NH DES WASTEWATER OPERATOR TRAINING  
FALL 2017 COURSE DESCRIPTIONS

Granite State Rural Water Association  
See 2017 Training Events listing for dates and classes offered at [http://granitestatewater.org](http://granitestatewater.org) for the class descriptions and to obtain the registration form OR call Granite State at 603-756-3670 

No Walk-ins please. Many of the Classes offer Education Credit Recognized by BOTH NH Water and Wastewater Certification Renewal Programs. A Very Good BUY☺

TAKE NOTE

Ed credit approved for WW operators

White Mountains Community College (WMCC) has a General Studies degree that students can design themselves. There are requirements for a certain number of credits in Humanities, Social Science, Math, English, Science, etc. that can be taken just about anywhere, some may even be offered on-line, and then I believe it is 33 credits in a major or concentration, of the students choosing. WMCC offers 10 Water Quality Technology courses on-line (30 credits) and 1 self-directed, independent study course (3 credits). So it would be possible for a student to earn an Associate’s Degree without ever setting foot on the Berlin campus. Another advantage is that a student can design the degree to include college level courses that they already have taken. Students can contact Sheldon Towne directly if they wish to discuss this option.

Info submitted by Sheldon Towne

stowne@ccsnh.edu 603-616-8663 If WMCC doesn’t offer one of the courses online, another of the community colleges likely does and students can transfer credits.

Academic Technology and Distance Learning Department

24/7 Phone, Live Chat and FAQ Help: [http://ccsnh.edusupportcenter.com](http://ccsnh.edusupportcenter.com)

For training e-mail: distancelearningtraining@ccsnh.edu

Ed credit approved for WW operators

NH Bureau of Education and Training

Year round classes offered by BET are open to state & municipal employees.

The BET registration form: [http://das.nh.gov/hr/documents/Registration%20Form.pdf](http://das.nh.gov/hr/documents/Registration%20Form.pdf)  

Contact info: Robin Hoyt at Robin.Hoyt@NH.Gov or 271-1429. To view the complete BET course catalogs, which include Lean process improvement techniques, soft skills programs, and computer skills classes: [https://das.nh.gov/hr/trdev.html](https://das.nh.gov/hr/trdev.html) or call 603-271-1429.

Contact MJ Meier to request ww ed credit approval before you register!

So Many Ways to Learn

NEED Education credit in a hurry?

Your Certification Committee has approved training credit for classes offered on-line thru CEU Plan found at [www.ceuplan.com](http://www.ceuplan.com); RedVector at [www.redvector.com](http://www.redvector.com); Courses from Roy Pelletier found at [www.royceu.com](http://www.royceu.com) or call 386-574-4307; and Hazmateam Inc. at [www.hazmateam.com](http://www.hazmateam.com); Paula Jackson provides training in NH find info at [www.earthwaterspecialists.com](http://www.earthwaterspecialists.com) 

Correspondence style courses offered through SkillWorks, Inc. found at [www.skillworks.com](http://www.skillworks.com) or call 508-393-3973; Primex³ offers classes to its members on-line and in-person at the office in Concord, NH for topics and information go to [http://www.nhprimex.org/EducationTraining/index.php](http://www.nhprimex.org/EducationTraining/index.php)

Class location info available thru BET

NEIWPC News

Register online now for NEIWPC’s Fall 2017 Courses!

NEIWPC’s Fall 2017 course catalog online registration is available. If you are interested in enrolling in any of their classes in New England and would like to sign up online, please go to [https://portal.neiwpcc.org/training-calendar.asp](https://portal.neiwpcc.org/training-calendar.asp)

If you prefer to mail or fax your registration, access the complete course catalog at [http://click.neiwpcc.org/training/training-docs/current_train_cat.pdf](http://click.neiwpcc.org/training/training-docs/current_train_cat.pdf)  

The catalog includes a registration form.

