

Operations Refresher for Advanced Exam Review

Date: April 5, 2019

Time: 9:00am-1:30pm

Location: Vermont Rural Water Association, 20 Susie Wilson Road, Essex Junction, VT

Credit: 4 TCH

Non-member cost: \$40



Member cost: \$32

Instructor: Matt Guerino (VRWA)

This class is a review of important topics such as pumps, treatment, hydraulics and pressures. The course will briefly cover information that is often found on Class 3, 4 and D operator exams. Priority will be given to those operators taking one of those exams in May.

Small Systems Class 2 Water Operator Certification Course

Dates & Locations (choose one):

- April 10, 11, 17 & 18, 9:00am-2:00pm, Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT (please park across the street in the recreation field parking lot)
- April 17, 18, 24 & 25, 9:00am-2:00pm, Village of Ludlow Town of Office— Conference Room, 37 Depot Street, Ludlow, VT

Credit: 18 TCH



Non-member cost: \$235

Member cost: \$188

Instructors: Matt Guerino (VRWA) - Montpelier, Diana Butler & Tim Russo (VRWA) - Ludlow

This course is designed for those who will be taking the VT Class 2 Water Operator Certification Exam. The eighteen hour class provides a survey of aspects of operating a small public water system using groundwater as a source. The Safe Drinking Water Act (SDWA) requirements, sampling water sources, well construction, source protection, storage, distribution, hydraulics, cross-connections, safety, disinfection, treatment, and water math will be covered. This class is not designed for the operators of Transient Systems (TNCs) ***BRING A LUNCH***

WET Testing

Dates & Locations (choose one):

- April 16, 9:00am-12:30pm, Vermont Rural Water Association, 20 Susie Wilson Road, Essex Junction, VT
- April 23, 9:00am-12:30pm, Hartford Municipal Building, 171 Bridge Street, White River Junction, VT

Credit: 3 TCH

Non-member cost: \$30



Member cost: \$24

Instructors: John Williams (Aquatec, Inc.) and Amy Polacyk (VT DEC)

Proctor: Elizabeth Walker (VRWA)

WET Testing - Learn the how's and why's for proper sampling procedures, preservation, and hold times. Learn about the procedures used in the laboratory and how to interpret the final results. What steps are taken if the results fail. Learn about the DEC's Toxic Discharge Control Plan a DEC representative will present regulatory perspectives on limiting toxic substances in direct discharges.

VOSHA Safety Training: Overview of Hazard Communication, Personal Protective Equipment, Trenching, Confined Space and Lock-Out/Tag-Out

Dates & Locations (choose one):

- April 18, 8:30am-3:30pm, Newport City Fire Department, 350 Western Avenue, Newport, VT
- April 25, 8:30am-3:30pm, Town of Bennington Fire Facility, 130 River Street, Bennington, VT
- April 30, 8:30am-3:30pm, Vermont Rural Water Association, 20 Susie Wilson Road, Essex Junction, VT
- May 2, 8:30am-3:30pm, Hartford Municipal Building, 171 Bridge Street, White River Junction, VT

Credit: 6 TCH



Non-member cost: \$60



Member cost: \$48

Instructor: Dan Whipple (VOSHA)

Proctor: Elizabeth Walker (VRWA)

Keep your employees and fellow coworkers safe by gaining an understanding of the following safety standards: Hazard Communication, Personal Protective Equipment, Trenching, Confined Space and Lock-out/Tag-out.



Drinking Water Operator Sample Training

Dates & Locations (choose one):

- April 19, 9:00am-12:30pm, Vermont Rural Water Association, 20 Susie Wilson Road, Essex Junction, VT
- May 17, 9:00am-12:30pm, West Rutland Municipal Building, 35 Marble Street, West Rutland, VT
- June 4, 9:00am-12:30pm, Public Works Office, 78 Bowen Road, Bennington, VT

Credit: 3 TCH



Non-member cost: \$30

Member cost: \$24

Instructors: Janelle Wilbur and Amy Galford (DWGWP)

Proctor: Matt Guerino (VRWA)

How to sample? Where to sample? When to sample? This training will go through sampling and monitoring requirements of Community and Non-Transient Non-Community drinking water systems focusing on Phase II/V Chemical Contaminants, Lead and Copper, and Disinfection Byproducts. In this training, operators will learn the background behind their water system's monitoring requirements and help them to read, understand, and follow their system's monitoring schedule, learn what coding means and what coding to use on laboratory paperwork, and other topics necessary to remain in compliance with monitoring requirements of important drinking water regulations.

