New England Onsite Wastewater Training Program @ URI

2018 Training Workshop Schedule

Do You Want to Install or Design BSF in RI and MA?

We offer required classes (including OWT 105, OWT 125 and OWT 150) throughout the year. Check the schedule for details.

Looking for a Class Closer to Home?

Register for OWT 135: All About Series: Septic Tanks Northern RI or OWT 140: All About Series: Septic Tanks in Danielson, CT

ONLINE REGISTRATIONS ARE NO LONGER POSSIBLE

Sponsored by:
University of Rhode Island College of Environment and Life Sciences - URI CELS
University of Rhode Island Department of Natural Resource Science
USDA National Institute of Food and Agriculture
Rhode Island Department of Environmental Management - RIDEM
Rhode Island Coastal Resource Management Council - RICRMC
Rhode Island Independent Contractors and Associates - RIICA
Consortium of Institutes for Decentralized Wastewater Treatment - CIDWT
US Environmental Protection Agency Region 1 - USEPA

URI Cooperative Extension - NEOWTC
U.S. Department of Agriculture
University of Rhode Island
Kingston, Rhode Island 02881-0804

New England Onsite Wastewater Training Program @ URI

2018 Training Workshop Schedule
<table>
<thead>
<tr>
<th>DATES</th>
<th>TIME</th>
<th>CODE</th>
<th>Fee (early/regular)</th>
<th>CLASS</th>
<th>MA Title 5 TCH</th>
<th>RIDEM CEU</th>
<th>Class</th>
<th>NHDES credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan.</td>
<td>8am-5pm</td>
<td>OWT105</td>
<td>$200/225</td>
<td>Innovative &amp; Alternative (I&amp;A) Technologies</td>
<td>8</td>
<td>SE-SI</td>
<td>I-IV</td>
<td>6</td>
</tr>
<tr>
<td>25</td>
<td>8am-5pm</td>
<td>OWT175</td>
<td>$200/225</td>
<td>Identifying and Managing High Strength Wastewater</td>
<td>8</td>
<td>SE/SI</td>
<td>I-IV</td>
<td>6</td>
</tr>
<tr>
<td>Feb.</td>
<td>8am-5pm</td>
<td>OWT180</td>
<td>$200/225</td>
<td>Design of Conventional Onsite Wastewater Treatment Systems</td>
<td>8</td>
<td>SE/SI</td>
<td>I-IV</td>
<td>6</td>
</tr>
<tr>
<td>8</td>
<td>8am-12:30pm</td>
<td>OWT150</td>
<td>$140/165</td>
<td>AutoCALCS – Automated BSF Sizing, Pump Calcs, &amp; Support Mat.</td>
<td>4</td>
<td>SE/SI</td>
<td>I-III</td>
<td>3</td>
</tr>
<tr>
<td>15</td>
<td>8am-5pm</td>
<td>OWT 145</td>
<td>$200/225</td>
<td>Pumps and Control Panels</td>
<td>8</td>
<td>SE/SI</td>
<td>I-III</td>
<td>3</td>
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<tr>
<td>March</td>
<td>8am-5pm</td>
<td>OWT105</td>
<td>$200/225</td>
<td>Innovative &amp; Alternative (I&amp;A) Technologies</td>
<td>8</td>
<td>SE-SI</td>
<td>I-IV</td>
<td>6</td>
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<tr>
<td>April</td>
<td>8am-5pm</td>
<td>OWT125</td>
<td>$200/225</td>
<td>Bottomless Sand Filter (BSF) Design and Installation</td>
<td>8</td>
<td>SE-SI</td>
<td>I-IV</td>
<td>3</td>
</tr>
<tr>
<td>May</td>
<td>3</td>
<td>8am-12:30pm</td>
<td>OWT140</td>
<td>All about series: Sand Media (Northern RI)</td>
<td>4</td>
<td>SE-SI</td>
<td>I-IV</td>
<td>3</td>
</tr>
<tr>
<td>10</td>
<td>8am-5pm</td>
<td>INSP100A</td>
<td>$230/255</td>
<td>Conventional Onsite Wastewater System Inspection</td>
<td>8</td>
<td>SI</td>
