

# New England Water Works Association

A Section of the American Water Works Association

January 13-16, 2009  
Holliston, MA

February 2-5, 2009  
Manchester, NH

February 9-12, 2009  
E. Providence, RI

March 2-5, 2009  
Boston, MA

March 16-19, 2009  
Hartford, CT  
Philadelphia, PA

April 20-23, 2009  
Clifton, NJ

May 12-15, 2009  
Holliston, MA

May 18-21, 2009  
Auburn, ME  
Albany, NY

June 1-4, 2009  
Hartford, CT

June 8-11, 2009  
Syracuse, NY

June 15-18, 2009  
Little Ferry, NJ

June 22-25, 2009  
Northampton, PA

July 21, -24, 2009  
Holliston, MA

August 3-6, 2009  
Franklin, NH

August 10-13, 2009  
Plattsburgh, NY

August 24-27, 2009  
Kingston, RI

August 31-Sept. 3, 2009  
Philadelphia, PA  
Groton, CT

October 6-9, 2009  
Holliston, MA  
Pittsburgh, PA

October 19-22, 2009  
York, PA

November 2-5, 2009  
Boston, MA  
Short Hills, NJ

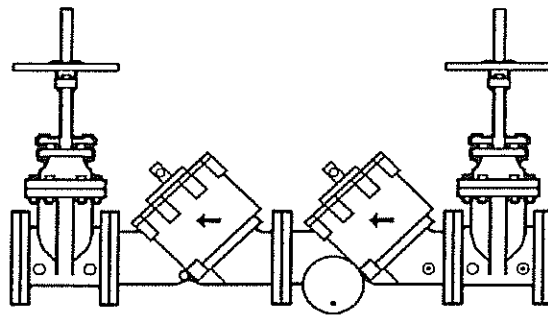
November 16-19, 2009  
S. Burlington, VT

December 1-4, 2009  
Holliston, MA

December 7-10, 2009  
New Haven, CT

# Backflow Prevention Device Inspector/ Tester Training

## 2009



2.0 CEUs

Equivalent to 20 Training Contact Hours (TCHs)

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Presented by:



**New England  
Water Works Association**

A Section of the  
American Water Works Association

# Backflow Prevention Device Inspector/Tester Training

## COURSE DESCRIPTION

The course is presented from a practical viewpoint with a blend of classroom and hands-on training. The concepts of a cross-connection and the health hazards related to them will be discussed, as will the types of backflow, the causes of backflow, how to protect a cross-connection and how to test three types of backflow prevention devices. The philosophies of containment and in-plant protection for controlling cross-connection will be discussed as will the installation of devices and the aspects of choosing the appropriate device. A detailed explanation of the working of backflow prevention device is presented as is how to troubleshoot them.

The course material will include a discussion of EPA, states, public water systems, and consumers' role in controlling cross-connection. A review of the Safe Drinking Water Act, plumbing and fire protection codes will also be included in the training.

NEWWA certification is universally accepted; however, some states such as Massachusetts, Connecticut, and New York require their own certification, separate from the NEWWA Certification. This will be discussed during the training.

The objective of this training is to provide the student with the understanding of cross-connection control and the knowledge to test backflow prevention devices. After taking this training, the student will be able to identify backflow prevention devices, understand how they function and how to test a reduced pressure zone backflow prevention device, a double check valve assembly and a pressure vacuum breaker. The student will be given the basic knowledge of the public health issues related to cross-connections, what causes backflow, the different types of testable and non-testable backflow prevention devices, where to use backflow prevention devices, how to troubleshoot them, the responsibilities of a tester, and how to become a certified tester with NEWWA and States. Examinations for NEWWA Backflow Prevention Device Inspectors (Tester) Certification will be given at the conclusion of the training.

## BACKFLOW TRAINING SCHEDULE

DAY 1: 8:00 A.M. - 4:30 P.M.  
DAY 2: 8:00 A.M. - 4:30 P.M.  
DAY 3: 8:00 A.M. - 4:30 P.M.  
DAY 4: 8:00 A.M. - 1:00 P.M.

