Instructional Objectives Checklist

Repairer Course

Course Outline

1. Introduction
   Types of back flow prevention assemblies and devices
   Application and installation
   Repairer Responsibilities

2. Definitions, Vocabulary and Terminology pertaining to:
   Backflow prevention assemblies
   Backflow prevention devices
   Hydraulics
   Plumbing and cross-connection control industry

3. Hydraulics and Science pertaining to:
   Backsiponage
   Backpressure
   Atmospheric pressure
   Absolute pressure
   Gauge pressure
   Backflow
   Thermal expansion
   Venturi Principle

4. Knowledge and Identification of the following:
   Listing agencies
   Testing laboratories
   Professional associations
   Applicable codes, laws, rules
   Standards organizations

5. Parts Terminology and Identification for these BF Assemblies & Devices
   Air gaps
   Reduced pressure principle assemblies
   Pressure vacuum breakers
   Atmospheric vacuum breakers
   Double check valve assembly
   Reduced pressure detector assembly
   Double check detector assembly
   Dual check valve devices
   Dual check valve with atmospheric vent devices
   Lubricants
   Parts (factory approved)
6. Assembly Test Gauge Equipment - Knowledge & Operation
   Differential pressure gauge
   Multi-purpose transducer
   Sight tube
   Gauge maintenance

7. Test Procedures for Backflow Prevention Assemblies
   Reduced pressure principle assembly
   Pressure vacuum breaker
   Double check valve

8. Repair Knowledge & Troubleshooting Backflow Prevention Assemblies
   Reduced pressure principle assemblies
   Pressure vacuum breakers
   Dual check valve assemblies
   Components
   Check valves
   Relief valve
   Air inlet
   Test cocks
   Shut-off valves

9. Documentation of Information
   Field test forms
   Physical assembly identification
   Code compliance/installation
   Code compliance/approved assembly
   Information distribution
   Documentation

10. Repairer Responsibilities
    Education
    Notification of premise occupants, owner
    Notification to proper authorities (fire dept., etc)
    Liability
    Certification revocation

11. Safety
    Confined spaces
    Dress
    Use of equipment
    Security for Backflow Prevention Assemblies
    Applicable rules and regulations as specified by OSHA

I verify that the above mentioned instructional objectives have been covered in this course of instruction.