

40 hour Cross Connection Control Assembly Tester Certification Course

WRWA in conjunction with Hydro Designs Inc, will offer for the first time, a 40 hour course for cross connection control assembly tester certification. This class will give participants the training and examination requirements for a certified backflow equipment tester in Wisconsin. Participants will have an opportunity to work hands-on with assemblies as they learn how to test and repair the units. This class is open to anyone who is interested in learning how to inspect, test and repair these assemblies. The class will cover:

- Backflow Prevention
- Cross Connection Control Programs
- Hands-on repair of assemblies
- State Regulations

Class Dates: April 11-15, 2011
Location: WRWA Training Center, Plover, WI
Cost: \$750 for members / \$775 for Non-Members

Instructors:

Gary McLaren - Backflow theory and code sessions
Rich Davison - Testable assembly sessions



Located at WRWA training facility –
Plover, Wisconsin



WISCONSIN **Rural Water** ASSOCIATION

HydroDesigns
Cross-Connection Control

Cross Connection Control Assembly Tester Course

Detailed Course Outline:

Monday - 9 hours

- 8:00 – Welcome and introduction to course
- 8:15 - Introduction to cross connection control and backflow prevention.
Purpose and Scope
Why do cross connections exist?
Case histories on cross connections.
- 9:00 – USC introduction to cross connection control DVD
- 9:15 – Break (5)
- 9:20 – Theory of Backflow
Understanding of water pressure
Siphon Theory
- 10:00 – General overview to Methods, Devices, and Assemblies to prevent backflow.
- 11:00 – Break (15)
- 11:00 – Course Binder Review Sections G,H,I ,J K,L,M,N,O
- 12:00 – Lunch
- 1:00 – Test procedures and understanding of test kits
Description of test methods
Demonstration of test gauge operation (3 & 5 valve)
- 1:30 - Detailed operation review of reduced pressure principal assembly (RPZA) and Double check valve assembly (DCVA).
- 2:00 – Test Documentation
Information to be recorded
Submittal to regulators, purveyors, and owners
- 2:30 – Break (15)
- 2:45 – Testing Lab workshop.

Demonstration of testing for RPZA & DCVA
- 3:15 – Hands on practice testing (with instructor supervision, in teams)

4:15 – Break (15)

4:30 – Day one Quiz

5:00 – Adjourn

Tuesday – 9-hours

- 8:00 – Review of cross connection terms from day one.
- 8:30 – Review of test kit, RPZA, and DCVA
- 9:15 – Break (5)
- 9:20 – Detailed operational review of Pressure vacuum breaker assembly (PVBA) and Spill resistant vacuum breaker assembly (SVBA). *How do they work? What are we going to be measuring for and testing?*
- 10:25 – Break (5)
- 10:30 – Testing Lab workshop –

Demonstration of proper testing procedures for PVBA & SVBA
- 11:00 – Hands on practice testing (with instructor supervision, in teams)
- 12:00 – Lunch
- 1:00 – Backflow prevention devices in detail (part 1)

Definitions, applications, and limitations
- 2:00 – Break (15)
- 2:15 – Backflow prevention devices in detail (part 2)
- 3:15 – Testing Lab workshop- students hands on testing ALL ASSEMBLIES in teams
- 5:00 – Adjourn



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Wednesday – 9 hours

8:00 – Review

8:30 – Cross connection control program responsibilities discussion and tape review (DVD) – *A complete and comprehensive cross connection control program.*

9:30 – Detail of Responsibilities for:
Federal, State, Municipality (purveyor), Designers, Installers, Testers, Owners.

10:15 – Break (5)

10:20 – Review Wisconsin Dept of Commerce search by records for assemblies and updates to registering assemblies.

11:00 – Safety
Potential hazards for testers- How to avoid problems and risky situations.

11:30 – Quiz

12:00 – Lunch

1:00 – New England Water Works Association DVD on *How to conduct a proper cross connection survey.*

General discussion and review – Steps to consider on cross connection survey work.

2:00 – Break (15)

2:15 – Picture board on how to identify a cross connection exercise (in teams)

3:15 – Testing Lab workshop students hands on testing ALL ASSEMBLIES (on your own this time)

4:25 – Break (5)

4:30 – Quiz

5:00- Adjourn

Thursday– 9 hours

8:00 – Review of liabilities for water municipalities (purveyor) testers, and surveyors

How to reduce liabilities.

9:00- Break (5)

9:05 – Assemblies and Device trouble shooting – general overview

What can cause a malfunction of a backflow preventer?

9:30 – Assemblies detailed trouble shooting – How to determine what is going on and what to do about it.
RPZA, DCVA, PVBA, SVBA

10:30 – Testing Lab workshop – *Putting trouble shooting to the test* (teams exercise)

12:00 – Lunch

1:00 – Repair of Assemblies – and discussion of repair kits.

2:00 – Review of manufactures of equipment presentations

3:00 – Review discussion on Q&A- prepare for test

3:45 – Break (15)

4:00 – Open Testing Lab workshop for student review (practice)

5:00 – Adjourn

Friday -4 hours

7:00- Exam of individual final hands on:

10:00- Break (15)

10:15 – Written Exam

Final Adjournment from class.



**WISCONSIN RURAL WATER ASSOCIATION
and HYDRO DESIGNS INC Present:**

**CROSS CONNECTION CONTROL ASSEMBLY TESTER
CERTIFICATION COURSE**

April 11-15, 2011

(One form per person)

NAME _____

SYSTEM / COMPANY _____

ADDRESS _____

PHONE _____ FAX _____ E-MAIL _____

40 hour Assembly Tester Course Registration (April 11-15 2011)

Does not include any meals or lodging

MEMBER
___\$750.00

NON-MEMBER
___\$775.00

Deadline to Register: April 4, 2011

- Monday 8:00am to 5:00pm** *hour break for lunch*
- Tuesday 8:00am to 5:00pm** *hour break for lunch*
- Wednesday 8:00am to 5:00pm** *hour break for lunch*
- Thursday 8:00am to 5:00pm** *hour break for lunch*
- Friday 7:00am to 11:00am**

Lodging Available:

Comfort Inn
1560 American Drive, Plover, WI 54467 Ask for the Rural Water Rate \$67/ night

AmericInn
1501 American Drive, Plover, WI 54481 Ask for the Rural Water Rate \$64.95/ night

CLASS SIZE IS LIMITED TO 30 PARTICIPANTS, PLEASE REGISTER EARLY.

MINIMUM OF 18 PARTICIPANTS NEEDED TO HOLD CLASS

NO REFUNDS AFTER April 1, 2011

PLEASE RETURN THIS FORM WITH PAYMENT TO:

WISCONSIN RURAL WATER ASSOCIATION
350 WATER WAY
PLOVER, WI 54467

FOR MORE INFORMATION ON PAYING BY CREDIT CARD, CALL OUR OFFICE AT (715)344-7778