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