<td>I-IV</td>
<td>6</td>
</tr>
<tr>
<td>11</td>
<td>8am-5pm</td>
<td>INSP100B</td>
<td>$230/255</td>
<td>Conventional Onsite Wastewater System Inspection Field Training</td>
<td>6</td>
<td>SI</td>
<td>I-IV</td>
<td>N/A</td>
</tr>
<tr>
<td>17</td>
<td>8am-12:30pm</td>
<td>OWT135</td>
<td>$140/165</td>
<td>All about series: Septic Tanks (Danielson, CT)</td>
<td>4</td>
<td>SE-SI</td>
<td>I-IV</td>
<td>3</td>
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<tr>
<td>June</td>
<td>14</td>
<td>8am-5pm</td>
<td>OWT125</td>
<td>Bottomless Sand Filter (BSF) Design and Installation</td>
<td>8</td>
<td>SE-SI</td>
<td>I-IV</td>
<td>3</td>
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<tr>
<td>28</td>
<td>8am-5pm</td>
<td>OWT115</td>
<td>$200/225</td>
<td>Surveying Techniques for the Wastewater Professional</td>
<td>8</td>
<td>SE-SI</td>
<td>I-IV</td>
<td>6</td>
</tr>
<tr>
<td>Aug.</td>
<td>23</td>
<td>8am-5pm</td>
<td>OWT100</td>
<td>Conventional Onsite Wastewater Treatment Basics for Installers</td>
<td>N/A</td>
<td>N/A</td>
<td>I-IV</td>
<td>6</td>
</tr>
<tr>
<td>30</td>
<td>8am-5pm</td>
<td>OWT105</td>
<td>$200/225</td>
<td>Innovative &amp; Alternative (I&amp;A) Technologies</td>
<td>8</td>
<td>SE-SI</td>
<td>I-IV</td>
<td>6</td>
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<tr>
<td>Sept.</td>
<td>13</td>
<td>8am-5pm</td>
<td>INSP100A</td>
<td>Conventional Onsite Wastewater System Inspection</td>
<td>8</td>
<td>SI</td>
<td>I-IV</td>
<td>6</td>
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<tr>
<td>14</td>
<td>8am-5pm</td>
<td>INSP100B</td>
<td>$230/255</td>
<td>Conventional Onsite Wastewater System Inspection Field Training</td>
<td>6</td>
<td>SI</td>
<td>I-IV</td>
<td>N/A</td>
</tr>
<tr>
<td>20</td>
<td>8am-5pm</td>
<td>OWT125</td>
<td>$200/225</td>
<td>Bottomless Sand Filter (BSF) Design and Installation</td>
<td>8</td>
<td>SE-SI</td>
<td>I-IV</td>
<td>3</td>
</tr>
<tr>
<td>27</td>
<td>8am-5pm</td>
<td>FIELD DAY</td>
<td>$200/225</td>
<td>Technology Vendor Field Demo at Training Center</td>
<td>8</td>
<td>SE-SI</td>
<td>I-IV</td>
<td>3</td>
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<tr>
<td>Oct.</td>
<td>11</td>
<td>1pm-5:30pm</td>
<td>OWT170</td>
<td>Microbiology for Wastewater Professionals</td>
<td>4</td>
<td>SE-SI</td>
<td>I-IV</td>
<td>3</td>
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<tr>
<td>Nov.</td>
<td>1</td>
<td>8am-5pm</td>
<td>OWT120</td>
<td>RI Designer Examination Prep</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>29</td>
<td>8am-12:30pm</td>
<td>OWT160</td>
<td>$140/165</td>
<td>Nitrogen in the Environment and Onsite Wastewater Systems</td>
<td>4</td>
<td>SE-SI</td>
<td>I-IV</td>
<td>3</td>
</tr>
<tr>
<td>29</td>
<td>1pm-5:30pm</td>
<td>OWT150</td>
<td>$140/165</td>
<td>AutoCALCS – Automated BSF Sizing, Pump Calcs, &amp; Support Mat.</td>
<td>4</td>
<td>SE/SI</td>
<td>I-III</td>
<td>3</td>
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<tr>
<td>Dec.</td>
<td>13</td>
<td>8am-5pm</td>
<td>OWT185</td>
<td>Designing Nitrogen Removal Technologies</td>
<td>8</td>
<td>SE/SI</td>
<td>I-IV</td>
<td>6</td>
</tr>
</tbody>
</table>

