COURSE TITLE
Water Industry Ground Water Treatment (3813)

COURSE DURATION
1 hour

OVERVIEW
Untreated or inadequately treated ground water poses a serious problem in public water supply systems. The U.S. Environmental Protection Agency (EPA) has estimated that about 70 percent of ground water systems provide either untreated or inadequately treated ground water. This means that 20 million people receive water that has not been disinfected—70 million if we include those who receive water that has not been properly treated by 4—log inactivation or removal of viruses. According to the U.S. Centers for Disease Control and Prevention (CDC), ground water is responsible for the majority of waterborne disease outbreaks.

This training course has 9 learning modules with a 10-question exam.

PREREQUISITES
No prior knowledge is required.

BEHAVIORAL OBJECTIVES
After successfully completing this course, you will be able to:

- Discuss ground water, including its abundance, its relation to the hydrologic cycle, and its various uses by public water systems.
- Explain the various regulations related to the treatment of ground water by public water systems.
- Discuss the disinfection and chlorination processes used in ground water systems.
- Describe the different constituents that can occur in ground water and their corresponding treatment strategies.

COURSE OUTLINE

- Introduction
- Ground Water Sources
- Ground Water Rule
- Disinfection
- Chlorination
- Chlorination Devices
- Chlorine Safety
- Other Disinfectants
- Inorganic Constituents
- Disinfection Byproducts
- Summary

AVAILABILITY
This course is offered online and is available 24 hours a day, 7 days a week, 365 days a year.

TRAINING METHODOLOGY & EVALUATION
This course is self-paced online training. Review exercises and case studies reinforce the content, and students are evaluated with a multiple choice exam. Upon completion, students are prompted to submit a course evaluation.

REFERENCES
N/A