

Optimize Your Water And Wastewater Pump Stations

Date: January 8, 2019

Time: 9:00am-12:30pm

Location: City of Rutland WWTF, 110 Green Hill Lane, Rutland, VT

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: January 9, 2019

Time: 9:00am-2:00pm

Location: City of Rutland WWTF, 110 Green Hill Lane, Rutland, 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, 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.



Sampling Seminar

Dates & Locations (choose one):

- January 15, 8:30am-1:00pm, Burlington Main WWTF, 53 Lavalley Lane, Burlington, VT
- January 29, 8:30am-1:00pm, Hartford Town Offices, 171 Bridge Street, White River Junction, VT

Credit: 4 TCH

Non-member cost: \$40

Member cost: \$32

Instructors: Rod Lamothe (Endyne), Eamon Twohig and Amy Polacyk (VT DEC)

Proctor: Elizabeth Walker (VRWA)

Designed for water and wastewater operators or representatives of these systems, this seminar covers sampling protocol and recommended procedures will be covered in detail. Reviewing basic sampling on chemical, bacteriological samples. BOD, TSS, and other frequently sampled constituents. Updating your Field Form/Chain-of-Custody for labs. It will also cover monitoring requirements in residuals certifications and npdes permits and delve into some details on sampling methods for matrices such as sludges, soils, groundwaters, and/or ww influents/effluents. Discussion of Proficiency Testing - what it is, why it is required, how it should be reported, and a review of frequently asked questions.



Water and Wastewater System Ethics

Dates & Locations (choose one):

- January 17, 9:00am-1:30pm, Newport Fire Department, 350 Western Avenue, Newport, VT
- February 13, 9:00am-1:30pm, City of Rutland WWTF, 110 Green Hill Lane, Rutland, 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.



TNC Operations

Dates & Locations (choose one):

- January 23, 9:00am-12:30pm, The Annex, 190 Junction Road, Berlin, VT
- February 6, 9:00am-12:30pm, Ludlow Town Office—Conference Room, 37 Depot Street, Ludlow, VT

Credit: 3 TCH

Non-member cost: \$30

Member cost: \$24

Instructors: Meredith Maskell & Bridget Phillips (DWGWP)

Proctor: Diana Butler (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.



Key

 = approved for water credit

 = approved for wastewater credit

Comprehensive Water and Wastewater Chemistry With Jar Tests

Date: January 23, 2019

Time: 8:00am-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: 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.

Basic Excel Course

Dates & Locations (choose one):

- January 24, 9:00am-12:30pm, Vermont Rural Water Association, 20 Susie Wilson Road, Essex Junction, VT
- February 7, 9:00am-12:30pm, Newport Fire Department, 350 Western Avenue, Newport, VT

Credit: 3 TCH

Non-member cost: \$30



Member cost: \$24



Instructor: Matt Guerino (VRWA)

This training will cover computer operation fundamentals and the basics of Excel, as used by water and wastewater treatment plant operators and other system personnel. Participants will learn the basics of Excel spreadsheets. This course is recommended for operators and others with some working experience with computers. Each attendee will be working on a dedicated laptop computer as provided by VRWA throughout the training session. *Registration limit of 10 individuals per session, first come first basis.*

Residuals Management In Vermont

Date: February 5, 2019

Time: 9:00am-12:15pm

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

Credit: 3 TCH

Non-member cost: \$30



Member cost: \$24

Instructor: Eamon Twohig (DEC Waste Management)

Proctor: Wayne Graham (VRWA)

This class provides an overview of Vermont's residuals program including regulations, management options and challenges associated with sludge and biosolids management.

Basic Math for Water and Wastewater Operators

Dates & Locations (choose one):

- February 15, 9:00am-12:30pm, Vermont Rural Water Association, 20 Susie Wilson Rd, Essex Junction, VT
- March 29, 9:00am-12:30pm, Rutland Regional Planning Commission, 67 Merchants Row, Rutland, VT

Credit: 3 TCH



Non-member cost: \$30



Member cost: \$24

Instructor: Matt Guerino (VRWA)

This is a basic math course for operators. The formulas covered will be area, volume, psi, temperature and detention time.

