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

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.

SIGNATURE DATE