Water and Wastewater System Ethics

Dates & Locations (choose one):

- April 25, 9:00am-1:30pm, Bethel Town Hall, 134 South Main Street, Bethel, VT
- May 14, 9:00am-1:30pm, Public Works Office, 78 Bowen Road, Bennington, VT

Credit: 4 TCH



Non-member cost: \$40



Member cost: \$32

Instructor: Matt Guerino (VRWA)

A review of ethical behavior and its importance as a Water or Wastewater Operator. The course will identify what constitutes unethical behavior and the penalties that accompany this behavior. The course reviews examples of improper practices and review correct procedures.

Exam Preparation Course (Class 3/4/D)

Date: April 30, 2019

Time: 9:00am-1:30pm

Location: Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT (please park across the street in the recreation field parking lot)

Credit: 4 TCH



Non-member cost: \$40

Member cost: \$32

Instructor: Matt Guerino (VRWA)

This course is designed as a short review for water operators prior to the Exam. The course will review Class 3, 4 and D water system operations. We will review testing theory, math questions, exam questions, and general water system operator questions. There will be a group exam taken during the course.

Small Systems Class 2 Exam Preparation Course

Date: April 30, 2019

Time: 9:00am-1:30pm

Location: Bethel Town Hall Conference Room, 318 Main Street, Bethel, VT

Credit: 4 TCH



Non-member cost: \$40

Member cost: \$32

Instructors: Diana Butler and Tim Russo (VRWA)

This course is designed as a short review for water operators prior to the exam. The course will review Class 2 water system operations. We will review testing theory, math questions, exam questions, and general water system operator questions. There will be a group exam taken during the course.

Discharges From Breweries and Food Industries To Your WWTF

Dates & Locations (choose one):

- May 15, 9:00am-1:15pm, Putney Fire Department, 21 Carl Snyder Drive, Putney, VT
- May 30, 9:00am-1:15pm, City of Rutland WWTF, 110 Green Hill Lane, Rutland, VT

Credit: 4 TCH

Non-member cost: \$40

Member cost: \$32



Instructor: Randy Bean

Proctor: Wayne Graham (VRWA)

Discharges from breweries and specialty food industries have been rapidly growing in Vermont in the past decade. The process wastewater discharged by these industries is very different from domestic sewage. The discharges from these industries into your municipal WWTF can have significant impacts on its ability to properly treat wastewater, operational costs, and the ability to connect future projects to your system. This class will provide an understanding of the pollutants discharged from these industries, the impacts on your WWTF, and how to work with these industries to reduce their impacts on your facility. Plus guidance on steps a municipality can take to control and protect itself from their impacts and recoup operational costs. This is a great class from a former long time staff member of VT ANR's wastewater management program and will provide you the knowledge to assess and limit the impact of these industries before problems occur at your WWTF.

Key



= approved for water credit



= approved for wastewater credit

3-Day Wastewater Math Class

Date: June 4, 11 & 18, 2019

Time: 8:30am-3:00pm

Location: Vermont Rural Water Association, 20 Susie Wilson Road, Essex Junction, VT

Credit: 18 TCH



Non-member cost: \$180

Member cost: \$144

Instructor: Eric Wahlberg (Wastewater Technology Trainers)

Proctor: Wayne Graham (VRWA)

This 3 day comprehensive math class will assist operators in streamlining their operations and will prepare operators for all grades of exam preparations. The following will be covered: conversions, area/volume, detention time, pounds, pounds per day, velocity, hydraulic loading, organic loading, solids loading, percent solids recovery, chemical dosing, activated sludge (SVI, F:M, SRT/MCRT), anaerobic digesters and pumping. This instructor is an excellent nationally recognized trainer, with unique math teaching skills. Students are strongly recommended to take all 3 days of classes. Please bring a calculator.

Replacement Planning, Mapping, and Identification of Distribution Lines

Dates & Locations (choose one):

- June 5, 9:00am-12:30pm, Rutland Regional Planning Commission, 67 Merchants Row, Rutland, VT
- June 14, 9:00am-12:30pm, Vermont Rural Water Association, 20 Susie Wilson Rd, Essex Junction, VT

Credit: 3 TCH



Non-member cost: \$30

Member cost: \$24

Instructor: Jason Dolmetsch (MSK Engineering)

Proctor: Matt Guerino (VRWA)

As one of the oldest municipal water systems in Vermont, Bennington has a long history in controlling for and eliminating legacy lead pipe. In this training course, learn how MSK Engineering & Design has taken a GIS-based approach to identify, map and develop replacement plans for 1,600 full, partial, and potential lead service lines in Bennington. Topics covered: lead in drinking water, open-source GIS, GIS- and cloud-based asset management, methods for consolidating tabular records, web mapping for non-programmers, on-site lead test and identification methods, customer and community outreach strategies, replacement program strategies.

