Instructional Objectives Checklist

1. Introduction
   Types of cross-connections, definitions
   Historical background
   Plumbing water distribution
   Plumbing cross-connections
   Cross-connection incidents
   Industry and public health significance of cross-connections

2. Drinking Water Regulations
   Safe Drinking Water Act
   Primary and secondary standards and MCL's
   Toxicology

3. Cross connection programs
   Responsibilities (Purveyor, Tester, Surveyor, Repairer)
   Cross-connection control surveys
   Security for Backflow Prevention Assemblies

4. Definitions, vocabulary & terminology pertaining to:
   backflow preventers
   devices
   hydraulics
   plumbing & cross-connection control industry

5. Hydraulics & science pertaining to:
   backsiphonage
   backpressure
   atmospheric pressure
   absolute pressure
   gauge pressure
   backflow
   thermal expansion
   Venturi principle

6. Laws, rules, regulations, codes - federal, state & local levels:
   EPA
   City ordinances
   State or Model Plumbing Code
   State, County & City Ordinances

7. Knowledge & identification of the following:
   listing agencies
   testing laboratories
   professional associations

8. Assembly test gauge equipment - knowledge & operation

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9. Parts, terminology & identification, and application & installation for the following:
   Air Gap
   Atmospheric Type Vacuum Breakers (ASSE 1001)
   Reduced Pressure Principle Backflow Preventers (ASSE 1013)
   Double Check Backflow Prevention Assemblies (ASSE 1015)
   Pressure Vacuum Breaker Assembly (ASSE 1020)
   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)
   Backflow Prevention Assembly Field Test Kits (ASSE 1064)

10. Test Procedures for Backflow Prevention Assemblies:
   Reduced Pressure Principle Backflow Preventers (ASSE 1013)
   Double Check Backflow Prevention Assemblies (ASSE 1015)
   Pressure Vacuum Breaker Assembly (ASSE 1020)
   RPDF (ASSE 1047)
   DCD (ASSE 1048)

11. Troubleshooting backflow prevention assemblies, failures & causes:
   Reduced Pressure Principle Backflow Preventers (ASSE 1013)
   Double Check Backflow Prevention Assemblies (ASSE 1015)
   Pressure Vacuum Breaker Assembly (ASSE 1020)
   RPDF (ASSE 1047)
   DCD (ASSE 1048)
   Components
   Check valves
   Relief valve
   Air inlet
   Test cocks
   Shut-off valves

12. Documentation of information
13. Tester responsibilities
14. Safety

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