## TRAINING OBJECTIVES

Upon successful completion of the Course the student will be able to understand:

1. Cross-Connection Terminology
2. How Cross-Connections Impact Public Health
3. The Basic Hydraulics of Backflow
4. How Cross-Connections are Controlled
5. The roles of EPA, States, Local Government, Public Water Systems, and Others to Control Cross-Connections. Define cross connection and list common cross connections.
6. The Types of Cross-Connections
7. How Cross-Connections are Protected or Controlled
8. How To Identify Backflow Prevention Devices
9. How Backflow Prevention Devices are used
10. How Backflow Prevention Devices Function. Troubleshoot failed devices
11. How Backflow Prevention Devices are Tested
12. How to Troubleshoot Failed Devices
13. How to Properly Complete Common Report forms

**BACKFLOW INSPECTORS  
CERTIFICATION WRITTEN AND  
PRACTICAL EXAMS ARE GIVEN ON THE  
FINAL DAY**

If you would like to preview the cross-connection manual used in the training, you can do so by going to the EPA web site at <http://www.epa.gov/safewater/crossconnection.html>

## CROSS CONNECTION CONTROL SURVEYING VIDEO

This 25 minute video, which is shown during the NEWWA *Cross-Connection Control Surveyor* Training, is designed to present a complete overview of the cross connection control survey process in capsulated form. NEWWA instructor Howard Hendrickson guides you through key issues such as planning and notification, surveyors' role and responsibilities and device installation recommendations. The program culminates in an actual field survey of a two hundred-fifty bed hospital with full report of findings. You follow the survey team every step of the way!

Accompanying the video at no charge is the USEPA Cross Connection Control Manual detailing many issues covered in the video and expanding on others. Together, the video and manual make a powerful, reference combination.

## RECOMMENDED PRACTICE FOR BACKFLOW PREVENTION AND CROSS CONNECTION CONTROL

### M14

You will find all the information you needed to eliminate the threat of backflow and cross-connection in your distribution system. This manual describes currently accepted practice for initiating and managing an effective cross-connection control program. This manual is designed as a professional guidance manual for those involved in detection and elimination of unprotected cross-connections, to establish uniform procedures and practices. Coverage includes backflow device selection and the latest techniques for inspection and maintenance.

## BACKFLOW PREVENTION AND CROSS CONNECTION CONTROL VIDEO

This video is specially developed to reinforce and demonstrate the information in AWWA Manual M14

## BACKFLOW DEVICE TESTING VIDEO

This 16 minute video, which is shown during this NEWWA training, provides a concise, yet, thorough review of the testing of two different backflow prevention devices. A step-by-step procedure is utilized to test two reduced pressure principle devices and one double check valve.

This video is designed to assist certified testers in re-certification exam preparation. It will enable you to refresh your lab work at your own pace and will provide a permanent reference for the future. Howard Hendrickson P.E., the NEWWA instructor, serves as both narrator and instructor in this video.

When you complete the attached registration form for the Backflow Prevention Device Inspectors/Testers Course you have the opportunity to purchase the videos show at the training and additional training material at a special reduced price. **Purchase both the Survey and Tester Video and save even more.** Check the appropriate box, enclose payment (check or purchase order) and your personal copies of the video will be sent directly to you. There are no postage and handling charges.

## LOCATIONS

### Boston, MA

Boston Water & Sewer Comm.  
March 2-5, 2009  
November 2-9, 2009

### South Burlington, VT

Champlain Water District  
November 16-19, 2009  
co-sponsored by Green Mountain Water  
Environmental Association

### Short Hills, NJ

New Jersey American Water Co.  
November 2-5, 2009

### Holliston, MA

NEWWA Training Center  
January 13-16, 2009  
May 12-15, 2009  
July 21-24, 2009  
October 6-9, 2009  
December 1-4, 2009

