



University of Rhode Island
College of Environment and Life Sciences
Natural Resources Science Department
URI Cooperative Extension



New England Onsite Wastewater Training Program @ URI

Please visit our website at: www.uri.edu/ce/wq

2009 Training Workshop Schedule

Classes start in January! Register soon! ++New Classes++



ONLINE REGISTRATION COMING SOON!



Please check our website for availability

Sponsored by:

University of Rhode Island College of Environment and Life Sciences
CSREES New England Regional Water Quality Program
Rhode Island Department of Environmental Management
Rhode Island Coastal Resource Management Council
Rhode Island Independent Contractors and Associates
Consortium of Institutes for Decentralized Wastewater Treatment
US Environmental Protection Agency Region 1

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

New England Onsite Wastewater Training Program @ URI

2009 Training Workshop Schedule

2009 Wastewater Training Workshop Schedule

DATES	TIME	CODE	Registration (early/regular)	CLASS	RIDEM	
					CEUs ¹	Design Class
January 22	8am-12:30pm	OWT165	\$90/115	Media Filters	2	I – III
29	8am-5pm	OWT105	\$140/165	Innovative & Alternative Technology Overview	4	I – IV
Feb. 5	8am-12:30pm	OWT160	\$90/115	Nitrogen in the Environment and Onsite Wastewater Systems	2	I – IV
26	8am-5pm	OWT145	\$175/200	Pumps and Control Panels	4	I – III
April 16	8am-5pm	OWT180	\$165/190	New Class → Design of Conventional Onsite Wastewater Treatment Systems	4	I – III
23	8am-5pm	OWT125(*)	\$165/190	Bottomless Sand Filter (BSF) Design and Installation	4	I – IV
May 5-6	8am-5pm	INSP100	\$385/435	Conventional Onsite Wastewater System Inspection	8	I – III
14	8am-5pm	OWT105	\$140/165	Innovative & Alternative Technology Overview	4	I – IV
28	8am-12:30pm	I&A FIELD	\$90/115	Innovative & Alternative Technology Field Overview @ NEOWTC	2	I – IV
June 2-3	8am-5pm	INSP200(*)	\$415/465	National Operation and Maintenance Service Provider Program	8	I – III
11	2pm-5pm	INSP200	N/A	INSP200 Examination	N/A	N/A
25	8am-5pm	OWT125(*)	\$165/190	Bottomless Sand Filter (BSF) Design and Installation	4	I – IV
July 15	8am-5pm	OWT115	\$165/190	Surveying Techniques for the Wastewater Professional	4	I – III
16	1pm-5:30pm	OWT170	\$90/115	Microbiology for Wastewater Professionals	2	I – IV
August 6	3pm-7:30pm	OWT110	\$105/130	Surveying Basics for the Onsite Wastewater Contractor	2	I – III
Sept. 3	8am-5pm	OWT100	\$140/165	Conventional Onsite Wastewater Treatment Basics for Installers	4	I – IV
17	8am-5pm	OWT105	\$140/165	Innovative & Alternative Technology Overview	4	I – IV
22-23	8am-5pm	INSP100	\$385/435	Conventional Onsite Wastewater System Inspection	8	I – III
Oct. 1	1pm-5:30pm	I&A FIELD	\$90/115	Innovative & Alternative Technology Field Overview @ NEOWTC	2	I – IV
8	8am-5pm	OWT125(*)	\$165/190	Bottomless Sand Filter (BSF) Design and Installation	4	I – IV
15	8am-5pm	INSP 150	\$165/190	New Class → Functional Inspections	4	I – IV
Nov. 5	8am-5pm	OWT120	\$140/165	RI Designer Examination Prep	N/A	I – III
19	8am-12:30pm	OWT150(*)	\$105/130	AutoCALCS – Automated BSF Sizing, Pump Calcs, & Support Materials	2	I – III
Dec. 3	8am-5pm	OWT155	\$140/165	Regulatory Setbacks and Buffers	4	I – IV
10	8am-12:30pm	OWT160	\$90/115	Nitrogen in the Environment and Onsite Wastewater Systems	2	I – IV
15	8am-5pm	OWT185(*)	\$165/190	New Class → Designing Nitrogen Removal Technologies	4	I – III

↓ **SOILS CLASSES: (please call Mark Stolt at 874-2915 or email him at mstolt@uri.edu for SOILS registration information)** ↓

DO NOT USE THE REGISTRATION PAGE HEREWITH FOR SOIL CLASSES

June 25	8am-5pm	Soils 101	\$150	Soil Basics for the Onsite Wastewater Contractor – call Mark Stolt at 874-2915	4	I – IV
July 29-30	8am-5pm	Soils 209	\$350	Advanced Soil Morphology Two Day Course – call Mark Stolt at 874-2915	8	I – IV

¹ A total of four (4) RIDEM CEUs are required for each year in a three (3) year RIDEM designer license renewal period (for a total of 12 CEU's). Please contact Deb Knauss at RIDEM ISDS:

Tel. 401.222.4700 ext.7612 or Email: deb.knauss@RIDEM.ri.gov if you have any questions concerning RIDEM re-licensing requirements.