Soil classes with Professor Mark Stolt (please email Prof. Stolt to register): mstolt@uri.edu

<table>
<thead>
<tr>
<th></th>
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<th>Call (401) 874-5950 if any questions</th>
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<tbody>
<tr>
<td>June</td>
<td>6</td>
<td>8:30am-4pm</td>
<td>Soils 101</td>
<td>$150 Introductory Soil Morphology and Evaluation for Siting Onsite Systems</td>
</tr>
<tr>
<td>June</td>
<td>13</td>
<td>8:30am-4pm</td>
<td>Soils 213</td>
<td>$175 Advanced Soil Morphology</td>
</tr>
<tr>
<td>June</td>
<td>20</td>
<td>8:30am-4pm</td>
<td>Soils 313</td>
<td>$175 Soil Evaluation and Morphology</td>
</tr>
</tbody>
</table>

See page 5
FIELD DAY - Technology Vendor Field Demo at Training Center
On this outdoor demo day we gather vendors that have displays at the NEOWT Center to present information about what their particular technology is approved to do, installation, operation and maintenance, and design requirements for their technologies. This class substitutes for required vendor training for installers and designers in RI. Instructors: NEOWTP staff.
Scheduled for Sept. 27 (8am-5pm) (Sept. 28 rain date)
Credits: 4 RI (I-IV) 8 MA (SE/SI) 3 NHDES
Registration fee - $200 (early)/$225 (regular)

OWT100 - Conventional Onsite Wastewater Treatment Basics for Installers
This class is preparation for the RIDEM Installer’s Examination, generally scheduled a week following the class. This is a fundamental course to help you understand onsite wastewater system regulations, definitions, and permit requirements. Learn about your responsibilities, RI state regulations, components of a conventional onsite wastewater system and their function, contaminants in septic tank effluent and their fates, soils and wastewater movement and treatment, basic wastewater design overview, installation and construction oversight, operation, maintenance and inspection issues, and general safety issues. Instructors: NEOWTP staff, RIDEM staff.
Scheduled for August 23 (8am-5pm)
Credits: 4 RI (I-IV) NO MA 6 NHDES
Registration fee - $200 (early)/$225 (regular)

OWT105 - Innovative and Alternative (I&A) Technologies
This class is required before you can take OWT125 (BSF Class). Learn about the regulatory status of I&A systems; selecting the proper system for your site; the treatment train process and standards; and wastewater distribution issues. We will also teach you about pump controls, alarms, and timers; the basic components common to most I&A technologies; media filters – sand, trickle, foam, peat, textile; fixed activated sludge systems; ATU’s; drainfield options; and operation and maintenance requirements. Instructors: NEOWTP staff.
Scheduled for Jan. 18, Mar. 1 and Aug. 30 (8am-5pm)
Credits: 4 RI (I-IV) 8 MA (SE/SI) 6 NHDES
Registration fee - $200 (early)/$225 (regular)

OWT115 - Surveying Techniques for the Wastewater Professional
This course is for wastewater professionals who want to become familiar with all aspects of surveying, location of physical features, plan drawing and elevation surveys. Outdoors and hands-on practice with equipment will be provided. Instructor: Steven Pinch (Steven Pinch Land Surveying).
Scheduled for June 28 (8am-5pm)
Credits: 4 RI (I-IV) 8 MA (SE/SI) 6 NHDES
Registration fee - $200 (early)/$225 (regular)

OWT120 - RI Designer Examination Prep
This class will prepare you for the RIDEM Class I, II, or III Designer’s Examination. Learn about the types of information and questions that you will need to know to be successful. Taught in conjunction with RIDEM and NEOWTP staff.
Scheduled for November 1 (8am-5pm)
No Credits
Registration fee - $200(early)/$225 (regular)

