

# **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:**
  - Backsiphonage**
  - 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.

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**SIGNATURE**

**DATE**