(*) OWT105 is required before you can take either OWT125 (BSF class) or, OWT150 (AutoCALCS). INSP100 and OWT105 are required if you plan to take the INSP 200 exam. OWT160 is required before taking OWT185. N/A: Non applicable

Early-bird registration ends 14 calendar days before the class scheduled date.

OWT100 - Conventional Onsite Wastewater Treatment Basics for Installers

This class is excellent preparation for the RIDEM Installer's Examination, generally scheduled a week following the class. This is a fundamental course to understand onsite wastewater system regulations, definitions, and application 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 mathematics, design overview, installation and inspection overview, operation, maintenance, and inspection issues, and general safety issues. Instructors: Brian Moore (RIDEM), NEOWTP Staff.

Scheduled for September 3
1 day course (8AM-5PM) 4 RIDEM CEUs
Registration fee - \$140(early-bird)/\$165

OWT105 - Innovative and Alternative (I&A) Technology Overview

Note: This is a required class before you can take OWT 125 (BSF) and OWT185 (Nitrogen Design).

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 and bio-filters (foam, peat, textile); fixed activated sludge systems; drainfield options; and operation and maintenance requirements. Instructors: Brian Moore (RIDEM), NEOWTP Staff.

Scheduled for January 29, May 14 and September 17
1 day course (8AM-5PM) 4 RIDEM CEUs
Registration fee - \$140(early-bird)/\$165

OWT110 – Surveying Basics for the Onsite Wastewater Contractor

This course is geared for the Installer who wants to familiarize him/herself with benchmark/elevation transfers, plan interpretation and transferring the plan information to the ground surface. Hands-on practice with equipment will be provided. Instructor: Steven Pinch (Steven Pinch Land Surveying, Wakefield, RI).

Scheduled for August 6
1/2 day course (3PM-7:30PM) 2 RIDEM CEUs
Registration fee - \$105(early-bird)/\$130

OWT115 – Surveying Techniques for the Wastewater Professional

This course is geared for the wastewater professional who wants to familiarize him/herself with all aspects of surveying, location of physical features and elevation surveys. Outdoors and hands-on practice with equipment will be provided. Instructors: Steven Pinch (Steven Pinch Land Surveying, Wakefield, RI) and NEOWTP staff.

Scheduled for July 15

1 day course (8AM-5PM) 4 RIDEM CEUs
Registration fee - \$165(early-bird)/\$190

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 OWTS staff.

Scheduled for November 5
1 day course (8AM-5PM) No RIDEM CEUs
Registration fee - \$140(early-bird)/\$165

OWT125 - Bottomless Sand Filter (BSF) Design and Installation

Note: This class is required by RIDEM before you can design or install a BSF in Rhode Island. You must take OWT 105 - Innovative & Alternative Technology Overview before taking this BSF class.

Learn about basic bottomless sand filter (BSF) designs and where and when to use them. We will teach you all the essentials about designs, site preparation, locating components in the treatment train, constructing a filter enclosure, and packing the filter with media. Later in the day we'll view a demonstration BSF at the Training Center located at URI's Peckham Farm. Instructors: Tim Stasiunas, Brian Moore (RIDEM), Dave Burnham, NEOWTP Staff.

Scheduled for April 23, June 25, and October 8
1 day course (8AM-5PM) 4 RIDEM CEUs
Class size limited to 25 participants
Registration fee - \$165(early-bird)/\$190

OWT145 - Pumps and Control Panels

Hear from national experts on 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, basic time dosed system calculations; and how to resolve common control panel problems. This course is offered every other year. Instructors: Carl Rosen (Yrell, Inc.), NEOWTC Staff.

Scheduled for February 26
1 day course (8AM-5PM) 4 RIDEM CEUs
Registration Fee - \$175(early)/\$200

OWT150 - AutoCALCS - Automated Support Materials for Pump Timers, Tanks, Chambers, BSF Sizing, & Buoyancy Calculations

This class is especially focused on BSF designs for Category 1 and 2 systems. We'll demonstrate how to operate new spreadsheet programs to automatically 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. Another spreadsheet helps you with tank and pump chamber buoyancy calculations. Instructor: David Kalen (NEOWTP).