### New Haven, CT

New Haven Regional Water  
Authority  
December 7-10, 2009

### Hartford, CT

Metropolitan District Comm.  
March 16-19, 2009  
June 1-4, 2009

### Groton, CT

Groton Utilities  
August 31-Sept. 3, 2009

### Manchester, NH

Manchester Water Works  
February 2-5, 2009

### Franklin, NH

Franklin Training Center  
August 3-6, 2009

### East Providence, RI

Bucklin Point Wastewater  
Treatment Facility  
February 9-12, 2009

\* co-sponsored by NY Section of AWWA  
\*\* co-sponsored by PA Section of AWWA

### Philadelphia, PA

Drexel University  
March 16-19, 2009  
August 31-Sept. 3, 2009

### Northampton, PA \*\*

Northampton Borough Municipal  
Authority  
June 22-25, 2009

### Pittsburgh, PA \*\*

Fox Chapel Authority  
October 6-9, 2009

### York, PA \*\*

York Water Company  
October 19-22, 2009

### Clifton, NJ

Passiac Valley Water Comm.  
April 20-23, 2009

### Auburn, ME

Auburn Water District  
May 18-21, 2009

### Little Ferry, NJ

Bergen County Utilities Authority  
June 15-18, 2009  
North Section NUWEA members may be  
entitled to a partial reimbursement upon  
completion of the course. Contact the  
section for further details.

### Albany, NY \*

The College of Saint Rose  
May 18-19, 2009

### Plattsburgh, NY \*

Town of Plattsburgh  
August 10-13, 2009

### Syracuse, NY \*

Onondaga County Water  
Authority  
June 8-11, 2009

### Kingston, RI

URI Fisheries Center  
August 24-27, 2009

## NEW ENGLAND WATER WORKS ASSOCIATION

New England Water Works Association is a non-profit membership association for the advancement of knowledge related to water works and water supply activities.

Membership benefits include notices of all meetings, subscription to both Journals and all newsletters, discounts on training programs and publications. If you or your organization is interested in joining NEWWA please call us.

### REGISTRATION

Three ways to register: Internet, Fax or Mail. Please see registration form for fees. Fees include 20 hours of classroom and hands-on training, a Certificate for 2.0 CEUs, workbook, handouts, examinations, and a "Certificate," upon meeting the requirements. Lunch is not provided.

The videos shown in the training can be purchased with the course registration. Consult the registration form for details.

If you need to cancel, you must contact NEWWA in writing at least two business days prior to start of the course to request a refund. A \$30 cancellation fee will be assessed. If you do not attend the course, and do not contact NEWWA in writing as specified above, you will be charged a "No-Show" fee which is equal to the original course registration fee. The "No-Show" fee is non-refundable and non-transferable. Written refunds/credit request will be considered for special circumstances provided that the request is received by NEWWA within two weeks of the start of this training. Registrations received within two days of the start of this training will be assessed a \$20 late application fee. For further information call NEWWA office at the number below

Registration may be made on line at [www.newwa.org](http://www.newwa.org) or by filling out this form and mailing or faxing it to the address below. Please indicate form of payment.

**NEWWA**  
125 Hopping Brook Road  
Holliston, MA 01746-1471  
508-893-7979  
FAX: 508-893-9898

NEWWA reserves the right to cancel or change the location of a course. In the event of a cancellation or relocation, you will be notified by phone and have the option of obtaining a full refund or applying payment to the next available course.

Detailed directions will be faxed with registration confirmation APPROXIMATELY 2 WEEKS BEFORE THE COURSE and are available on the NEWWA web site at [www.newwa.org](http://www.newwa.org)

## Registration Form 2009 Backflow Prevention Device Inspector/Tester Training

**Part I -** Please complete this entire section including phone numbers, fax, email, and NEWWA / AWWA member number if applicable. The address should be your billing address for these courses.

**Part II -** Please check the date/location of the training you will be attending. If you register within two days - add a \$20 late fee.

**Part III -** Please indicate the method of payment by checking the appropriate box and filling in the TOTAL FEE box. If you will be paying by credit card, you must include the card number and expiration date. Please keep a copy of this registration form for your records. One name per registration form. For additional registration forms reproduce this form or call NEWWA if you have any questions (508) 893-7979.

