

# CTAWWA EDUCATION COMMITTEE PRESENTS

## Spring 2010 Education Schedule

Welcome to the Spring 2010 CTAWWA listing of courses. The CTAWWA Education Committee provides the most comprehensive, up-to-date training for members. We appreciate your continued support and encourage you to participate in courses offered by CTAWWA individually and in partnership with NEWWA.

Most of the CTAWWA courses are discounted this semester to assist our members in difficult economic times.

Please note that courses offered in partnership with NEWWA must be registered and payment made directly to NEWWA. Courses offered by CTAWWA must be registered and payment made directly to CTAWWA.

Register for CTAWWA courses at [www.ctawwa.org](http://www.ctawwa.org). Enrollment is limited; please register early. The dates and locations of the remaining courses will be posted on the website.

### Education Co-Chairs:

Jen Muir, PE.  
JK Muir, LLC  
Phone (860) 367-3570  
e-mail: [jenmuir@jkmuir.com](mailto:jenmuir@jkmuir.com)

Robert J. Longo  
Bristol Water Department  
Phone (860) 582-7431  
e-mail: [RobertLongo@ci.bristol.ct.us](mailto:RobertLongo@ci.bristol.ct.us)

### CTAWWA Executive Manager

Pam Monahan  
Phone: 203-757-1855  
NEW FAX NUMBER: 203-725-0445  
[ctawwa@snet.net](mailto:ctawwa@snet.net)

### PARTNERSHIP COURSES WITH NEWWA

The following courses are offered in partnership with the New England Water Works Association, a section of the American Water Works Association.

To register for these courses, call NEWWA at (508) 893-7979 or visit [www.newwa.org](http://www.newwa.org). CTAWWA does not accept registration for these classes.

Registration fee include all course materials, breaks, lunch (excluding half-day courses), CEUs and CEU Certificate. All courses are approved for CT Certified Drinking Water Operator Training Renewal Requirements. Distribution (D), Treatment (T), or combined (T & D) applicability are listed for each course. Enrollment for each session is limited. Early registration is advised.

### Pumps and Pumping Overview

Course Code: DPP310AC

Date: Wednesday, March 3, 2010

Location: MDC Training Center, Hartford

Time: 9:00 am – 4:15 pm

CEU: 0.6 (6.0 TCH)

Applicable To Treatment and Distribution (T/D)

**Course Description:** This one-day seminar is designed as an overview to help participants develop an understanding of how pumps operate and how to keep them in top operating condition. The class also serves as a prerequisite for the "Troubleshooter: Maximizing Your Pumping Efficiency" class. Beginning with the explanation of component parts, terminology, pump types and a basic orientation to hydraulics, sound operation and maintenance procedures will be presented throughout the seminar with an eye towards improving pumping results. Water utility operations professionals who deal directly with their systems' pumps and their operation and maintenance will find this seminar of interest. Those front line management professionals who directly supervise this critical component of water distribution and treatment systems will also find this program useful. Whether as a review for seasoned personnel or an orientation for new staff, the straightforward agenda in this seminar will present important information that can be utilized in "real world" situations.

**Registration fee:** CTAWWA members \$145.00/ Non-Members \$185.00

### The New Wave of Public Relations and Drinking Water Utilities

Course Code: PPR310AC

Date: Tuesday, March 16, 2010

Location: Regional Water Authority, New Haven

Time: 9:00 am – 12:30 pm

CEU: 0.3 (3.0 TCH)

Applicable To Treatment and Distribution (T/D)

**Course Description:** Whether your utility serves 5 or 500,000 it is important to be prepared to face the media and/or public in any event, be it positive or negative. Even the smallest of utilities can find themselves thrown into the media or public spotlight when they least expect it. This session will brief you on what to expect from the media and public in the event of an emergency or general inquiry, and cover the new ways utilities can gain access to their customers via online social networking.

**Registration fee:** CTAWWA members \$110.00/ Non-members \$150.00

### Effective Process Control and Energy Efficiency: Monitoring and Maintaining Your Instrumentation

Course Code: TMI410AC

Date: Wednesday, April 7, 2010

Location: Groton Utilities, Groton

Time: 9:00 am – 4:15 pm

CEU: 0.6 (6.0 TCH)

Applicable To Treatment (T)

**Course Description:** Monitoring treatment by use of on line and bench top instruments can be used to optimize processes and chemical feeding as well as improve energy efficiency. This course is designed to examine the aspects of instrument maintenance, calibration and data verification, as well as methods to save energy and costs in your day-to-day operations. After examining the use of continuous monitoring and other instruments, methods of collecting data and the proper interpretation of the data will be examined. Specific methods of energy saving will be outlined along with an examination of disinfections control and distribution system water quality monitoring. After the completion of this course, operator, plant managers, engineers, regulators and others will have a greater understanding of how to make your instruments work optimally for you.

