

Small Systems Class 2 Water Operator Certification Course

Dates & Locations (choose one):

- April 10, 11, 12 & 17, 9:00am-2:00pm, Putney Fire Department, 21 Carl Snyder Drive, Putney, VT
- April 18, 19, 25 & 26, 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)

Credit: 18 TCH

Non-member cost: \$180 (plus \$30 for textbook)

Member cost: \$144 (plus \$30 for textbook)

Instructors: Diana Butler (VRWA) / Matt Guerino (VRWA)

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*

TNC Operations

Dates & Locations (choose one):

- April 17, 9:00am-12:30pm, Grand Isle State Park, 31 Knight Point Rd, North Hero, VT
- May 29, 9:00am-12:30pm, Emory Hebbard State Office Building—State Conference Room, 100 Main St, Newport, VT
- June 14, 9:00am-12:30pm, Rutland Regional Planning Commission, 67 Merchants Row, Rutland, VT

Credit: 3 TCH

Non-member cost: \$30

Member cost: \$24

Instructors: Meredith Maskell & Bridget Phillips (DWGWP)

Proctor: Matt Guerino (VRWA)

This course is designed for Transient Non-Community (TNC) Water System Operators. No matter what your experience as a water system operator, this course will help you better manage your water system. For Class 1B operators, this course will fulfill the requirement to obtain 3 continuing education credits prior to renewal of your certification. The course will review the following topics: disinfecting your water system (UV and chlorine); sampling procedure and sampling schedules; sanitary survey review; common water system deficiencies; rules and regulations (current and upcoming rules); discussion of seasonal operations; basic site investigations.

Small Systems Exam Preparation Course

Date: May 1, 2018

Time: 9:00am-2:00pm

Location: Hartford Municipal Building, 171 Bridge Street, Conference Room 2, White River Jct, VT

Credit: 4 TCH

Non-member cost: \$40

Member cost: \$32

Instructor: Diana Butler (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.

Exam Preparation Course (Class 3/4/D)

Date: May 1, 2018

Time: 9:00am-2:00pm

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

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.

2-Day Wastewater Sampling and Daily Lab Procedures

Dates & Locations (choose one):

- June 5 & 12, 9:00am-3:30pm, The Annex, 190 Junctions Rd, Berlin, VT (near Montpelier WWTF)
- June 6 & 13, 9:00am-3:30pm, Newport Fire Department, 350 Western Ave, Newport, VT
- June 7 & 14, 9:00am-3:30pm, Brattleboro WWTP, 340 Riverside Dr, Brattleboro, VT

Credit: 12 TCH

Non-member cost: \$120

Member cost: \$96

Instructor: Andy Fish

Proctor: Elizabeth Walker (VRWA)

A great class for new operators or those needing a refresher. Your analytical data is useless if proper sampling and sound laboratory techniques have not happened. We will be covering sampling locations, proper lab techniques, equipment calibrations, quality assurance, calculations and reporting practices for the analysis of pH, Total Residual Chlorine and Settleable Solids. This is an excellent opportunity to learn from a person who has been evaluating laboratory procedures throughout New England for over 25 years. Bring lunch (coffee and snacks provided)

Leak Detection and Pipe Locating—With Hands-On Experience

Date: June 7, 2018

Time: 9:00am-2:00pm

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

Instructors: Warren Verga (360 Solutions) & 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.

Lagoon System Operations with Discussion on Nitrogen and Phosphorous Removal

Date: June 19, 2018

Time: 9:00am-3:30pm

Location: Hartford Municipal Building, 171 Bridge St, Conference Room 2, White River Junction, VT

Credit: 6 TCH

Non-member cost: \$60



Member cost: \$48

Instructor: Paul Olander

Proctor: Elizabeth Walker (VRWA)

This in-depth seminar will cover proper operation and troubleshooting of aerated lagoons. Learn the importance of good aeration, proper mixing, sludge removal and algae control in your lagoon process operation. Also hear about capacity increasing BOD treatment, “painless” sludge removal and algae control using barley straw. Discussion on nitrogen and phosphorous removal. A great review for certification exams. Bring lunch (coffee and snacks provided)

Optimize Your Water And Wastewater Pump Stations

Date: June 20, 2018

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

Instructor: John Benham (Pump Systems, Inc.)