### PART I - PARTICIPANT INFORMATION

Name	Business Phone:	
	Cell Phone:	
Company	Fax	
Billing Address		
City	State	Zip
Email	NEWWA Member # (if applicable)	

### Part II: Please check the date/location of the training you will be attending.

Boston, MA	<input type="checkbox"/> March 2-5, 2009	\$660	East Providence, RI	<input type="checkbox"/> February 9-12, 2009	\$660
	<input type="checkbox"/> Nov 2-9, 2009	\$660	Philadelphia, PA	<input type="checkbox"/> March 16-19, 2009	\$760
S. Burlington, VT	<input type="checkbox"/> Nov. 16-19, 2009	\$660		<input type="checkbox"/> August 31-Sept. 3, 2009	\$760
Short Hills, NJ	<input type="checkbox"/> Nov. 2-5, 2008	\$760	Northampton, PA	<input type="checkbox"/> June 22-25, 2009	\$760
Holliston, MA	<input type="checkbox"/> January 13-16, 2009	\$660	Pittsburgh, PA	<input type="checkbox"/> Oct. 6-9, 2009	\$760
	<input type="checkbox"/> May 12-15, 2009	\$660	York, PA	<input type="checkbox"/> Oct. 19-22, 2009	\$760
	<input type="checkbox"/> July 21-24, 2009	\$660	Clifton, NJ	<input type="checkbox"/> April 20-23, 2009	\$760
	<input type="checkbox"/> October 6-9, 2009	\$660	Auburn, ME	<input type="checkbox"/> May 18-21, 2009	\$660
	<input type="checkbox"/> December 1-4, 2009	\$660	Little Ferry, NJ	<input type="checkbox"/> June 8-11, 2009	\$760
New Haven, CT	<input type="checkbox"/> December 7-10, 2009	\$660		<input type="checkbox"/> June 15-18, 2009	\$760
Hartford, CT	<input type="checkbox"/> Mar. 16-19, 2009	\$660	Albany, NY	<input type="checkbox"/> May 18-19, 2009	\$760
	<input type="checkbox"/> June 1-4, 2009	\$660	Plattsburgh, NY	<input type="checkbox"/> Aug. 10-13, 2009	\$760
Groton, CT	<input type="checkbox"/> August 31-Sept. 3, 2009	\$660	Kingston, RI	<input type="checkbox"/> Aug. 24-27, 2009	\$660
Manchester, NH	<input type="checkbox"/> February 2-5, 2009	\$660			
Franklin, NH	<input type="checkbox"/> August 3-6, 2009	\$660			

Course Fee: \$ \_\_\_\_\_  
Late Fee \$20 \$ \_\_\_\_\_

### PLEASE CONSIDER ORDERING ANY OF THESE RELATED RESOURCES

I would like to purchase the AWWA Backflow Prevention and Cross Connection Control Video	\$120 _____
I would like to purchase the NEWWA Testers Video	\$ 80 _____
I would like to purchase the NEWWA surveyors video	\$ 90 _____
I would like to purchase BOTH the NEWWA Testers and Surveyor Videos (\$10.00 savings)	\$160 _____
I would like to purchase the AWWA Manual 14 "Recommended Practice for Backflow Prevention and Cross Connection Control"	\$ 60 _____
<b>Total Fee:</b>	<b>\$ _____</b>

### PART III - METHOD OF PAYMENT

<input type="checkbox"/> Check (Payable to NEWWA)	<input type="checkbox"/> P.O.# _____	<input type="checkbox"/> MasterCard/Visa	<input type="checkbox"/> AMEX	Amount enclosed
				\$ _____
Credit Card #	Expiration Date	Signature:		

**Cancellation Policy:** If you cannot attend this training, contact NEWWA in writing two business days prior to the start of this program to request a refund or credit minus a \$30 administrative fee. You will be charged 100% of the original course registration fee if you contact NEWWA within one business day. This charge is non-refundable and non-transferable. Written refund/credit request made for special circumstances will be considered if received within two weeks from the start date of this program. Credits issues are valid for six months from the date of this program.

**MAIL OR FAX TO: NEWWA, 125 Hopping Brook Road, Holliston, MA 01746-1471  
Phone: 508-893-7979 - Fax No: 508-893-9898**

- Check here if you have a disability and require accommodations to fully participate. You will be contacted by NEWWA.
- I am considering membership in NEWWA/AWWA. Please send information.