OWT125 - Bottomless Sand Filter (BSF) Design and Installation
You must take OWT105 - "Innovative & Alternative Technologies" before this class. OWT 125 is required by RIDEM and MADEP before you can design or install a BSF. Please include the date you took OWT 105 when completing registration form. Learn about bottomless sand filter (BSF) designs and where and when to use them. We will teach you all the essentials about design, site preparation and installation sequence. Later in the day we’ll view a demonstration BSF at the NEOWT Center. Instructors: NEOWTP staff.
Class size limited to 25 participants
Scheduled for April 26, June 14, Sep. 20 (8am-5pm)
Credits: 4 RI (I-IV) 8 MA (SE/SI) 3 NHDES
Registration fee - $200 (early)/$225 (regular)

OWT135 - All About Series: Septic Tanks
We will visit a regional septic tank manufacturing facility in Danielson, CT and learn about new concrete mixes, quality control, general tank construction, tank manholes, cast-in-place riser adapters and boots, riser installations, mid-seam wrapping, and vacuum testing techniques. We’ll also cover specifications for ordering custom tanks. Instructors: Dennis Jolley (Jolley Precast), NEOWTP staff.
Class size limited to 25 participants
Scheduled for May 17 (8am-12:30pm)
Location: Danielson, CT
Credits: 2 RI (I-IV) 4 MA (SE/SI) 3 NHDES
Registration fee - $140 (early)/$165 (regular)
OWT140 - All About Series: Sand Media
This class visits a regional specialty sand and gravel processing facility in Slatersville (Northern Rhode Island), where you’ll learn about blind sieve analysis of sand samples, how to conduct a quick field test to determine quality of sand product, and the importance of effective size and uniformity coefficient. We’ll tour the facility and observe the raw product before processing, the water particle separation process and the kiln dry and bag house.
Instructors: Carmine Iacuone (Holliston Sand Co.), NEOWTP staff.
Class size limited to 25 participants
Scheduled for May 3 (8am-12:30pm)
Location: Slatersville, RI
Credits: 2 RI (I-IV)  4 MA (SE/SI)  3 NHDES
Registration fee - $140 (early)/$165 (regular)

OWT145 - Pumps and Control Panels
Hear from national experts about the differences between the types of onsite wastewater system pumps; an introduction to pump curves, sizing, and head loss; basic pump installation; and how to trouble shoot common problems. You’ll also learn about the different types of control panels, float controls, alarms, and basic timed-dosed system calculations.
Instructors: Carl Rosen (the “pump” guy), NEOWTP staff.
Scheduled for February 15 (8am-5pm)
Credits: 4 RI (I-III)  8 MA (SE/SI)  6 NHDES
Registration fee - $200 (early)/$225

OWT150 - AutoCALCS - Automated Support Materials for Pump Timers, Tanks, Chambers, BSF Sizing, & Buoyancy Calculations
This class is focused on BSF design and provides you with a CD with several spreadsheet programs for your office computer. We’ll demonstrate how to use the spreadsheet programs to run calculations that determine system design requirements. The programs will help you to size a BSF with proper orifice and lateral spacing, and will determine the elevations for all floats and screen vaults, and the required timer run times. Other spreadsheets help you with tank and pump chamber buoyancy calculations and textile filter design.
Instructors: NEOWTP staff.
Scheduled for Feb. 8 (8am-12:30pm) & Nov. 29 (1pm-5:30pm)
Credits: 2 RI (I-III)  4 MA (SE/SI)  3 NHDES
Registration fee - $140 (early)/$165 (regular)

OWT160 - Nitrogen in the Environment and Onsite Wastewater Systems
Let us teach you about nitrogen transformations in conventional and innovative and alternative wastewater treatment systems. Learn what types of state-approved transformations can be used to reduce harmful forms of nitrogen, state and local regulatory requirements concerning nitrogen limitations, and recent research about treatment performance in these systems.
Instructors: Lorraine Joubert (URI NEMO Program) and NEOWTP staff.
Scheduled for November 29 (8am-12:30pm)
Credits: 2 RI (I-IV)  4 MA (SE/SI)  3 NHDES
Registration fee - $140 (early)/$165 (regular)