NOTE- Both training classes offered in NH are approved for WW Ed credit only
NEWWTAs presents: Wastewater Treatment Certification Prep Course- Grades I & II  
_Taught by: Gregory Kidd- NEWWTA   Course # 2017-NH_
Meets on Tuesdays, this 5-day course is designed for introductory training in the wastewater operations field. People with little or no wastewater operations experience are encouraged to attend. Topics include principles and practices involved with collection, treating, and disposing of ww and ww biosolids. Excellent prep for Grades I and II Certification Exams. Bring a calculator to class please!
Fee includes NEWWTA’s customized ACR Publications Wastewater Systems manual.  
Please register by September 1, 2017.
Use the NEWWTA enrollment form. Make checks payable and Mail directly to NEWWTA.  
Option to register on-line at www.newwta.com or via e-mail to gkidd@gwi.net

“What’s Flushable?”, The EPA Septic Smart Program, Grease Traps & Interceptors  
_Taught by: Ray Gordon- NH DES_
Learn about subsurface regulations relating to grease interceptors. MA & NH regulations will be covered. Class includes What’s Flushable and EPA Septic Smart Programs. Education Credit 0.3 CEUs approved for NH WW Operators, NH Subsurface Designers and Installers, and MA Title 5 System Inspectors. Driving Directions are available upon request. Contact Ray Gordon at 603-271-3571 or ray.gordon@des.nh.us with questions. Use separate Registration form at http://www.nhw pca.org/wp-content/uploads/2017/07/3-Hour-Subsurface-Class-Fall-2017.pdf Make checks payable to NHWPCA and mail to NH DES

NHWPCA Fall Meeting at Manchester EPD WWTF  
Come see the many new features of the improved Manchester WWTF. Attendees will earn 0.1 CEU for attending the wWTF facility presentations and 0.1 CEU for the lunchtime presentation. If you’re interested in becoming a member, contact any Association officer for an application, or visit nhwpca.org Refer to your individual NHWPCA-member mailing, the web site, or the Collector Newsletter for meeting description and details.  
Separate Mailing and Registration by September 1, 2017 directly to NHWPCA

Pump Station Protection and Combating Wipes  
_Taught by: Heidi Lemay and Ray Gordon – DES; Warren Brown- Aqua Solutions; Guest Speakers : Ken Conaty- Merrimack WWTF & Eric Swope – Keene WWTF_
An increasing number of personal products are labelled as flushable- but many create serious problems once they reach the septic tanks, collection systems and wWTF. Your collection system is a prime target. Learn about the equipment that grinds and shreds these products and options for finer screening to reduce the bypass of materials to your wWTF. We’ll also discuss how to reduce the amount of materials being hauled to landfill by more efficient washing & compaction of removed screened material. Learn about products to avoid and how you can educate the public on what is flushable. Copies of the NH “What’s Flushable” brochure will be supplied for distribution within your community. Pre-Registration Required. Lunch is included.  
Make checks payable to NHWPCA and mail to NH DES

Aeration Systems – The Science Behind Selecting and Operating A System to Fit Your Needs  
_Taught by: Mike Caso- Technology Sales Associates; Tom Leland- Ovivo_
Aeration accounts for about 50% of a wastewater treatment plant’s energy bill and can consume significant maintenance resources to maintain performance. These systems are a key component in wWTF treatment systems as effluent discharge permits continue to limit the pollutant concentrations, while the number of monitored parameters increases. This class will compare many different types of blowers and diffusers, their application, features and the advantages offered to help meet your process and permit requirements. Learn the importance of monitoring DO levels and the instruments that perform the best.  
Make checks payable to Treasurer State of NH and mail to NH DES
OCT 18
Wednesday
8:30 am – 2:30 pm
$40
0.5 CEUs
FTC
Odor Control Technologies
Taught by: Jeff Jones- ECS Environmental Solutions; Paul Sussman– The Maher Corp
This seminar will cover the fundamentals of odor and approaches to control, and explore operational practices to minimize odors, treat odors, and deal with complaints. A section on factors to consider when choosing the proper system for your application will be added. ECS offers a complete line of odor control options including chemical feed, carbon units, biotowers, engineered media biofilters and vapor phase chemical scrubbers. Don’t miss the opportunity to learn about the planning, design and operation of wastewater facilities and effective odor control.
Make checks payable to Treasurer State of NH and mail to NH DES

OCT 24
Tuesday
8:30 am- 2:30 pm
$40
0.5 CEUs
FTC
Taking Steps to Prevent Mechanical Failures and to Save Money
Taught by: Ed Acus – HCS Pumps; Mike Sullivan – Applied Dynamics, Inc. & Jim Smith- IVC Technologies
Every function at your facility relies on continuous operation of your equipment. This workshop will focus on pumping systems to include a segment on pump sizing for centrifugal and positive displacement pumps. Learn the fundamentals of mechanical seals- the different types, arrangements and selections to achieve optimum performance, to avoid catastrophic failure, and costly equipment damage. Also to be covered are Condition monitoring techniques that should be used & why the results of these inspections can provide value added information to help prolong equipment life and save you money in the long run. Enrollment limited to 30.
Training hours approved for Water & WW programs.
Make checks payable to Treasurer State of NH and mail to NH DES

