



MWWA OPERATOR EXAM PREREQUISITE COURSE

Concepts & Practices of Advanced Water Treatment Live In-Person Training

MWWA Course ID #EXM-2012-07

This MA Board of Certification approved course is required for anyone wishing to take the Grade 3 or 4 Water Treatment license exams. The course is taught over a 6-week period and covers advanced treatment concepts, including: source water protection and management, water chemistry, treatment processes and troubleshooting, important regulatory requirements, water sampling and laboratory procedures, advanced water treatment math, equipment operation and maintenance, safety, security and administrative duties.

Learning Objectives:

- Analyze and evaluate source water protection strategies and best management practices.
- Apply water chemistry principles to explain and troubleshoot common challenges in water treatment processes.
- Understand and troubleshoot processes such as coagulation, filtration and disinfection.
- Perform sampling and laboratory procedures according to regulatory standards.
- Demonstrate proficiency in advanced water treatment mathematics.
- Review the importance of safety, security and administrative duties.

Students must achieve a passing score of 70 points through a combination of attendance (cannot miss more than 3 hours of the course), homework, midterm exam and final exam. Upon successful completion of this course, a "Certificate of Completion" will be issued along with a Certificate for up to 34 Training Contact Hours (TCH).

LOCATION: John Carroll Water Treatment Plant, 84 D'Angelo Dr., Marlborough
DATE: Tuesdays, March 4 – April 8, 2025
TIME: 7:30 AM – 3:00 PM *(There is a 30 minute break for lunch. Students are encouraged to bring their lunch.)*
INSTRUCTOR: Dan Laprade, P.E. (MWWA Training Coordinator)
COST: Course = \$900, This course requires the following two textbooks that can be purchased from MWWA:
"Water Treatment Plant Operations", Vol 1, 7th Ed., Sacramento State University, (\$100)
"Water Treatment Plant Operations", Vol 2, 7th Ed., Sacramento State University, (\$100)

Registrations must be done on-line (www.masswaterworks.org). If you need registration assistance, please email adminmwwa@masswaterworks.org or call 978-263-1388.

WITHDRAWALS AND REFUNDS: *(refunds are for the course fee only. No refund for textbooks)*

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| 1. Withdraw before the first class | Full refund |
| 2. Withdraw after first class | 50% refund |

John J. Carroll Water Treatment Plant
84 D'Angelo Drive, Marlborough, MA 01752



Important Facility Access Information:

All attendees will need to show a valid picture ID at the security gate. Parking is located to the right of the main building and the training room is located on the right upon entry to the building.

Photograph and Information Release:

Participation in this course constitutes an agreement by the attendee to allow the Massachusetts Water Works Association (MWWA) to use and distribute the participant's image in any MWWA-related publication or social media site.