

CTAWWA Spring 2011 Training Schedule

Course selections for Spring 2011 are listed below. 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.

Please note that the 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.

There is a listing of the course offerings on the website, www.ctawwa.org, where you can also register online.

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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 the website at www.newwa.org. CTAWWA does not accept registration for these classes.

Registration fee includes 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 is listed for each course. Enrollment is limited; please register for courses early.

The Troubleshooter: Maximizing Your Pumping Efficiency

Course Code: DTS311AC

Date: Thursday, February 10, 2011

Location: Regional Water Authority, New Haven

Time: 9:00 – 4:00 PM

CEU: 0.6 CEU

Applicable for Treatment and Distribution (T&D)

Course Description: This full-day seminar is designed to help improve pumping reliability and to increase pump service life while decreasing maintenance budgets. Participants will develop a broader understanding of pump design, theory of operation, proper installation techniques and maintenance procedures. "Real world" examples will be utilized to help integrate efficient troubleshooting methods to assist in the day-to-day operations of a pump station. 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. This class is designed to build upon the knowledge obtained in the 2-day class entitled "Pumps and Pumping". Previous attendance of this class or the "Pumps and Pumping Overview" class is highly recommended, though not required, to allow for a complete learning experience.

Registration Fee: CTAWWA Members: \$145.00;

Non-Members: \$185.00

"Hands-On" Jar Testing Workshop

Course Code: TJT311AC

Date: Wednesday, March 9, 2011

Location: Groton Utilities, Groton

Time: 9:00 AM – 4:00PM

CEU: 0.6 CEU

Applicable for Treatment (T)

Course Description: This full day seminar is specifically designed to help participants develop an understanding of the coagulation, flocculation and clarification processes used in water treatment. You will learn proper jar testing procedures and how they can be used to optimize treatment performance. You will also learn how jar testing can be used as a tool for evaluating different treatment alternatives. This seminar will be of interest to water utility operations and management professionals, consulting engineers and regulatory officials. Meeting current water quality treatment objectives will require a thorough understanding of the evaluation, control, and optimization of the coagulation and filtration processes. This seminar will familiarize attendees with jar testing procedures and how the jar test can be used as a process control tool. It will focus on fundamental concepts related to jar testing procedures in straight forward fashion, and apply them directly to "real world" situations. Whether serving as an orientation for new staff, or as a review for seasoned professionals, "Hands-On" Jar Testing will provide a valuable learning experience.

Registration Fee: CTAWWA Members: \$145.00;

Non-Members: \$185.00

Sound Procedures for Drinking Water Sampling

Course Code: BSP311AC

Date: Thursday, March 17, 2011

Location: MDC Training Center, Hartford

Time: 9:00 AM – 12:30 PM

CEU: 0.3 CEU

Applicable for Treatment and Distribution (T&D)

Course Description: This course is designed to provide fundamental information to anyone who is responsible for taking drinking water samples. This seminar will explain key concepts and sound scientific procedures that should be included in every sampling program. Instruction will focus on the need for accurate sampling, and follow the sample through the "chain of custody" to its eventual analysis. Though this seminar is lecture and discussion based, it will feature focused, hands-on demonstrations to illustrate essential points and techniques. Practical instructional materials, which can be referenced during the seminar, or "on the job," will be provided. Water utility operations, management and laboratory personnel- anyone who deals with drinking water sampling procedures or sampling analysis in water distribution and treatment, will find this seminar a practical learning experience. Regulators, too, will benefit from this application-oriented instructional program.

Registration Fee: CTAWWA Members: \$110.00;

Non-Members: \$155.00

Iron and Manganese Removal

Course Code: TIM41 IAC

Date: Thursday, April 5, 2011

Location: Groton Utilities, Groton

Time: 9:00 AM – 3:30 PM

CEU: 0.6 CEU

Applicable for Treatment and Distribution (T&D)

Course Description: At the conclusion of the seminar, participants will be able to: describe characteristics of Iron (Fe) and Manganese (Mn); describe the value of removing Fe and Mn; describe basic treatment methods and processes for removing Fe and Mn; perform basic calculations relating to Fe and Mn treatment methods; discuss chemical application and feed methods; and identify potential problems and corrective action. This seminar is designed for operators. It will be especially useful to new or less experienced personnel but will be of interest to seasoned operators, supervisors, plant managers and entry level engineers who are interested in expanding their knowledge on the subject area. The seminar will focus on fundamental concepts related to iron and manganese removal and will include a demonstration of the Permanganate Demand Test and other tests related to Fe & Mn.

