

COURSE TITLE: Advanced Backflow Prevention Internet Course 1 Hour

HOURS OF CREDIT: 60 Minutes

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PVD1046

COURSE DESCRIPTION: This course will provide contractors, building code administrators and inspectors with one hour of Advanced Building Code training, focusing on backflow prevention and cross-connection control. A Power Point online presentation will be used to discuss the potable water supply and the importance of protecting it. The presentation will define cross connections, teach what causes cross-connections and how to prevent them. The course will define and teach how to prevent backflows. The presentation will describe in detail what is involved in backflow prevention and the different types of backflow preventers. The power point presentation will include photos of a backflow preventer being installed. The course will describe what is involved in testing backflow preventers, and repairing backflow preventers. The power point presentation will show photos of a backflow preventer being taken apart, and cleaned.

LEARNING OBJECTIVES: This course, using a power point presentation, will teach contractors, building code administrators and inspectors about protecting the potable water supply, cross-connections, backflows, backflow prevention, types of backflow preventers, testing backflow preventers, and repairing backflow preventers. After completing this course the student will understand the important role of backflow prevention in protecting the potable water supply.

COURSE OUTLINE:

Potable Water Supply

Power Point slides 1-14 will give Florida Building Code, Plumbing 2010 definitions of potable water, water supply system, public water main, riser, water distribution pipe, water service pipe, plumbing fixture, plumbing appurtenance, contamination, individual water supply, bored well, drilled well, driven well, and dug well. In addition, code section 608.1 will be given. This portion of the course will teach the student to understand some of the components of the potable water supply system.

Cross-connections

Power Point slides 15- 37 will give Florida Building Code, Plumbing 2010 definitions of cross connection, non-potable water, faucet, drainage system, swimming pool, supply fitting, waste fitting, reclaimed water, fixture supply and plumbing appliance. In

addition, code sections 608.6, 608.15.4.2, and 608.2 will be given. This portion of the course will teach the student to understand cross-connections and how they are created.

What is a Backflow?

Power Point slides 38 – 59 will give Florida Building Code, Plumbing 2010 definitions of backflow, backflow connection, backpressure, flow pressure, temperature and pressure relief (T&P) valve, water heater, backsiphonage, and water main. In addition, code section 608.16.2 will be given. This portion of the course will teach the student to understand what a backflow is, the different types of backflow, and some of the ways backflows are created.

Backflow Prevention

Power Point slides 60 – 77 will give Florida Building Code, Plumbing 2010 definitions of backflow preventer, flood level rim, water outlet, air gap, and critical level. In addition, code sections 608.3, 608.13, 608.13.1, and 608.8 will be given. This portion of the course will teach the student to understand the difference between mechanical backflow prevention and a method of backflow prevention. The student will also learn about air gaps and the importance of color coding piping systems.

Types of Backflow Preventers

Power Point slides 78 – 100 will give Florida Building Code, Plumbing 2010 definitions of vacuum, vacuum breaker, reduced pressure principle backflow preventer, pressure and relief valve. In addition, code sections 608.13.6, 608.13.5, 608.13.7, 608.16.4, and 608.13.2 will be given. This portion of the course will teach the student to understand the different types of backflow preventers, their differences and the conditions in which they can be used.

Testing Backflow Preventers

This portion of the course will teach the student using Power Point slides 101 – 112 the different methods used to test backflow preventers and which backflow preventers are testable.

Repair of Backflow Preventers

Power Point slides 113 – 127 will show the student a reduced pressure principle backflow preventer being repaired.

Quiz

COURSE TIMELINE:

Introduction	8 minutes
Cross Connections	8 minutes
What is a Backflow?	8 minutes

Backflow Prevention	10 minutes
Types of Backflow Preventers	10 minutes
Testing Backflow Preventers	5 minutes
Repair of Backflow Preventers	3 minutes
Quiz	8 minutes
Total	60 minutes

METHOD OF PRESENTATION: This is an internet course using a Power Point presentation.

METHOD OF EVALUATION: A short quiz will be given after the material is presented. Students will also be able to email any questions they may have.