Did You Forget About Your Collection System?

Dates & Locations (choose one):

- June 6, 8:00am-12:30pm, City of Rutland WWTF, 110 Green Hill Lane, Rutland, VT
- June 20, 8:00am-12:30pm, Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT (please park across the street in the recreation field parking lot)

Credit: 4 TCH



Non-member cost: \$40

Member cost: \$32

Instructors: Nick Giannetti and David DiDomenico (VT DEC)

Proctor: Wayne Graham (VRWA)

While out of sight, our collection systems cannot be out of mind! This timely and comprehensive class covers how to keep your collection system functioning properly and your community in compliance and out of trouble. Operations, Management and Emergency Response Plans, Power Failure Plans, wastewater ordinances, setting up maintenance/cleaning record schedules, asset management tools and sampling your collection systems will all be covered. Public notification of untreated or unpermitted discharges will also be covered. Instructors from the State of Vermont O & M section will ensure that operators have all of the tools needed to be in compliance with collection system oversight.

Leak Detection and Pipe Locating—With Hands-On Experience

Dates & Locations (choose one):

- June 11, 9:00am-1:30pm, Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT (please park across the street in the recreation field parking lot)
- June 12, 9:00am-1:30pm, Newport City Fire Department, 350 Western Avenue, Newport, VT

Credit: 4 TCH

Non-member cost: \$40



Member cost: \$32

Instructors: Warren Verga (360 Solutions) and Eric Denslow (Eastcom Associates)

Proctor: Matt Guerino (VRWA)

This course is designed to help operators use equipment for leak detection and pipe location. From identifying appropriate tools to how the tools work, this course will educate Water Systems Operators on different methods of identifying water system leaks and pipe location. Also, new technologies in equipment that allow integrating asset management, mapping, and GIS information with leak detection programs will be discussed.

The Information Network For Local Operators (INFLO) Sequential Batch Reactors (SBRs) Roundtable

Date: June 13, 2019

Time: 9:00am-12:15pm

Location: Middlebury Police Station, 1 Lucius Shaw Lane, Middlebury, VT

Credit: 3 TCH



Non-member cost: \$30

Member cost: \$24

Proctor: Elizabeth Walker (VRWA)

This INFLO session will be an open forum roundtable discussion on the operation of SBRs. Who better to learn from than the wastewater specialists and managers in the field that operate these types of systems. Discussion on general operating parameters, winter operations, process control testing, troubleshooting and maintenance will be some of the topics to be discussed. Following this session there will be an opportunity to tour the Middlebury 2.2 mgd Aqua Aerobics SBR Treatment Plant.

Corrosion Control

Date: June 13, 2019

Time: 9:00am-12:30pm

Location: Swanton Village Office, 120 First Street, Swanton, VT

Credit: 3 TCH

Non-member cost: \$30



Member cost: \$24

Instructor: Ryan Peebles (Clean Waters, Inc.)

Proctor: Matt Guerino (VRWA)

Corrosion issues water operators face: This training session will focus on distribution system corrosion and methods to combat it. Topics covered include: what is corrosion and what causes it, why some waters are more corrosive than others, problems corrosion causes, lead/copper rules, using phosphates and pH adjustment to combat corrosion.

Comprehensive Water and Wastewater Chemistry With Jar Tests

Date: June 19, 2019

Time: 8:30am-3:30pm

Location: Town of Bennington Fire Facility, 130 River Road, Bennington, VT

Credit: 6 TCH

Non-member cost: \$60



Member cost: \$48



Instructor: Loren Swears (Slack Chemical)

Proctor: Elizabeth Walker (VRWA)

Discussion on all aspects of water chemistry: Pre-oxidation, Coagulation, Flocculation, pH control, Disinfection, Dewatering, Corrosion Control. Jar testing will include math for dilutions, parameter testing, and calculation of pump settings for scale up to production.

Revised Total Coliform Rule

Date: June 27, 2019

Time: 9:00am-12:30pm

Location: Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT (please park across the street in the recreation field parking lot)

Credit: 3 TCH

Non-member cost: \$30



Member cost: \$24

Instructors: Ben Montross, Jeff Girard and/or David Love (VT DEC)

Proctor: Matt Guerino (VRWA)

This course will look at key portions of the Revised Total Coliform Rule, which went into effect in April 1, 2016. It will discuss the following topics: major differences between the current Total Coliform Rule and the Revised Total Coliform Rule; monitoring under the RTCR, including baseline compliance sampling frequency, repeat sampling, additional routine sampling, and triggers for increased monitoring; the various new "triggers" under the RTCR; Level 1 and Level 2 site assessments and corrective actions required under the RTCR; and the various violations under the RTCR.