Advanced Operator's Certification Class 3&4

Date: February 20, 21, 27 and March 6, 13, 20, 21, 27, 28, 2019

Time: 9:00am-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: 45 TCH

Non-member cost: \$225 (plus \$265 for books)



Member cost: \$180 (plus \$265 for books)

Instructors: Matt Guerino (VRWA) and other presenters

This training program is designed for new Class 3 & 4, for those training to become operators. The program will prepare individuals to take the Vermont State Class 3 & 4 water operator certification exams. All aspects of water operations are covered during this multi-week course. Attendees are expected to attend all the given sessions. The following texts are required for this course and can be ordered directly from VRWA: AWWA Water Treatment · AWWA Water Treatment Operator Training Handbook · AWWA Operators Certification Exam Preparation · Math Handbook for Water System Operators

Distribution Course

Date: February 20, 27, 28 and March 6, 7, 14, 2019

Time: 9:00am-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: 30 TCH

Non-member cost: \$150 (plus \$245 for books)



Member cost: \$120 (plus \$245 for books)

Instructors: Matt Guerino (VRWA) and other presenters

This course is designed for those involved with the distribution of potable water who are seeking a Class D certification. The texts for this course will be: AWWA Water Distribution · Math Handbook for Water System Operators · AWWA Water Distribution Operator Training Handbook · AWWA Operators Certification Exam Preparation. Topics in this class will include: Distribution certification, Water Supply Rule, Water sampling procedures, Basic water chemistry, Water hydraulics, Distribution system design, Tank design, Blueprint reading, Pumps and pumping, Valve operation and maintenance, Cross connections, Hydrants and flushing program, Meters and backflow, Leak detection, VOSHA regulations, Instrumentation and controls & Water mathematics

TNC Coliform Sampling Class

Date: February 20, 2019

Time: 9:00am-12:30pm

Location: VT Department of Health Laboratory, 359 S. Park Drive, Colchester, VT

Non-member cost: \$30



Member cost: \$24

Instructors: Meredith Maskell & Bridget Phillips (DWGWP)

Proctor: Diana Butler (VRWA)

This 3-hour class is specially designed for transient non-community (TNC) water system operators. Partnering with the VT Department of Health Laboratory, the VT DWGWP TNC Program presents a detailed training session about total coliform bacteria sample collection and analysis. In the first half of the course, operators will learn why sampling for total coliform bacteria is required, how monitoring schedules are determined, choosing your sample locations, best practices for sample collection and handling, what coding means and what coding to use on laboratory paperwork, and other topics relevant to total coliform bacteria monitoring. During the second half of the course, operators will receive a tour of the Vermont Department of Health laboratory for a behind-the-scenes perspective of sample receipt, analysis, and reporting.

Metering In The 21st Century

Dates & Locations (choose one):

- March 8, 9:00am-12:30pm, Vermont Rural Water Association, 20 Susie Wilson Road, Essex Junction, VT
- April 12, 9:00am-12:30pm, Rutland Regional Planning Commission, 67 Merchants Row, Rutland, VT

Credit: 3 TCH

Non-member cost: \$30



Member cost: \$24

Instructor: Dave Harris (Ti-Sales)

Proctor: Matthew Guerino (VRWA)

This course will bring you through the first meters used at water systems through today. It will discuss direct reading units, mobile and fixed network metering. The course will also review billing and accurate reading of meters along with how to correctly read meters and how to install and proper sizing of meters. We will look at testing and changing out meters and a brief discussion on no-lead changes. Be prepared for an entertaining look at metering.

Keep Your Systems Sustainable

Date: March 14, 2019

Time: 8:00am-12:30pm

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

Credit: 4 TCH



Non-member cost: \$40



Member cost: \$32

Instructor: Joe Duncan, PE (Champlain Water District)

Proctor: Wayne Graham (VRWA)

Learn how to protect your water and wastewater assets by setting up budgets, having effective rates, planning for capital replacements and understanding the allocation process. This class will help you ensure the sustainability of your municipal water and wastewater infrastructure.

Drinking Water Operator Sample Training

Date: March 22, 2019

Time: 9:00am-12:30pm

Location: Newport Fire Department, 350 Western Avenue, Newport, VT

Credit: 3 TCH



Non-member cost: \$30

Member cost: \$24

Instructors: Janelle Wilbur, 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.



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
6	7	8 Optimize Your Pump Stations	9 Motor Control Panels	10	11	12
13	14	15 Sampling Seminar	16	17 Ethics	18	19
20	21	22	23 TNC Operations / Chemistry	24 Basic Excel	25	26
27	28	29 Sampling Seminar	30	31		

February 2019

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

March 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6 Class 3/4/D	7 Class D	8 Metering	9
10	11	12	13 Class 3/4	14 Class D / Sustainability	15	16
17	18	19	20 Class 3/4	21 Class 3/4	22 Sampling	23
24	25	26	27 Class 3/4	28 Class 3/4	29 Basic Math	30
31						



SBR Training with Michael Girardi, Essex Junction

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Rural Water Association



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.



Vermont
Rural Water Association

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 March 31, 2019.

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