**Registration Fee:** CTAWWA members \$145.00; Non-members; \$185.00 non-members

### **Water Main Disinfection**

Course Code: DMD410AC

Date: Thursday, April 29, 2010

Location: MDC Training Center, Hartford

Time: 9:00 am – 12:30 pm

CEU: 0.3 (3.0 TCH)

Applicable To Distribution (D)

**Course Description:** This seminar has been specifically developed to present an overview of the various processes utilized to disinfect drinking water distribution system water mains. Each segment will present a topic related to the sanitary protection of a typical distribution system water main. The focus of this forum is introductory in nature. The morning segment will help participants develop an understanding of the various types of chlorine used in the disinfection process, as well as the importance of water main disinfection. A follow up segment will cover the disposal of highly chlorinated water and show how to properly dispose of this water according to the latest acceptable practices. The next segment includes a presentation by a water main contractor illustrating the correct methods used to disinfect new, repaired, or rehabilitated mains. Lastly, an overview of how to provide proper quality control in the main disinfection process will be presented. "Water Main Disinfection" will provide you with a solid, need-to-know-background in main disinfection basics.

**Registration fee:** CTAWWA members \$110.00; Non-members \$150.00

### **Identifying and Removing Problem Organisms in Drinking Water**

Course Code: TPO410AC

Date: Wednesday, May 5, 2010

Location: MDC Training Center, Hartford

Time: 9:00 am - 4:00 pm

CEU: 0.6 (6.0 TCH)

Applicable To Treatment (T)

**Course Description:** This full day class is designed to present an awareness of the most common types of problem or nuisance organisms, and how to best remove these organisms. Today, water treatment plants as well as ground water systems are primarily concerned with removing pathogenic viruses, bacteria and protozoa. However, other common organisms exist readily in drinking water and can cause significant oxygen demand, taste and odor problems, filter and screen clogging, and other problems. The class will begin with an overview of the meaning of "indicator organisms" to distinguish regulated and unregulated microbiological concerns in drinking water. Each group of problem-causing organisms will then be examined to show how they can be identified, what problems they cause, and how they can best be removed. Examples will begin with the various type of problem-causing bacteria: Actinomycetes, as well as iron, sulfur and nitrifying bacteria, followed by algae and protozoa. Next some of the larger organisms, including aquatic and terrestrial nuisance plants, nematodes, bloodworms or midges, rotifers, copepods and crustaceans, will be examined, ending with the examination of zebra mussels.

**Registration fee:** CTAWWA members \$145.00; Non-members \$185.00

### **Preventative Maintenance for Centrifugal Pump Operations**

Course Code: DCP410AC

Date: Wednesday, May 19, 2010

Location: MDC Training Center, Hartford

Time: 9:00 am – 4:00 pm

CEU: 0.6 (6.0 TCH)

Applicable To Distribution (D)

**Course Description:** If you have experience with the use and operation of any type of centrifugal pumps, you need to know how important pump maintenance is. This full day class is designed to present the basics of what is required to create a useful and practical preventative maintenance (PM) program for your pumps. Topics covered will include: pump installation concerns, motor to pump connections, shaft alignment, bearings lubrication, and tools of the maintenance technician/technologist. The information is designed to be presented in a manner which allows system operators, managers and other responsible parties to understand methods of proper PM and the savings that go along with it. A previous knowledge of basic pump operations is highly recommended in order to fully benefit from this course.

**Registration fee:** CTAWWA members \$145.00; Non-members \$185.00

### **How to Successfully Operate and Maintain Your Distribution System**

Course Code: DDS410AC

Date: Tuesday, June 1, 2010

Location: MDC Training Center, Hartford

Time: 9:00 am – 4:15 pm

CEU: 0.6 (6.0 TCH)

Applicable To Treatment and Distribution (T/D)

**Course Description:** This course is designed to cover the "basics" of the typical components of the average drinking water distribution system. Each of the components of the system will be reviewed as well as best practices for system operations and maintenance. This course will be helpful to all employees of drinking water system that wish to learn about their distribution system, or for seasoned employees that want a review of the basics of system operations.

**Registration fee:** CTAWWA members \$145.00; Non-members \$185.00

### **Hand-on Bulk Chemical Delivery, Quality Assurance and Testing**

Course Code: LCT410AC

Date: Wednesday, June 16, 2010

Location: Groton Utilities, Groton

Time: 9:00 am – 12:30 pm

CEU: 03 (3.0 TCH)

Applicable To Treatment (T)

**Course Description:** This half-day, seminar has been specifically developed to present an overview of the simple testing methods available to treatment facilities that use chemicals in bulk quantities. The focus of this seminar is to expand the knowledge gained in the class entitled "Bulk Chemical Delivery Workshop". This class is recommended as either a pre or post-requisite to attending this seminar. This seminar is designed for plant operators, laboratory personnel and others who wish to learn the proven methods of bulk chemical delivery testing. Upon completion of this class, participants will be able to complete the various methods available for quickly screening and testing the most common types of chemicals used in wastewater and drinking water treatment facilities. This seminars focus is for individuals to gain an understanding of the importance and practicality of testing bulk chemical deliveries for reasons of quality assurance security.

**Registration fee:** CTAWWA members \$110.00; Non-members \$150.00 non-members.

## CTAWWA Courses

The following courses are sponsored by the Connecticut Section of the American Water Works Association.