GET STARTED! Go to www.suncoastlearning.com and click on Vermont.

VRWA has partnered with SunCoast Learning to provide quality online training, written FOR water and wastewater professionals BY water and wastewater professionals.

The following courses (and more) are available in Vermont for water and/or wastewater hours, ranging from 1 to 10 TCHs. Cost is \$25 - \$225. Courses in italics are accessible with mobile devices.

Advanced Math · Applied Confined Space Safety · Basic Environmental Chemistry · Basic Wastewater · Basic Water Works · Chemical Feed Systems & Pump Calibrations · Chlorinator Systems and Chemical Handling · Customer Service Inspection & Cross-Connection Control · Disinfection By-products · Dissolved Air Flotation · Drinking Water Filtration, A - Z · Hazard Communication · Maintaining Water Quality in the Distribution System · Membrane Treatment of Wastewater · Operator Handbook · Pump and Motor Maintenance · Small Water Systems 1 · Surface Water Production 1 · Surface Water Production 2 · Surface Water Treatment · Understanding Stage 2 Disinfection By Product Rule · Valve and Hydrant Maintenance · Wastewater Collection · Wastewater Treatment · Water Transmission and Distribution

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5 Operations Refresher	6
7	8	9	10 Class 2 Certification	11 Class 2 Certification	12 Metering	13
14	15	16 WET Testing	17 Class 2 Certification	18 Class 2 Certification / VOSHA	19 Sample Training	20
21	22	23 WET Testing	24 Class 2 Certification	25 Class 2 Certification / VOSHA / Ethics	26	27
28	29	30 VOSHA / Class 2-3-4-D Exam Prep				

May 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2 VOSHA	3	4
5	6	7	8 VRWA Conference	9 VRWA Conference	10	11
12	13	14 Ethics	15 Discharges From Breweries	16	17 Sample Training	18
19	20	21	22	23	24	25
26	27	28	29	30 Discharges From Breweries	31	

June 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4 Sample Training / WW Math	5 Line Replacement Planning	6 Collection Systems	7	8
9	10	11 WW Math / Leak Detection	12 Leak Detection	13 Corrosion Control / INFLO SBRs	14 Line Replacement Planning	15
16	17	18 WW Math	19 Comprehensive Chemistry	20 Collection Systems	21	22
23	24	25	26	27 RTRC	28	29
30						

Vermont Rural Water Association Annual Conference & Trade Show

May 8-9, 2019 · Lake Morey Resort · Fairlee, Vermont

Who Should Attend

Operators, managers, board members, trustees and other representatives of water and wastewater systems, as well as regulators and industry vendors.

Location

Lake Morey Resort, Fairlee, Vermont. Fairlee is near the Vermont–New Hampshire border about 20 miles north of White River Junction. Directions: From I-91, take Exit 15. The resort entrance road is just west of the exit.

Sessions

The early-bird session will begin at 8:00am on Thursday, May 9. Other sessions will take place throughout the day beginning at 9:30am. Detail on sessions will be shown on our website. Topics tentatively scheduled to include:

8-9 am: Controlling Your Plant: SCADA
9:30–11 am: Funding Options for Capital Improvements
9:30–11 am: Management Issues Roundtable
1:15–2:15 pm: Rebuilding a CWS: Operator's Perspective
1:15–2:15 pm: Navigating Procedures on the OPR Website

Training contact hours for water and wastewater operators will be awarded. Earn up to 3.5 TCH.

Luncheon & Annual Meeting

Our awards luncheon and Annual Meeting is the perfect chance to talk shop with your peers. Our Keynote Speaker this year is VOSHA Manager Dan Whipple.

Register today at

VTRURALWATER.ORG

Registration Information

Deadline: Two business days before course date. Registrations received less than two days before a session are subject to a \$20 late fee. **No walk-ins allowed. Sign-in begins 15 minutes before the start of the course.**

Register on the web:

www.vtruralwater.org

Register by mail: Complete the form below and send it with a check or money order for the full amount to:

VRWA
20 Susie Wilson Road, Suite B
Essex Jct., VT 05452

Register by fax: You may complete the form below and fax it to **866-378-7213**.

Seating is limited, so register early. Your cancelled check confirms your registration; you will only be notified if the course is cancelled.

