Hurry! Classes are Limited:

WHY NOW? Starting January 2013 Public Water Systems must identify inadequately protected high hazard cross connections in the water system in inappropriate locations or that lack annual testing. These include: chemical dispensers, and/or feed lines, i.e. licensed food, beverage, & lodging establishments, and food processing facilities; car wash pump feed lines; and health care facilities, providers, and funeral parlors, i.e. air conditioning, fire protection, and hazardous waste systems.

One Day Sessions—8 hours.....$125
May 8, 2017 and September 18, 2017
(Limited to 5 attendees—Water Operations Specialists or Cross Connection Program Administrators Only)

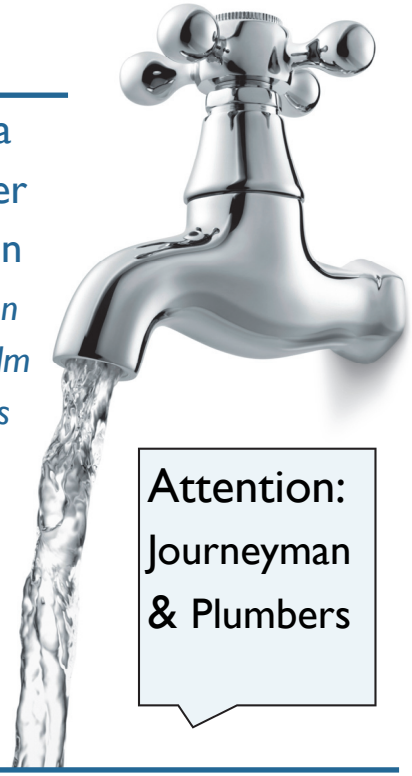
-COMBINED- Backflow Tester Certification Class ASSE 5110 & Rebuilder Certification ASSE 5130—
.....$1200
May 8-15, 2017—and September 18-25, 2017
Limited to 20 attendees—prerequisites: minimum 5-years of industry related experience for Tester Course. Must be journeyman or plumber for Rebuilder Course. ASSE5110 Tester Course test is on May 12, 2017 and September 22, 2017 (Friday) and ASSE5130 Rebuilder Course test is May 15, 2017 and September 25, 2017 (Monday).

Classes are approved for 12 CEU Credits (8 Code and 4 Tech) by the Minnesota Dept. of Labor and Industry.

Class Location:
Soderholm & Associates
7150 143rd Ave NW
Ramsey, MN 55303
Driving directions:
http://soderholmassociates.com/minneapolis-facility

Hurry and register today! Agenda and registration details on inside of brochure. Call 800-367-6792 for more details.

Minnesota Rural Water Association
in conjunction with Soderholm & Associates present:



-COMBINED-
Backflow Tester Certification Class ASSE 5110 & Rebuilder Certification ASSE 5130

Hurry don't miss this opportunity to get your training. *Save time and money with this combined class!* Details inside.

MN RURAL WATER ASSOCIATION
SODERHOLM & ASSOCIATES

Minnesota Rural Water Association *in conjunction with Soderholm & Associates* announce 2017 training opportunity.

AGENDA for each day of classes……..

Day One:

8:00-10:00am—Introduction to cross connection control & backflow prevention.

- Intro DVD on cross connection control – Water purveyor's responsibility.
- Public health significates.
- Why to such hazards exist?
- Causes of backflow.
- Cross connection control surveys compared to assembly testing. Retrofit programs.

10:15am—Break

10:15-11:00am—Backflow prevention theory of backsiphonage. Terms involved with backflow and cross connections.

11:00-12:00am—Introduction to test kits.

- 3 and 5 valve kits, digital kits, water column.
- How to care and maintain kits—calibration requirements, test forms, and demo into on test methods.

Lunch Break– We will watch the "Follow the flow" DVD on CCC surveys (entertainment).

1:00-2:00pm—Introduction to ASSE 1013 (RPZ), 1015 (DC), 1020 (PVB), 1056 (SVB).

- How they operate.
- Correct applications – degree of hazard.
- Correct installation.

2:15pm—Break

2:15-4:30pm—Testing lab workshop.

- Correct testing practices.
- Demo ASSE 1013 (RPZ), ASSE 1015 (DC), ASSE 1020 (PVB), ASSE 1056 (SVB) test.
- Hands on with students in pairs with instructors help.

4:30pm—Program Development and Survey practice quiz.

5:00pm—Open class room discussion and review the day.

Day Two:

7:00-9:00am—Review of ASSE 1013 (RPZ) & ASSE 1015 (DC) in detail . Review of ASSE 1047 & 1048 in detail

9:00-10:30am—Review backflow prevention devices selection and how they work: ASSE 1001, 1002, 1011, 1012, 1019, 1022,1032,1024, 1035,1052,1037.

10:30-12:00pm—Discussion about MN and I&L code and MN MDH code.

- What does the code say about correct installations and applications?
- How does the MDH influence the utility to have a CCC program?

1:00-2:30pm—Introduction to the ASSE 1056 (SVB) and ASSE 1020 (PVB).

- How do they operate?
- Correct applications- avoid backpressure.
- Correct installation- height 12" above highest point of use, outdoor & indoor applications.

2:30pm—Break

2:45-4:30pm—Testing lab workshop.

- Correct testing practices.
- Demo ASSE 1056 (SVB) & ASSE 1020 (PVB) test
- Hands-on with students in pairs with instructors help.

4:30-5:00pm—Open class room discussion and review the day.

Day Three:

7:00-8:00am—Review of ASSE 1056 (SVB), and ASSE 1020 (PVB) in detail.

8:00-10:00am—Cross connection control program. Federal-State-Local requirements.

10:00-11:00am—Safety & protecting the tester and owner.
11:15-12:00am—Liability of testers, installers, water operator
1:00-4:30pm—Hands on testing for all four assemblies. Students should be testing without instructions by this time.
4:30-5:00pm—Open classroom discussion and review the day.

Day Four:

7:00-10:00am—Introduction to troubleshooting and repair.

- Relationship between malfunction symptom and root cause. Suggested methods to diagnose cause and suggested repair kits and accessories.

10:00-12:00pm—RPZ troubleshooting exercise. 1/2 of students dismantle and foul assemblies and 1/2 students in classroom for TS understanding.

1:00-5:00pm—Continue troubleshooting exercise with DC, PVB, and SVB.

Day Five:

7:00-5:00pm—Review information from binder and Q&A. Begin hands-on testing with proctor and students with class of 20, there are 2 proctors to divide the class.

Day Six:

7:00-8:00am—Review information from binder and Q&A Repair.
9:00am—Start practical test repair.
4:00pm—Start written repair class test.
5:00pm—Wrap up and final adjournment.

REGISTER & PAYMENT ONLINE AT:
www.mrwa.com/wfcc.html

YOU MUST REGISTER AND MAKE PAYMENT 10 DAYS PRIOR TO THE TRAINING SESSION.

***Cancellation policy**: MRWA will not issue any refunds if a cancellation occurs within 2 weeks of a class in writing only.*
No-show policy penalty will be tuition loss.

Questions? Call 800-367-6792 or mrwa@mrwa.com.