

Instructional Objectives Checklist for Cross Connection Control Surveyor Course

1 Introduction

- Types of backflow prevention assemblies and devices**
- Application and installation**

2 General knowledge pertaining to:

- Consensus standards writing organizations**
- Listing agencies**
- Reading blueprints**
- Codes and regulations from Federal, State and local levels**
- Testing laboratories**
- Professional associations**

3 Hydraulics and Science pertaining to:

- Backflow**
- Backpressure**
- Backsiphonage**
- Cavitation**
- Differential pressure**
- General knowledge of testing and trouble shooting**
- Rigging (weight load)**
- Special tool requirements**
- Spring containment**
- Thermal expansion**
- Torque requirements**
- Turbulence**
- Types of fasteners**
- Vacuum**
- Venturi Principle**

4 Safety precautions and hazards during cross connection control surveys

- Animals and insects**
- Confined spaces**
- Electricity**
- General safety**
- Vehicle Traffic**

5 Knowledge of common, potential, recurring and protected cross connections found within:

- Funeral homes, general industries, medical facilities, offices, restaurants, etc.**

6 Product performance knowledge:

- Assembly working pressure (minimum and maximum)**
- Assembly working temperature (minimum and maximum)**
- Backflow, backpressure and backsiphonage**
- Continuous pressure**
- Degree of hazard**
- Installation with respect to device orientation, direction of flow and elevation**
- Local codes**
- Pressure loss**

- 7 Parts, terminology & identification, and application & installation for the following:**
- Air Gap (ANSI A112.1.2)**
 - Atmospheric Type Vacuum Breakers (ASSE 1001)**
 - Anti-siphon Fill Valves (Ballcocks) for Gravity Water Closet Flush Tanks (ASSE 1002)**
 - Hose Connection Vacuum Breakers (ASSE 1011)**
 - Backflow Preventer with Intermediate Atmospheric Vent (ASSE 1012)**
 - Reduced Pressure Principle Backflow Preventers (ASSE 1013)**
 - Double Check Backflow Prevention Assemblies (ASSE 1015)**
 - Vacuum Breaker Wall Hydrants, Freeze Resistant, Automatic Draining Type (ASSE 1019)**
 - Pressure Vacuum Breaker Assembly (ASSE 1020)**
 - Drain Air Gaps for Domestic Dishwasher Applications (ASSE 1021)**
 - Backflow Preventer for Beverage Dispensing Machines (ASSE 1022)**
 - Dual Check Backflow Preventers (ASSE 1024)**
 - Dual Check Valve Type BF for Carbonated Beverage Dispensers (ASSE 1032)**
 - Laboratory Faucet Backflow Preventers (ASSE 1035—current edition)**
 - Reduced Pressure Detector Fire Protection Backflow Prevention Assembly (ASSE 1047)**
 - Double Check Detector Fire Protection Backflow Prevention Assemblies (ASSE 1048)**
 - Hose Connection Backflow Preventer (ASSE 1052)**
 - Spill Resistant Vacuum Breaker (ASSE 1056)**
- 8 Conducting a survey**
- Actions taken prior to conducting a cross connection control survey**
 - Notification to proper authorities**
 - Notification to premise occupants**
 - Display proper identification**
- 9 Conducting a survey - Safety inspection**
- Field evaluation for safety hazards regarding Federal, State and local safety regulations**
 - Confined spaces – ventilation, access, oxygen content**
 - Chemical, electrical or flammable hazards**
 - Hazards related to elevation of devices**
 - Hazards to the surveyor and other persons**
 - Security for Backflow Prevention Assemblies**
- 10 Conducting a survey - Checklist**
- Complete a cross connection control survey checklist which includes systems identification, assembly and device locations and potential and actual cross connections**
 - Record the physical identification of backflow prevention assemblies including:**
 - type of device, manufacturer, model number, serial number, size, location, type of shut off valves, building address, observations**
 - Connection control surveyor data including: surveyor’s printed name and signature, surveyor’s identification, and date and time of cross connection control survey.**
- 11 Conducting a survey - Documentation**
- Review of the actions taken after completing a cross connection control survey inspection:**
 - Completion the proper documentation.**

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

SIGNATURE

DATE