OWT170 - Microbiology for Onsite Wastewater Professionals
Microorganisms play a critical role in the transformation, processing, and treatment of wastewater. In addition, numerous types of disease-causing bacteria, viruses, protozoa, and worms may be present in wastewater. Our department expert will instruct you about the microorganisms that are present in wastewater and the dynamic and interactive relationships that occur in onsite wastewater systems and in the soil environment.
Instructor: José Amador (URI-NRS Microbial Ecologist).
Scheduled for October 11 (1pm-5:30pm)
Credits: 2 RI (I-IV)  4 MA (SE/SI)  3 NHDES
Registration fee - $140 (early)/$165 (regular)

OWT175 - Identifying and Managing High Strength Wastewater
Are systems for restaurants, supermarkets, and convenience stores giving you trouble? This course describes the parameters that should be used for troubleshooting and designing high strength wastewater (HSW) systems. This class is based on knowledge from the nation’s leading authority on HSW and his over 50 years of experience.
Instructors: NEOWTP staff.
Scheduled for January 25 (8am-5pm)
Credits: 4 RI (I-IV)  8 MA (SE/SI)  6 NHDES
Registration fee - $200 (early)/$225 (regular)

OWT180 - Design of Conventional Onsite Wastewater Treatment Systems
This class focuses on a complete design, from raw data being placed on paper to a design of a pipe on stone (trenches), flow diffuser and a non-pressurized pump design (pump to d-box) systems. Final grades and fill perimeters and compliance with the WTS rules will be discussed. The format is informal, with class participants drawing and working on the design as the instructor drafts from an overhead projector.
Instructors: NEOWTP staff.
Scheduled for February 1 (8am-5pm)
Credits: 4 RI (I-IV)  8 MA (SE/SI)  6 NHDES
Registration fee - $200 (early)/$225 (regular)

OWT185 - Designing Nitrogen Removal Technologies
Design of commonly-used nitrogen reducing technologies will be addressed as well as a bottomless sand filter and a shallow narrow drainfield. All support materials will be discussed and finalized including a pressurized pump design.
Instructors: NEOWTP staff.
Scheduled for December 13 (8am-5pm)
Credits: 4 RI (I-IV)  8 MA (SE/SI)  6 NHDES
Registration fee - $200 (early)/$225 (regular)
Onsite Wastewater System Inspection and Operation & Maintenance Classes:

URI’s system inspector registration is required if seeking to work in many Rhode Island towns.

INSP100A - Conventional Onsite Wastewater System Inspection

You will be in the classroom learning about onsite wastewater system inspection techniques, general safety issues, how to use tools and gadgets of the inspection trade and how to recognize typical substandard systems, collecting baseline data, determining solids levels in tanks, and pump out and inspection frequencies. Instructors: Darlene Gardner (Superior Septic Service) and NEOWTP staff.

Scheduled for May 10 and September 13 (8am-5pm)
Credits: 4 RI (I-IV) 8 MA (SI) 6 NHDES
Registration fee - $230 (early)/$255 (regular)

INSP100B - Conventional Onsite Wastewater System Inspection Field Training

Note: You must attend both INSP100A and INSP100B to be eligible for the examination. There will be no make-up examinations. Preference to attend INSP100B will be given to those already registered to take INSP100A. Examination is not required to earn CEU and TCH credits.

The day will begin with a hands-on inspection overview at our NEOWT Center at URI Peckham Farm. Then we head into the field to conduct 2 actual, blind inspections at existing homes using the standardized RI state inspection procedure. At the end of the day, you may take written and field practical examinations. Participants who pass the examinations will be listed in the URI conventional onsite wastewater system inspectors’ registration and posted to the RIDEM website. Instructors: Darlene Gardner (Superior Septic Service) and NEOWTP staff.