Registration Fee: CTAWWA Members: \$145.00;

Non-Members: \$185.00

Sustainable Methods to Maintain Your Groundwater Supply

Course Code: RMG41 IAC

Date: Wednesday, April 20, 2011

Location: MDC Training Center, Hartford

Time: 9:00 am - 4:00 pm

CEU: 0.6 CEU

Applicable for Treatment and Distribution (T&D)

Course Description: Today's sustainable methods of managing groundwater supplies reflect the new best practices for providing safe and sufficient drinking water today and into the future. Groundwater suppliers must understand these new best practices to keep pace with regulations. The one-day workshop is specifically designed for water utility superintendents and managers who must meet today's complex and challenging world of total water resource management with a sound understanding of groundwater withdrawal impacts, how to assess them and most importantly, how to address them effectively. The workshop will cover: Regulatory Drivers for Water Withdrawals, Sustainable Ways to Balance Groundwater Supply Development, Groundwater Concepts and Emerging Challenges for Understanding Well Withdrawal Impacts, How Much Water Can I Pump?: An Overview of Water Resource Conflicts, and Rethinking Recharge to Augment Yield. It will also feature case studies on Protection of Groundwater from Contamination, Drawdown Assessment, Reactivating and Relocating a Former Well field, and Lessons Learned When Things Didn't Go According to Plan. Consulting Engineers, public health professionals and regulatory officials will also find the practical, application oriented workshop of interest.

Registration Fee: CTAWWA Members: \$145.00; Non-Members: \$185.00

Electricity, Emergency Generators and Motors

Course Code: BGM41 IAC

Date: Tuesday, May 3, 2011

Location: MDC Training Center, Hartford

Time: 9:00 AM – 4:00PM

CEU: 0.6 CEU

Applicable for Treatment & Distribution (T&D)

Course Description: This full-day class has been created to allow drinking water system personnel and others to understand the basic concepts of electricity and the operation and maintenance of electrical motors, emergency generators and other related equipment. Beginning with an overview of how electricity is generated, delivered and received into a

typical commercial building, concepts of electrical safety and Lock Out Tag Out will be presented. Next, a description of the tools used to measure proper delivery of electrical power will be reviewed along with a description of the types of commonly used motors and the other equipment used to allow proper motor operations. Required and recommended maintenance will also be described. Lastly, a brief overview of electrical issues related to the use, operation and maintenance of emergency electrical generators will be explored.

Registration Fee: CTAWWA Members: \$145.00;

Non-Members: \$185.00

Lifting Back Safety Fall Protection and Ladder Safety

Course Code: SWS41 IAC

Date: Wednesday, May 18, 2011

Location: Groton Utilities, Groton

Time: 9:00 am - 4:00 pm

CEU: 0.6 CEU

Applicable for Treatment and Distribution (T&D)

Course Description: This full-day course is designed to help participants learn to protect themselves against back injuries when lifting heavy objects. Also, the importance of properly using ladders and protecting against unintended falls will be covered. Pertinent OSHA requirements will be explained and examples of proper safety in each area will be covered. A class demonstration of the proper use of both extension and step ladders will be shown.

Registration Fee: CTAWWA Members: \$145.00;

Non-Members: \$185.00

How to Avoid Violations by Eliminating Pathogens in Your Drinking Water System

Course Code: DEP41 IAC

Location: Regional Water Authority, New Haven

Date: Tuesday, June 7, 2011

Time: 9:00 AM – 12:30 PM

CEU: 0.3 CEU

Applicable for Treatment & Distribution (T&D)

Course Description: This course is designed to provide an understanding of how to avoid occurrences of pathogens and indicator organisms in drinking water treatment plant and distribution systems. By exploring the potential dangers of allowing certain organisms in water, the risks of water-borne disease can be greatly reduced. Regulations will be examined (current and future) to provide a proper understanding of what has been proposed as effective goals in pathogen removal. An in depth examination of how to prevent pathogenic organisms from entering from source to last tap will be discussed. The issue of disinfection success will examine possible organism resistance and how to respond if a system problem occurs. Lastly, the use of routine and special laboratory tests that can assist in troubleshooting the causes of potential problems will be explained.