OCT 25 & 26
Wednesday  &
Thursday
$150
Radisson Inn
Chelmsford, MA
CEUs offered
Separate
Registration
Required
Pretreatment Coordinators Workshop, 19th Annual EPA New England
New England Regional Pretreatment Coordinators Association (NERPCA) and EPA New England are sponsoring a workshop to address the varied needs of municipal pretreatment personnel. Advanced to basic pretreatment training, discussions, and presentations will be provided by local, state, and federal government representatives, as well as experts from outside the government. Attendance at this conference is strongly encouraged for all municipal industrial pretreatment personnel. Due to the nature of this conference, registration is limited to federal, state and local government staff (and their consultants, if applicable). Includes Breakfast & Lunch both days and Networking reception first evening Oct 25. Registration forms must be postmarked no later than October 11, 2017. For more information visit [www.NERPCA.org](http://www.NERPCA.org) or contact Justin Pimpare at 617-918-1531 or pimpare.justin@epa.gov Registration forms, on-line registration, proposed agenda, hotel and payment information available at [http://www.nerpca.org/annual_conference.html](http://www.nerpca.org/annual_conference.html)

OCT 25, 26 & 27
Wednesday thru
Friday
Cost Info see web link
NEBRA & NEWEA present: Managing Residuals In a Complex World- Burlington VT
Biosolids & residuals recycling advances soil health, renewable energy & community sustainability. Doing more with these organics adds complexity, opportunities & challenges. It takes research, experience, technology, communication – all topics to be addressed at this event for ww utility staff, managers, companies, engineers, policy-makers, and biosolids & residual users from around New England, NY, Quebec, and beyond. For more information visit [www.NEWEA.org](http://www.NEWEA.org) Registration costs and forms, on-line registration, proposed agenda, hotel and payment information available at [www.NEWEA.org](http://www.NEWEA.org).

OCT 31
Tuesday
8:30 am – 2:30 pm
$75
0.5 CEUs
FTC
NEWWTA presents: NPDES Laboratory: Sample Collection & Preservation
Taught by Gregory Kidd- NEWWTA Course #: 13017 –NH
This class is designed for ww operators & maintainers who may be required to collect samples for NPDES compliance. Topics include principles and practices for sample collection & preservation including excerpts from 40 CFR Parts 136 Approved Methods sample preservation & holding times Please bring a calculator to class. Use the NEWWTA enrollment form. Make checks payable and mail directly to NEWWTA. Option to register on-line at [www.newwta.com](http://www.newwta.com) or via e-mail to gkidd@gwi.net
**Measures to Safeguard Your Waste Collection System & Treatment Components**
*Taught by: Billy Roy – Knowles Industrial Services Corporation & Ray Gordon– NH DES*

**Residuals Management**

Joining the Fats, Oil and Grease training is a firm specializing in concrete repair and coating/lining condition assessments for sewer systems and headworks channels and much more. See how specialized coatings can offer protection from deterioration in your collection system. Learn how & why FOG impacts the collection system and basic methods to treat the problems it creates. Participants will learn about NH regulations, how to inspect FOG sources, and receive information on how to develop or improve their own FOG management program.  Pre-Registration Required. Lunch is included.

**Make checks payable to NHWPCA and mail to NH DES**

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**Asset Management Workshop**

NHDES is hosting its 4th Annual Asset Management Workshop-“The Next Generation”.

All levels of experience with AM programs are welcome to attend. This training will provide Water, Stormwater and Wastewater operators & managers with means and methods on how to leverage your current and/or future technology implementation to maximize asset management programs. There will be ample opportunity to discuss your ideas and network during the breakout sessions throughout the day. Please refer to the webpage for Registration and Payment information and the detailed agenda.

Contact Luis Adorno at DES 603- 271- 2472

Training hours approved for Water & WW programs.

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**NEIWPCC presents: Advanced Activated Sludge Process Control & Optimization**
*Taught by: Eric J. Wahlberg, PE, PhD- Wastewater Technology Trainers*

The class objective is to give activated sludge front-line supervisors and operators and process control operators and engineers a more in-depth understanding of the AS process. Based on the knowledge, effluent quality variability and process energy usage can be reduced. Refer to the separate registration form for further details on topics to be presented. Use the NEIWPCC registration form found at neiwpcc.org or on the DES web site. Checks Payable to NEIWPCC. Mail directly to NEIWPCC by October 23, 2017  
Sign in begins at 8:00 am.