To register for these courses fax or call (203) 757-1855. Please visit the CTAWWA website – [www.ctawwa.org](http://www.ctawwa.org). You can register on-line for these courses. Credit cards accepted. NEWWA does not accept registration for these classes.

**Registration fee** include all course materials, breaks, lunch (excluding half-day courses), CEUs and CEU Certificate. All courses are approved for CT Certified Drinking Water Operator Training Renewal Requirements. Distribution (D), Treatment (T), or combined (T & D) applicability are listed for each course. Enrollment for each session is limited. Early registration is advised.

### Water Treatment Operations School

**Course Code:** #Spring 1001

**Date:** Tuesday, January 26, 2010 Class runs for 15 weeks.

**Location:** MDC Water Treatment Facility, West Hartford

**Time:** 6:00 pm – 8:00 pm

This course will cover all practical aspects of water treatment processes in general use today as well as basic mathematics, chemistry and hydraulics. Although there is no prerequisite for attending this course, each applicant must have basic mathematical ability including the use of fractions and decimals. In-class time will run approximately two hours, with additional work assigned for completion outside of class. There must be a commitment made by each student to complete these weekly assignments in order for the course to be effective.

Class is held at the MDC Water Treatment Facility in West Hartford. From the North and South: Take I-91 South or North to I-84 West and follow the directions below.

From the East and West: Take I-84 to Exit 39 (Route 4). At the end of the ramp take a right at the light onto Route 4 East. At the sixth light (a distance of 2 ½ miles) take a left into the facility.

**Registration Fee:** CTAWWA Members \$500.00; Non-Members \$550.00

### Treatment Plant Instrumentation

**Course Code:** #Spring 1002

**Date:** Thursday, March 25, 2010

**Location:** MDC Training Center, Hartford

**Time:** 8:30 am – 12:15 pm

**CEU:** 0.3 CEU (3.0 TCH)

In order to be proficient as a drinking water treatment plant operator, an individual must have a basic understanding of the functions of treatment plant instrumentation. This half-day seminar will provide operators with a practical knowledge of instrument selection and installation, instrument calibration, using instrumentation for process control, and Supervisory Control and Data Acquisition (SCADA).

**Registration Fee:** CTAWWA Members \$80.00 / Non-Members \$125.00

### Business 101

**Course Code:** #Spring 1003

**Date:** Thursday, April 15, 2010

**Location:** MDC Training Center, Hartford

**Time:** 9:00 am – 4:00 pm

**CEU:** 0.6 CEU (6.0 TCH)

**Applicable for Treatment and Distribution (T&D)**

Water operators could benefit from understanding just how a business works so that they may better appreciate the business decision making process. This full-day course presents to the student the nature of a business and what the risks associated with a large business operation such as a utility are, and how risk is managed. Basic concepts in business organization and operation, form of business, why businesses exist, how businesses are organized, and how the money comes in and goes out will be addressed. Hopefully upon completion of the course the student will have a better appreciation for how business decisions are made.

**Registration Fee:** members \$100.00 / non-members \$145.00.

### DPH Operator Certification Review

**Course Code:** #Spring 1004, #Spring 1005

**Location:** Regional Water Authority

**Date:** Wednesday, May 25, 2010

**Time:** 9:00 am – 3:30 pm

This course will be a one-day review session to assist treatment plant and distribution system operators for the state certificate examinations. The morning review session will focus on treatment plant operations, and the afternoon session will focus on distribution system operations. Attendees should bring a calculator to the review session and will be provided with a copy of AWWA's Operator Certification Study Guide (5th edition).

Exam applications are available on the DPH Drinking Water Section website: [www.ctgov/dph](http://www.ctgov/dph). From there, click on "Drinking Water," then "Certified Operators," then Exam Information." For more information, the Connecticut Department of Public Health at (860) 509-7333.

No Book: CTAWWA Member \$90.00; Non-Member \$130.00  
With Book: CTAWWA Member \$140.00; Non-Member \$180.00

### DPH Testing Dates

EXAM	Testing Date	Application
Small Water System	June 8, 2010	April 23, 2010
Water Treatment Plant Operator	June 8, 2010	April 23, 2010
Distribution System Operator	June 9, 2010	April 23, 2010

### Business Writing for Everyone

**Course Code:** #Spring 1006

**Date:** Thursday, June 10, 2010

**Location:** MDC Training Center, Hartford

**Time:** 9:00 am – 4:00 pm

**CEU:** 0.6 CEU (6.0 TCH)

**Applicable for Treatment and Distribution (T&D)**

This full-day class will address the types of writing assignments that water system employees at all levels from outside maintenance team member to senior manager may be challenged with in the course of carrying out their daily routines and special assignments. Topics will include memoranda, e-mails, letters and reports with an emphasis on structure, grammar and spelling. Several aptitude and knowledge measurement tools will be utilized, and a number of in-class writing samples will be prepared. Participants will leave with a large selection of tools and references for future use.

**Registration Fee:** CTAWWA Members \$100.00/Non-Members \$145.00