



AMERICAN BACKFLOW PREVENTION ASSOCIATION

AMERICAN BACKFLOW PREVENTION ASSOCIATION CROSS-CONNECTION CONTROL SPECIALIST NEED TO KNOW CRITERIA

I. Definitions

- A. Backflow Prevention & Cross-Connection Control Terminology

II. Cross-Connection Control Program Elements

- A. Legal Authority
- B. List of Approved Backflow Prevention Assemblies
- C. Testing and Repair Program
- D. Trained Personnel
- E. Conducting Survey
- F. Record Keeping
- G. Public Education

III. Regulations

- A. Federal
- B. State
- C. Local

IV. Responsibilities

- A. Water Supplier
- B. Health Agencies
- C. Federal Government
- D. State
- E. Plumbing Inspection
- F. Tester
- G. Consumer

V. Hydraulics

- A. Pressure
- B. Flow Rate
- C. Temperature

VI. Survey

- A. Prioritize Customer List
- B. Review of Drawings and Plans
- C. Contact the Water User

- D. Evaluate Water Usage
- E. Assign Protection
- F. Assure Compliance

VII. Water Service Types

- A. Critical Services
- B. Combined Services
- C. Multiple Services
- D. Fire Sprinkler Services
- E. Irrigation Services
- F. Restricted or Classified Services
- G. Single and Multiple Family dwellings
- H. Industrial / Commercial Services
- I. Temporary Services

VIII. Methods and Assemblies

- A. Reduced Pressure Principle Backflow Prevention Assembly
- B. Pressure Vacuum Breaker Backflow Prevention Assembly
- C. Spill-resistant Vacuum Breaker Backflow Prevention Assembly
- D. Double Check Valve Backflow Prevention Assembly
- E. Atmospheric Vacuum Breaker
- F. Airgap

IX. Drawings & Plans

- A. As-Builts
- B. Plan reading
- C. Isometrics and Symbols

X. Record Keeping

- A. Tester / Repair Program
- B. Survey Documents

XI. Public Relations



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AMERICAN BACKFLOW PREVENTION ASSOCIATION CROSS-CONNECTION CONTROL SPECIALIST TRAINING INFORMATION

This outline was compiled by the American Backflow Prevention Association Certification Committee. The Certification committee was assigned the task to develop a national consensus of what a Cross-Connection Control Specialist needs to know.

This outline is offered as a guide to assure that a Cross-Connection Control Specialist course covers all of the pertinent information.

TRAINING INFORMATION

Course Focus:

The focus of this course shall be to develop skills and knowledge for a Cross-Connection Control Specialist. A working knowledge of the principles of backflow prevention program management must be demonstrated. Recognizing proper backflow prevention assembly application, installation and operation is stressed. Complete understanding and ability to read and understand field test data for all backflow prevention assemblies is required. Record keeping and program responsibilities are a primary focus.

Student Prerequisites:

The student should have knowledge of hydraulic principles and laws, along with plumbing code requirements. Reading, math and mechanical skills are also required. Student shall possess a valid ABPA Backflow Prevention Assembly Tester Certificate.

Student Contribution:

Full attendance at all sessions is required for satisfactory completion of this course.

Course Evaluation:

A passing grade shall be achieved.

INSTRUCTOR INFORMATION

The instructor for this course should meet the following condition:

- 1.) Should be a certified backflow prevention assembly tester in the jurisdiction he/she wishes to teach in for at least two (2) years, and should currently maintain a valid backflow prevention program manager/specialist certificate from a recognized certification program.
- 2.) Should have a teaching certificate where applicable.
- 3.) Should have at least three (3) years of experience in the cross-connection control field.
- 4.) The instructor should set the lesson plan to cover adequately all points in the need to know criteria. The need to know criteria represents the minimum need to know requirements for the student. The instructor of record should personally present the majority of the course instruction. Outside or guest speakers should be limited. The instructor of record and all others shall present a generic or unbiased presentation. Teaching aids should be used to augment the lecture and not replace it.

RESOURCE MANUALS

The following list of resource manuals is presented for reference purposes only. ABPA does not endorse the use of or preference of one manual over another. The list is presented to show manuals that are commonly used. Resource manuals are periodically updated, be sure you use the most current edition.

CROSS-CONNECTION CONTROL MANUAL- United States Environmental Protection Agency, EPA /570/9-89-007 February 2003.

RECOMMENDED PRACTICE FOR BACKFLOW PREVENTION AND CROSS CONNECTION CONTROL –M14-3rd Edition, American Water Works Association (2004).

MANUAL OF CROSS CONNECTION CONTROL – Current Edition, University of Southern California, Foundation Cross Connection Control & Hydraulic Research.

CROSS CONNECTION CONTROL MANUAL-ACCEPTED PROCEDURE & PRACTICE 6th Edition Pacific Northwest Section AWWA (December 1995).

BACKFLOW PREVENTION THEORY AND PRACTICE – University of Florida, TREEO Center 2nd Edition - 2004.