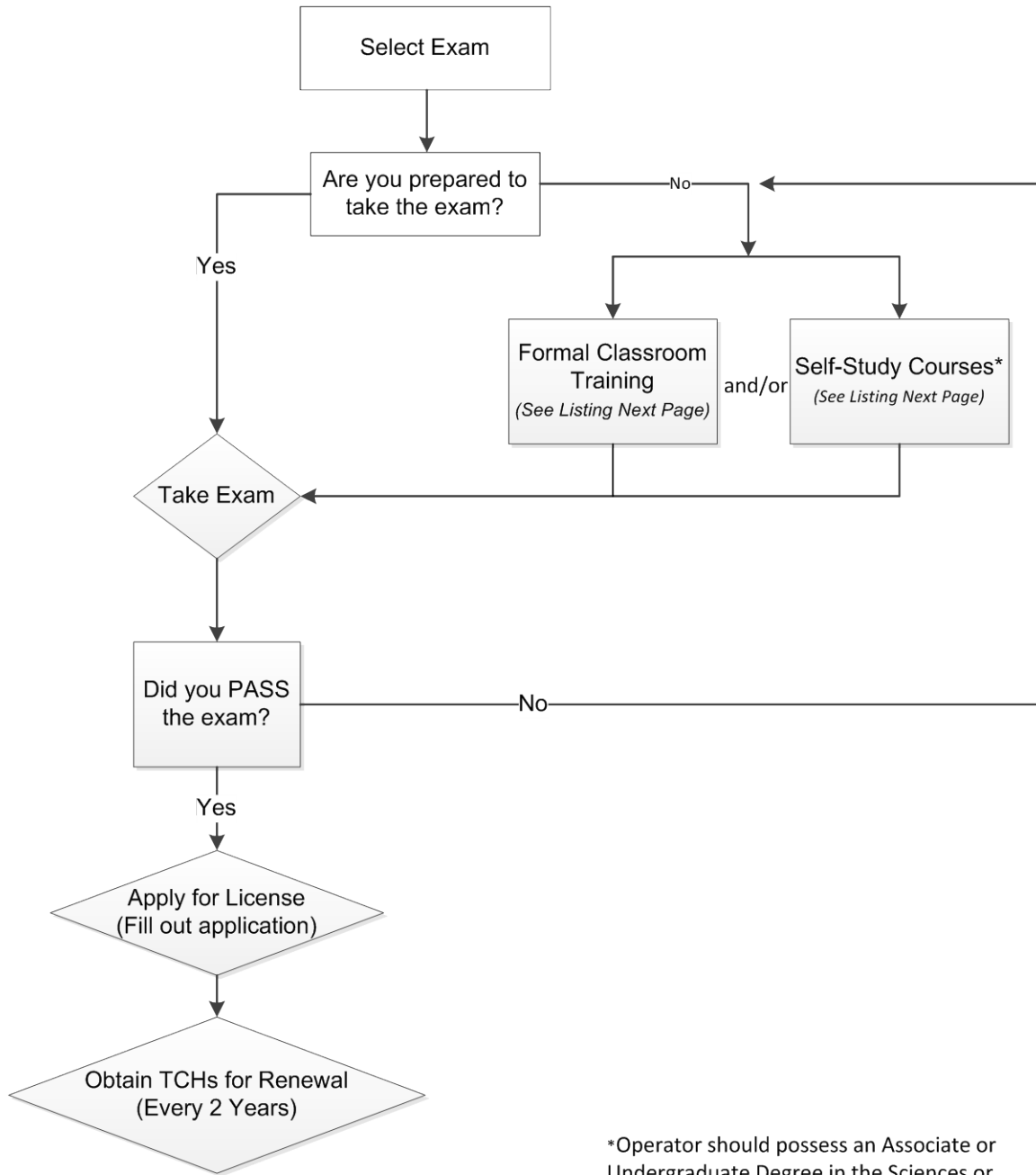


Recommended Preparation for a WWTP Operator's License Examination



*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

FALL 2020 REMOTE PROGRAM

Because of classroom size restrictions due to COVID-19, the Board of Wastewater Operator Certification has come up with a list of recommended online/remote training courses to prepare for the Grade 1, 2, 3, and 4 Municipal Exam and the Grade 1 and 2 Industrial Exam. The MWOT Program will be offered virtually this fall through NEIW PCC.