Registration Fee: CTAWWA Members: \$110.00;

Non-Members: \$155.00

COURSES PRESENTED BY CTAWWA

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

There is a listing of the course offerings on the website, www.ctawwa.org. You can fax the registration to (203) 725-0445, or register online (credit cards accepted). NEVWA does not accept registration for these classes.

Registration fee includes 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 is listed for each course. Enrollment is limited; please register for courses early.

Water Treatment Operations School

Course Code: #Spring 1101

Date: Tuesday, February 1, 2011 - Class runs for 15 weeks

Location: MDC Training Center, Hartford

Time: 6:00 pm – 8:00 pm

Course description: 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.

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

DPH Operator Certification Review

Course Code: #Spring 1102, #Spring 1103

Date: Tuesday, January 18, 2011

Location: Regional Water Authority

Time: 9:00 AM – 3:30 PM

Course Code: #Spring 1104, #Spring 1105

Date: Tuesday, May 24, 2011

Location: Regional Water Authority

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). DPH will have two exam dates this semester.

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

No Book: CTAWWA Member \$110.00; Non-Member \$140.00

With Book: CTAWWA Member \$160.00; Non-Member \$190.00

DPH Testing Dates

EXAM DATE #1	Testing Date	Application
Small Water System	2/1/11	12/23/10
Water Treatment Plant Operator	2/1/11	12/23/10
Distribution System Operator	2/2/11	12/23/10
EXAM DATE #2		
Small Water System	6/7/11	4/26/11
Water Treatment Plant Operator	6/7/11	4/26/11
Distribution System Operator	6/8/11	4/26/11

Fundamentals of Reading and Understanding Drawings

Course Code: #Spring 1106

Location: MDC Training Center, Hartford

Date: Wednesday, April 13, 2011

Time: 8:00 AM – 12:15 PM

CEU: 4.0 TCH (0.4 CEU)*

Applicable for Treatment & Distribution (T&D)

Course Description: This seminar will explain how to understand and read engineering/architectural drawings, including plan views, sections, elevation views, and details. The course will also concentrate on understanding process and instrumentation diagrams (P&IDs), as these drawings explain the operation and control of the proposed systems.

Registration Fee: CTAWWA Members: \$100.00;

Non-Members: \$140.00

Business Writing for Everyone

Course Code: #Spring 1107

Location: MDC Training Center, Hartford

Date: Thursday, June 2, 2011

Time: 9:00 AM – 4:15 PM

CEU: 6.0 TCH (0.4 CEU)*

Applicable for Treatment & Distribution (T&D)

Course Description: Water operators must be able to write effectively in order to relay information with clarity, conciseness and command. They need to understand and tap into the power of the written word. This full-day course teaches the logic and mechanics to choose the appropriate written communication style and how to avoid common pitfalls of written communication. Target audience: Written communication skills are a must for water operators of all levels. This is an excellent course for managers and operators who want to improve their effectiveness.

Registration Fee: CTAWWA Members: \$130.00;

Non-Members: \$170.00

Fundamentals of Business Operators and Management for Non-Managers

Course Code: #Spring 1108

Location: MDC Training Center, Hartford

Date: Thursday, June 9, 2011

Time: 9:00 AM – 4:15 PM

CEU: 6.0 TCH (0.4 CEU)*

Applicable for Treatment & Distribution (T&D)

Course Description: Water operators 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 a goes out will be addressed. Hopefully upon completion of the course the student will have a better appreciation for how business decisions are made. The target audience is non-manager employees of member water utilities. This would include entry level employees.

Registration Fee: CTAWWA Members: \$130.00; Non-Members:

\$170.00

*Application for TCH credits pending.



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