

**COURSE TITLE**

Water Industry Filtration Basics

**COURSE DURATION**

1 hour

**OVERVIEW**

Water quality varies from location to location, and the definition of potable water can vary with locality. Most water treatment facilities use filtration as an important step in their water treatment processes, and some smaller municipalities might use a slow sand filtration as their only treatment method.

This course will examine the treatment of water via filtration: what is filtered out of the water we drink, what are the different types of filters available, and how do those filtration methods work? We will also survey the regulatory requirements for potable water as set forth by the EPA, examine some of the most common pollutants, and look at a few case studies regarding specific filtration problems and the unusual solutions that have sometimes been reached.

This training course has 6 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:

- Explain why water filtration is necessary to ensure a safe drinking water supply.
- Describe the various pollutants which are filtered from drinking water
- Describe the types of filtration commonly used.
- Understand the laws surrounding drinking water and water processing.

**COURSE OUTLINE**

- Introduction – 4 min
- Why Do We Filter? – 11 min
- What Do We Filter? – 5 min
- How Do We Filter Water? – 6 min
- Small Debris Removal and TDS – 10 min
- Sand Filtration – 11 min
- Membrane and Cartridge Filtration – 10 min
- Conclusion – 3 min

**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.