There are also a wide range of additional exam preparation opportunities (online, correspondence, manuals/book study, vendor training, YouTube videos, asking questions of experienced operators at your facility or through MAWEA). We understand it may take a combination of training approaches this fall to prepare for a wastewater certification exam.

We hope to return to in-person training, once it is safe to do so. If you know of additional courses that can supplement the courses listed below, please contact John Murphy of MassDEP (john.j.murphy@mass.gov, 617-352-3375).

LINK TO COURSES: Massachusetts Wastewater Operator Training Catalog at <https://portal.neiwpc.org/training-calendar.asp> or [Fall 2020 MWOT Catalog](#)

Recommended Courses to prepare for the Massachusetts Wastewater Operator Exam (Grade 1-4 – Municipal)

Basic Operation of Municipal WWTP

- Intro to Municipal Wastewater Treatment
- Intro to Industrial Wastewater Treatment
- Massachusetts Wastewater Regulations and Certification Overview
- Wastewater Centrifugal Pumps 101
- Wastewater Centrifugal Pumps 201
- Collection Systems 101
- Collection Systems 201
- Municipal Wastewater - Preliminary and Primary Treatment
- Activated Sludge Processes
- Introduction to Microbiology
- Introduction to Wastewater Laboratory
- Municipal Wastewater - Disinfection
- Wastewater Safety
- Municipal Wastewater - Solids Handling

Wastewater Math Courses (Grade 1M-2M)

- Wastewater Basic Math (Session 1)
- Wastewater Basic Math (Session 2)



- Wastewater Basic Math (Session 3)

Wastewater Math Courses (Grade 3M-4M)

- Applied Wastewater Math (Session 1)
- Applied Wastewater Math (Session 2)

Laboratory Procedures

- Water Quality and Effluent Limitations for Wastewater Treatment NPDES Permitting
- Sampling Techniques and Chain of Custody for a Wastewater Treatment Facility
- Laboratory Analyses - pH and Total Residual Chlorine
- Laboratory Analyses - Biochemical Oxygen Demand and Dissolved Oxygen
- Laboratory Analyses - Solids
- Laboratory Analyses - Bacteria

Recommended Courses to prepare for the Massachusetts Wastewater Operator Exam (Grade1-2 – Industrial)

Basic Industrial WWT

- Intro to Municipal Wastewater Treatment
- Intro to Industrial Wastewater Treatment
- Wastewater Centrifugal Pumps 101
- Wastewater Centrifugal Pumps 201
- Industrial Wastewater - Characteristics/Chemistry
- Industrial Wastewater - Physical Chemical Treatment
- Introduction to Wastewater Laboratory
- Industrial Wastewater - Solids Handling and Filtration
- Wastewater Safety

Wastewater Math Courses (Grade 1I-2I)

- Wastewater Basic Math (Session1)
- Wastewater Basic Math (Session 2)
- Wastewater Basic Math (Session 3)



Additional Training Opportunities.

(This is not a comprehensive list of all available wastewater operator trainings. There are many additional training providers that can be utilized for the above and below list of topics.)

TRAINERS FOR TYPICAL 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

OTHER NEW ENGLAND TRAINING PROVIDERS:

- Falcone Environmental Services
- NEWWTA
- Peterson School
- Practical Applications
- Tighe & Bond
- Wastewater Technology Trainers

Starting September 8th and running through December 18th Bristol Community College will be offering the following courses for free online (must register through Bristol Community College by 9/1/20, students are responsible for purchase of required books and manuals):

- EGR 143 Conceptual Math for Environmental Technicians
- EGR 145 Computer Systems in the Water Industry
- EGR 241 Clean Water Technology 1 (WW)
- EGR 242 Clean Water Technology 2 (WW)
- EGR 244 Basic Water Treatment (DW)
- EGR 246 Collection Systems (WW)
- EGR 249 Distribution Systems (DW)