

## Small Systems Class 2 Water Operator Certification Course

Dates & Locations (choose one):

- October 3, 10, 11 & 12, 9:00am-2:00pm, Vermont Rural Water Association, 20 Susie Wilson Road, Essex Jct, VT
- October 18, 19, 25 & 26, 9:00am-2:00pm, Rutland Water Treatment Plant, 1139 Post Road Extension, Rutland, VT

Credit: 18 TCH



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

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

Instructor: Matt Guerino

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\***

## Informational Network For Local Operators (INFLO) Phosphorus Roundtable

Date: October 12, 2017

Time: 9:00am-12:00pm

Location: West Rutland Town Hall Auditorium, 35 Marble Street, West Rutland, VT

Credit: 3 TCH



Non-member cost: \$30

Member cost: \$24

Instructors: Vermont Wastewater Specialists and Managers

Proctor: Elizabeth Walker (VRWA)

This INFLO meeting will be an open forum roundtable discussion on phosphorus removal success stories and failures. Who better to learn from than the wastewater specialists and managers in the field. All types of wastewater treatment processes will be represented as we discuss in detail phosphorus removal options.

## Optimize Your Water and Wastewater Pump Stations

Date: October 17, 2017

Time: 8:00am-12:00pm

Location: Putney Fire Station, 21 Carl Snyder Drive, Putney, VT

Credit: 4 TCH

Non-member cost: \$40

Member cost: \$32

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.



## Lead and Copper Rule Overview

Date: October 17, 2017

Time: 9:00am-12:30pm

Location: Okemo Mountain Resort, Okemo Valley Golf Club, 89 Fox Lane, Ludlow, VT

Credit: 3 TCH

Non-member cost: \$30

Member cost: \$24

Instructors: Ben Montross & Amy Galford (DWGWP)

Proctor: Matt Guerino (VRWA)

This 3-hour course is designed for operators and water system administrators who want to understand the basics of the Lead and Copper Rule and how it applies to their systems. Topics to be covered include sources of lead and copper; monitoring schedules; sampling plans and sampling procedures; how results are used in compliance determinations, including calculating the 90th percentile result; sending results to testing participants; public education requirements; timelines under the rule including installation of treatment; and a general overview of corrosion control requirements.



## Exam Preparation Course (Class 3/4/D)

Date: October 31, 2017

Time: 9:00am-1:30pm

Location: Rutland Regional Planning Commission, 67 Merchants Row, Rutland, 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.



## Small Systems Exam Prep Course

Date: November 1, 2017

Time: 9:00am-1:30pm

Location: Vermont Rural Water, 20 Susie Wilson Road, 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 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.

## Update Your Water and Wastewater Ordinances

Date: November 29, 2017

Time: 9:00am-12:00pm

Location: Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT

Credit: 3 TCH

Non-member cost: \$30



Member cost: \$24



Instructor: Joe Duncan, PE (CWD)

Proctor: Wayne Graham (VRWA)

Ordinances are vital to properly managing your water and wastewater systems. Attendees will be advised on what makes a great ordinance and taught how to update existing ordinances that will protect your community with a stronger legal standing. Actual examples of what can happen when ordinance protection is not in place to protect water and wastewater systems will be discussed. Please bring copies of your ordinances.

## How To Prepare For A Sanitary Survey

Dates & Locations (choose one):

- December 6, 9:00am-1:30pm, Vermont Rural Water Association, 20 Susie Wilson Road, Essex Jct, VT
- December 14, 9:00am-1:30pm, Hartford Town Hall, 171 Bridge Street, White River Junction

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.

## 3-Day Advanced Activated Sludge Process Control & Optimization

Date: December 6, 7 & 13, 2017

Time: 8:30am-3:30pm

Location: Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT

Credit: 18 TCH

Non-member cost: \$180



Member cost: \$144

Instructor: Eric Wahlberg (WasteWater Technology Trainers)

Proctor: Wayne Graham (VRWA)

The objective of this class is to give activated sludge front-line supervisors and operators, and process control operators and engineers, a more in-depth understanding of the activated sludge process. With this understanding, effluent quality variability and process energy usage can be reduced. Topics to be presented include: wastewater characterization, biological N & P removal, the importance of sludge quality, measuring and controlling sludge quality, WAS flow control, BOD conversion vs. removal, RAS flow optimization, secondary clarifier performance diagnostic testing, and a state point analysis.

### Key



= approved for water credit



= approved for wastewater credit



### A Sample of our Courses:

*VRWA is partnering with SunCoast Learning to provide quality online training, written FOR water and wastewater professionals BY water and wastewater professionals.*

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#### BASIC WATER WORKS - Course modules:

- Operations of the Water Utility
- Water Characteristics
- Water Quality Standards
- Disinfection
- Groundwater and Wells
- Surface Water Production
- Distribution & Safety

#### WASTEWATER TREATMENT - Course Modules:

- Wastewater Management, Goals, Laws and the Operator
- Wastewater Characteristics
- Wastewater Pretreatment
- Wastewater Collection Systems
- Preliminary Treatment
- Primary Sedimentation
- Activated Sludge
- Fixed Film Processes
- Pond Systems
- Processing Wastewater Sludge
- Wastewater Disinfection
- Wastewater Safety



Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3 Class 2 Certification	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 / INFLO Phosphorus	13	14
15	16	17 Optimize Your Pump Station / Lead and Copper Rule	18 Class 2 Certification	19 Class 2 Certification	20	21
22	23	24	25 Class 2 Certification	26 Class 2 Certification	27	28
29	30	31 Exam Prep—Class 3/4/D				

## November 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 Exam Prep—Class 2	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29 Update Your Ordinances	30		

## December 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6 Activated Sludge / Sanitary Surveys	7 Advanced Activated Sludge Process Control	8	9
10	11	12	13 Advanced Activated Sludge Process	14 How To Prepare For A Sanitary Survey	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						



INFLO Phosphorus Roundtable, Burlington, June 2017

## 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](http://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](http://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](http://www.vtruralwater.org)

Do not discard until December 31, 2017.

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

- Membership**  
VRWA membership provides the following benefits to your system:
- Preferred scheduling for onsite visits
  - Phone consultations
  - Source protection planning
  - Quarterly training announcements
  - Quarterly newsletter
  - 20% discount on all applicable fees
  - Free classified ads on VRWA's website
  - Networking opportunities
  - Representation for your system at the state and national level
  - Advocacy for continuation of rural water programs and services