Fees

Due to government support secured by VRWA, we are able to offer courses at a reduced rate. The actual training is free of charge, but all courses have a materials fee.

Cancellations / Refunds

If you will be unable to attend a class, you must contact our office at least 24 hours in advance to receive a refund.

Member rate

VRWA member systems receive a 20% discount. To join VRWA, call 802-660-4988 or visit www.vtruralwater.org.

Special needs

Please contact us at 802-660-4988 prior to your class if you have any special needs.

Credit

Training Contact Hours (TCHs) are awarded for all training courses. These are applicable for operator certification in Vermont. You must attend 100% of the course in order to receive TCHs. Course objectives determine whether credits are applicable to a water operator or a wastewater operator's certification; some courses apply to both types of certification. **All attendees will receive a record of TCHs earned after completing a course.** Reprints of lost TCH certificates are available for a fee.

Registration Form

Duplicate this form to sign up for more than one course.

Course Name _____

Date & Location _____

Attendee Name(s) _____

Facility/Business _____ **WSID# or WW#** _____

Address _____

City, State, Zip _____

Phone _____ Emergency Phone (for cancellations due to weather): _____

Email _____

Total Payment Enclosed _____

Questions? Call 802-660-4988.



20 Susie Wilson Rd., Ste. B
Essex Jct., VT 05452-2827
www.vtruralwater.org

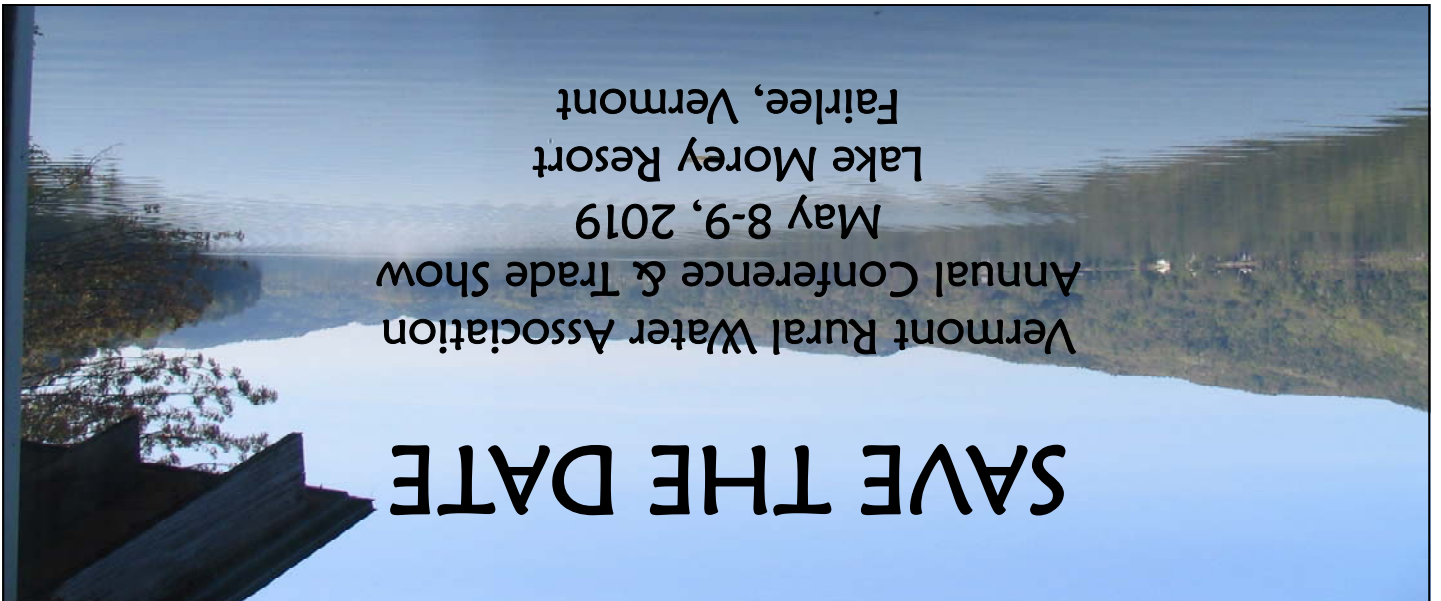
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To view the most current training schedule, visit www.vtruralwater.org

Do not discard until June 30, 2019.

**IMPORTANT WATER & WASTEWATER OPERATOR
TRAINING ANNOUNCEMENT ENCLOSED**



SAVE THE DATE

Vermont Rural Water Association
Annual Conference & Trade Show
May 8-9, 2019
Lake Morey Resort
Fairlee, Vermont