Class limited to 25 participants
Scheduled for May 11 and September 14 (8am-3:00pm; with exam to 5pm)
Credits: 4 RI (I-IV) 6 MA (SI) NO NHDES
Registration fee - $230 (early)/$255 (regular)

Soils Courses with Dr. Mark Stolt

PLEASE DO NOT USE THE NEOWTP REGISTRATION FORM TO REGISTER FOR OR INFORMATION ON SOIL COURSES. Please email Dr. Stolt directly at: mstolt@uri.edu

Soils 101: Introductory Soil Morphology and Evaluation for Siting Onsite Systems
June 6 (1-day course) (8am-5pm)
4 RI CEU (I-IV) 8 MA TCH (SE)

Soils 213: Advanced Soil Morphology
June 13 (1-day course) (8am-5pm)
4 RI CEU (I-IV) 8 MA TCH (SE)

Soils 313: Soil Evaluation and Morphology
June 20 (1-day course) (8am-5pm)
4 RI CEU (I-IV) 8 MA TCH (SE)

Descriptions of the soil courses are on our website (http://web.uri.edu/owt/neowt-course-schedule/)

NEOWTP POLICIES:
(please read, as they may have changed):

Online registration is no longer available.

Mail-in Registrations
To send a registration by mail, you must download a registration form: (web.uri.edu/owt/files/2010REGISTRATIONFORM.pdf) or request one by calling (401) 874-5950 or emailing Lisa Hollister (NEOWTP@uri.edu).

Early Registration Policy
An early registration fee will be awarded for all registrations received or recorded at the NEOWTC at least 14 calendar days before a scheduled class. The regular fee will apply for those registrations received less than 14 days before a class.

Late Registrations/Walk-ins
An additional fee of $25.00 over the regular registration fee will be assessed for walk-ins and any registrations received less than three days before the class. Some courses may not allow for late registrations or walk-ins when the participant limit is reached, please call or email us in advance. Walk-ins are assisted on a first come first served basis.

Arriving Late or Partial Credit for Partial Attendance
The NEOWTP @ URI has binding agreements with the regulatory agencies through which course credits have been awarded. NO PARTIAL CREDITS can be given for partial attendance at any course. There is a sign-in before the scheduled start of class and “head counts” done during class.

If you arrive late, you may sit in the class for information acquisition, but no course credits can be awarded.
Cancellations, Transfers and Other Policies
Should you wish to cancel your registration: we will refund your fee (minus a $25 processing fee) if we receive written notice at least seven (7) days prior to the scheduled class date (written notice is preferred via email: NEOWTP@uri.edu). With the written request, a copy of the URI W-9 form is required (we will email or mail you a copy). Refunds may take 6-8 weeks to complete. In lieu of refunds, a credit to your account for future courses is possible.

NO SHOWS on a class scheduled date will forfeit their registration fee.

TO TRANSFER to another course, you need to cancel the registration to the previous course (in writing) and register for the new course (cancellation policies apply).

Many classes have a minimum and maximum number of registrants. Should the minimum number not be reached, we reserve the right to cancel the class and return your full fees (or give you credit for future courses), or try to reschedule the class at a later date.

RETURNED CHECKS: There will be a $50 fee assessed for these.

ATTENDANCE RECORDS: There will be a $30 fee for researching attendance records and re-issuing certificates of attendance for each class already taken. The request and fees must be received by mail.

Notes:
This course schedule and policies are subject to change; please check our website for the most current course and policy information.

A REGISTRATION CONFIRMATION will be sent to the email provided on the registration form after the registration and fee has been processed.

A PARKING PASS, map(s) and class information will be sent to you in a separate email (when applicable) approximately one week before class. Please call to receive parking passes by mail.

DIRECTIONS: Directions to Weaver Auditorium and Peckham Farm can be found here: web.uri.edu/owl/directions-and-maps/

We are unable to reserve seats by phone or emails. Class enrollment in some classes is limited (see course descriptions), so please register early to avoid disappointment.

Call Lisa Hollister, Training Coordinator, at 401-874-5950 if you have questions.

Inclement Weather
In the event of imminent inclement weather, and we have not cancelled the course, please call (401) 874-7669 (URISNOW) to check if classes are open. If classes are not open we will try to reschedule. If there is inclement weather where you live, use your own judgment when travelling (cancellation fees do not apply).

Disability Information Statement
Any NEOWTP class attendee with a documented disability is welcome and encouraged to contact our office at 401-874-5950 as early as possible prior to the class so that we may arrange reasonable accommodations to the extent practicable.