

Course Description Sheet

COURSE TITLE

Backflow Prevention Methods

COURSE DURATION

1 Hour

OVERVIEW

This course is intended to introduce and inform users of methods to prevent backflow. It is an introductory course and is intended to be the second of two courses on backflow and cross-connection control offered in this training program.

PREREQUISITES

No prior knowledge is required.

BEHAVIORAL OBJECTIVES

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

- List and explain the programmatic and physical methods for backflow prevention.
- Identify backflow prevention assembly types.
- Identify backflow prevention schematics.
- Explain backflow prevention operations.
- List backflow prevention advantages, disadvantages, and applications.

COURSE OUTLINE

Chapter	Minutes
Introduction	4
Backflow Prevention	10
Maintaining Minimum System Pressure	6
Identifying and Assessing the Degree of Hazard	7
Identification of Hazard Types	3
Types of Backflow Prevention Devices	20
Backflow Prevention Assembly Installation and Maintenance	8
Conclusion	2
Course Total	60

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 reinforce the content, and students are evaluated with a multiple-choice exam. Upon completion, students are prompted to submit a course evaluation.

REFERENCES

Water System Design Manual, Washington State Department of Health, DOH Publication 331-123, Revised June 2020

Water Systems Planning Guidebook, Washington State Department of Health, DOH Publication 331-068,

Revised August 2020

USEPA, Drinking Water Requirements for States and Public Water Systems, November 2021

USEPA, Drinking Water Rules – including Safe Drinking Water Act (and amendments)

Water Quality in Distribution Systems, American Water Works Association, Manual of Water Supply Practices, M68, 2017

Water Distribution System Operation and Maintenance, Office of Water Programs California State University and USEPA.

Centers for Disease Control and Prevention, Surveillance for Waterborne-Disease Outbreaks -- United States, 1995-1996

Centers for Disease Control and Prevention, Surveillance for Waterborne-Disease Outbreaks -- United States 2009-2011

Cross Connection Control for Small Water Systems, Washington Department of Health, Office of Drinking Water, Publication 331-234

Small Water System Management Program Guide Washington Department of Health, Office of Drinking Water, Publication (331-134)

Noncommunity Small Water System Management Program Guide Washington Department of Health, Office of Drinking Water, Publication (331-474)

Responding to a pressure-loss event Washington Department of Health, Office of Drinking Water, Publication (331-338)

Drinking Water Warning: Loss of pressure Washington Department of Health, Office of Drinking Water, Publication (331-493)

Drinking Water Warning: Backflow Incident Washington Department of Health, Office of Drinking Water, Publication (331-495)

Coliform Public Health Advisory Packet Washington Department of Health, Office of Drinking Water, Publication (331-260)

Emergency Disinfection of Small Systems Washington Department of Health, Office of Drinking Water, Publication (331-242)

Potential Contamination Due to Cross-Connections and Backflow and the Associated Health Risks, September 2001.

AWWA M14 Recommended Practice for Backflow Prevention and Cross-Connection Control, Fourth Addition, 2015

Manual of Cross-Connection Control by the University of Southern California Foundation for Cross-

