

Agenda: Water Treatment Operator 1

In Partnership with American Water Works Association



This online eLearning course is being offered in partnership with American Water Works Association.

Summary - Students can refresh their skills while learning how to prepare for the certification test. This course introduces the basic functions and responsibilities of Level 1 operators, as well as water treatment processes, their uses, characteristics, sizing, and calculations and analyses of these processes. This course will take a minimum of 12-18 hours per week of online learning activities for five weeks.

Estimate to Complete - 60 hours

Week 1 - During this first week, the course goals will be provided including learning objectives. Definitions of key terms will be reviewed and how water flows from the source to your tap will be demonstrated. Water treatment regulations, past and present, will be discussed along with contaminants. Then, the topics will build on each other starting with hydrology, then source water and treatment, and basic chemistry. Safety will be covered and the week concludes with a couple of interactions.

Week 2 - Week 2 begins with an exploration of treatment processes. Water sources, including reservoirs and groundwater, will be discussed. The week concludes with a module featuring well drilling.

Week 3 - Week 3 starts with basic math and chemistry. Treatment plants and processes will be introduced leading to a discussion about microbes, chlorine disinfection, and safe handling of chlorine. Throughout this week, there will be various interactions.

Week 4 - Week 4 begins to examine physical treatment processes and associated equipment including filters and pumps. Water sampling, a key method to monitor treatment processes, is discussed in this week's modules. The results from sampling are used to complete Monthly Operations Reports which concludes this week.

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Week 5 - Week 5 opens with an introduction to electricity and motors. This provides the groundwork to discuss maintenance of equipment and corrosion control. Then, the operator's role is examined in regards to public relations and customer interactions.

Final Assessment - Students need to answer 70% of the questions correct to pass the final assessment and receive credit for the Water Treatment Operator 1 course.

WTO 1: End of Course Survey (not included in est. 60 hours) - After passing the final assessment, students are directed to an end of course survey to evaluate the learning experience and provide license information to ensure the information in the LMS is correct.

Course Schedule: Water Treatment Operator 1

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Estimate to Complete - 60 hours

Module Title	Average Time to Complete
Week 1	12 hours
Week 2	12 hours
Week 3	12 hours
Week 4	12 hours
Week 5	12 hours
Final Assessment	1 hour
WTO 1: End of Course Survey (not included in est. 60 hours)	Not applicable