Training hours approved for WW programs.

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**Fundamentals of Math for Operators**
*Taught by: Gregory Kidd- NEWWTA*

Math skills and problem solving are indispensable tools for all levels of wastewater professionals who use these skills in their jobs daily. Class focus is teaching an understanding of basic mathematical concepts and calculations. Fractions, decimals and percentage, unit calculation, basic algebra and ww formulas are some of the topics to be taught with an emphasis on ww math. Time will be allotted for individual instruction on all subjects presented. A pencil & the willingness to learn is required. Training hours approved for Water & WW programs. **Make checks payable to NHWPCA and mail to NH DES**

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**NEWWTA presents: Workplace Safety Series #1**
*Taught by Gregory Kidd- NEWWTA Course #: 13117 –NH*

This course is designed for Collection system, Water & WW treatment managers, operators and maintainers and Safety Officers. Topics include HazCom- GHS, procedures for atmospheric testing in confined spaces, control of hazardous energy sources, eyewash & safety showers, working safely with electricity and more. Use the NEWWTA enrollment form. **Make checks payable and mail directly to NEWWTA.** Option to register on-line at [www.newwta.com](http://www.newwta.com) or via e-mail to gkidd@gwi.net

Training hours approved for Water & WW programs.
**Applied Wastewater Math Review**

*Taught by NH DES Staff*

This class offers a review for those registered for all grades of the WW Certification exams. We will review basic math calculations including perimeters, surface areas, volumes and flow rates. Basic laboratory calculations such as BOD, TSS and VSS will be covered as well as percentage calculations. These basic math skills will then be applied to calculations of detention times, surface loading rates, sludge volumes, chlorine dosages, and percentage of BOD removal, F/M ratios, MCRT, pumping rates, required horsepower ratings and power consumption. The NHDES sanctioned wastewater formula sheet will be distributed at the beginning of the class. Bring calculator & pencils. Training hours approved for Water & WW programs

*Make checks payable to Treasurer State of NH and mail to NH DES*

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**NEIWPCC presents: CMOM Components & Managing Collection Systems**

*Taught by: Don Galluci – Weston & Sampson; Don Kennedy- NEIWPCC*

A sanitary sewer collection system is a vital element of a community’s infrastructure and a critical component of the WW treatment process. CMOM (Capacity, Management, Operations and Maintenance) is a predictive tool and a dynamic framework that provides an active approach to WW collection. Learn about WW industry practices to investigate capacity constraints, respond to overflow events, and develop capital improvement plans for future sustainability. Refer to the separate registration form for further details. *Use the NEIWPCC registration form found at neiwpcc.org or on the DES web site. Checks Payable to NEIWPCC.*

*Mail directly to NEIWPCC by November 7, 2017 Sign in begins at 8:00 am.*

Training hours approved for WW programs.

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**NEWWTA presents: Fundamentals of Secondary Wastewater Treatment**

*Taught by Gregory Kidd- NEWWTA Course #: 1917 –NH*

This class presents an overview of the objectives of the secondary treatment process, and the key components and types of operation & treatment processes. To include lagoons, fixed film media- RBC & trickling filters, SBR and Activated Sludge. *Use the NEWWTA enrollment form. Make checks payable and mail directly to NEWWTA. Option to register on-line at www.newwta.com or via e-mail to gkidd@gwi.net*

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**CERTIFICATION EXAMS—ALL GRADES**

*Separate Pre-Registration and Pre-Approval Required*

Applications are available from the NH DES Wastewater Operation Section by calling 603. 271.5553, or go to [www.des.nh.gov/organization/divisions/water/wweb/applications.htm](http://www.des.nh.gov/organization/divisions/water/wweb/applications.htm). Those interested are advised to submit applications to DES by October 11, 2017. The NH DES Certification Committee will notify applicants of their eligibility within 25 days of the exam date.

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**NHWPCA Winter Meeting at Newmarket WWTF**

Come see the features of the completely rebuilt Newmarket WWTF. If you’re interested in becoming a member, contact any Association officer for an application, or visit nhwpca.org. Refer to your individual NHWPCA-member mailing, the web site, or the Collector Newsletter for meeting description and details on Registration cost and CEUs. *Separate Mailing and Registration Required*