Proctor: Wayne Graham (VRWA)

Water and wastewater operators and managers will learn how to effectively maintain and operate pump stations. Electrical components and failures will be covered in detail. We will cover basic hydraulic principles of centrifugal pumps, focusing on common problems, learning to detect, troubleshoot and make repairs. Proper planning will prepare you for breakdowns and the unexpected. This is a great class for exam preparation.

Understanding Your Motor Control Panels

Date: June 21, 2018

Time: 9:00am-3:00pm

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

Credit: 5 TCH



Non-member cost: \$50

Member cost: \$40

Instructor: John Benham (Pump Systems, Inc.)

Proctor: Wayne Graham (VRWA)

Water and wastewater operators, while not electricians, need to understand these critical components and possess the skills to troubleshoot problems. Also a great review class for exams as electrical theory, formulas and safety will be covered in detail. This is a hands on class, work stations with actual control panels will be used. Please bring your voltage/amp meter if you have one.

How To Prepare For A Sanitary Survey

Date: June 27, 2018

Time: 9:00am-2:00pm

Location: Okemo Mountain Resort, Sugar House Lodge, 556 Mountain Rd, Ludlow, VT

Credit: 4 TCH

Non-member cost: \$40

Member cost: \$32

Instructor: Matt Guerino (VRWA)

Designed for all water systems required to have a sanitary survey of their water system by the Drinking Water and Groundwater Protection Division, this seminar covers all aspects of a sanitary survey and how the water system operator can prepare for one. Topics covered include record keeping, source, treatment, disinfection, storage and distribution components that will be inspected during the survey. Sanitary surveys are designed to ensure that water systems are in compliance with the Water Supply Rule and provide safe drinking water to consumers.

Effective Utility Management

Date: June 28, 2018

Time: 8:30am-2:30pm

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

Credit: 5 TCH

Non-member cost: \$50

Member cost: \$40

Instructors: Paul Sestito and Diana Butler (VRWA)

This workshop is designed to assist utilities in addressing the challenges and improving the management of their operations and infrastructure. Topics will include: How to deliver increasingly efficient and higher quality services. How to improve long-term sustainability and increase resiliency. How to use the Rural and Small Systems Guidebook to Sustainable Utility Management to make improvements at your system. Through group and individual exercises, including team and self-assessments, participants will learn how utilities can make improvements in ten key management areas, with a focus on their most pressing challenges. *BRING A LUNCH*

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4 Class 3/4 Certification	5 Class 3/4 Certification	6	7
8	9	10 Class 2 Certification	11 Class 2 Certification	12 Class 2 Certification	13	14
15	16	17 Class 2 Certification / TNC Operations	18 Class 2 Certification	19 Class 2 Certification	20 Basic Math	21
22	23	24	25 Class 2 Certification	26 Class 2 Certification	27	28
29	30					

May 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 Exam Prep	2	3	4	5
6	7	8	9 VRWA Annual Conference & Trade Show	10 VRWA Annual Conference & Trade Show	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29 TNC Operations	30	31		

June 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5 Wastewater Sampling & Lab Procedures	6 Wastewater Sampling & Lab Procedures	7 Wastewater Sampling & Lab Procedures / Leak Detection	8	9
10	11	12 Wastewater Sampling & Lab Procedures	13 Wastewater Sampling & Lab Procedures	14 Wastewater Sampling & Lab Procedures/ TNC Ops	15	16
17	18	19 Lagoon System Operations	20 Pump Stations	21 Motor Control Panels	22	23
24	25	26	27 How To Prepare For A Sanitary Survey	28 Effective Utility Management	29	30

Vermont Rural Water Association Annual Conference & Trade Show

May 9-10, 2018 · 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 10. 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: Ice Pigging
- 9:30–11 am: Recruiting for the Future
- 9:30–11 am: Sampling Seminar
- 1:15–2:15 pm: Boil Water Notice
- 1:15–2:15 pm: Phosphorous Optimization Plan Guidance

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 Vermont DEC Commissioner Emily Boedecker.

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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CURRENT RESIDENT OR

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

Do not discard until June 30, 2018.

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