Scheduled for November 19
1/2 day course (8AM-12:30PM) 2 RIDEM CEUs
Registration fee - \$105(early-bird)/\$130

OWT155 - Regulatory Setbacks and Buffers

New regulations revisions have changed the buffer and setback requirements for onsite wastewater systems. Let our team of partners provide you with the knowledge to design and site an onsite wastewater system when it is within RIDEM or CRMC jurisdiction. Learn about applicable RIDEM ISDS rules and RIDEM freshwater wetland setback requirements. You will learn about CRMC coastal features and associated setback and buffer requirements, and participate in a roundtable discussion with RIDEM and CRMC state regulatory staff to answer your design and siting questions. Instructors: Jim Boyd, Caitlin Chafee, Peter Paton, Mark Stolt, Chuck Horbert, Brian Moore.

Scheduled for December 3
1 day course (8AM-5PM) 4 RIDEM CEUs
Registration fee - \$140(early-bird)/\$165

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 systems can be used to reduce harmful forms of nitrogen, and RI state and local regulatory requirements you should be aware of concerning nitrogen limitations. We will instruct you how to maximize nitrogen removal when monitoring system performance. Instructors: Lorraine Joubert (URI NEMO Program) and NEOWTP Staff.

Scheduled for February 5 (8AM-12:30PM) and December 10 (8:00am-12:30PM)
1/2 day course 2 RIDEM CEUs
Registration fee - \$90(early-bird)/\$115

OWT165 - Media Filters

This class focuses on media filters, their design, and application for improving the quality of wastewater. Learn about media filter types, how they differ, common similarities, how they function, and how to incorporate these filters into your onsite wastewater system designs for maximum efficiency. Instructors: NEOWTP Staff.

Scheduled for January 22
1/2 day course (8AM-12:30PM) 2 RIDEM CEUs
Registration fee - \$90(early-bird)/\$115

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 effluent. Our department expert will instruct you about the variety of 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 Microbial ecologist).

Scheduled for July 16
1/2 day course (1PM-5:30PM) 2 RIDEM CEUs
Registration fee - \$90(early-bird)/\$115

NEW OWT180 – Designing of Conventional Onsite Wastewater Treatment System

This class will focus on a complete design, from raw data being placed on paper to a design of a pipe on stone (trenches), flow diffuser and, if time permits, in-drains or a non-pressurized pump design (pump to d-box). Final grades and fill perimeters and compliance with the OWTS rules will be discussed. The format is informal, with participants drawing and working on the design as the instructor drafts from an overhead projector.

Scheduled for April 16
1 day course (8am-5pm)
Registration fee - \$165(early-bird)/\$190

NEW OWT185 – Designing Nitrogen Removal Technologies

Notes: OWT 160 Nitrogen in the Environment and Onsite Wastewater Systems, and OWT 105 are required to be eligible to take the OWT185 course.

A complete design of commonly used Rhode Island nitrogen reducing technologies will be addressed for a base plan containing existing natural and man made physical features and contour lines. A textile filter, a fixed activated sludge and an upflow nitrogen reducing filter will be designed 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. Adherence to the OWTS rules will be discussed.

Scheduled for December 15
1 day course (8:00AM-5:00PM)
Registration fee- \$165(early-bird)/\$190.00

I&A FIELD - I&A Field Technology Overview @ NEOWTC

This new class is held at the NEOWT Center located at URI Peckham Farm. Come to this hands-on class and “kick the wastewater treatment system tires”. You’ll learn about proper treatment trains (and treatment abilities) of all the advanced treatment technologies approved in Southern New England. We’ll discuss sand textile and peat filters, fixed activated sludge treatment units, aerobic treatment units, trickling filters for residential or commercial applications and newly approved “leachfield renovation” technology. Instructors: Brian Moore (RIDEM), NEOWTP Staff.

Scheduled for May 28 (8AM-12:30PM) and Oct 15 (1pm-5:30pm)
1/2 day course (see above) 2 RIDEM CEUs
Registration fee - \$90(early-bird)/\$115

Onsite Wastewater System Inspection and Operation & Maintenance Classes

INSP100 is required of inspectors seeking to work in numerous Rhode Island towns. INSP200 will soon be required of inspectors seeking to maintain I&A systems

INSP100 - Conventional Onsite Wastewater System Inspection

Note: You must be present for the full two days to be eligible for the INSP100 examination. There will be no make-up examinations – if you do not pass the exam, you must take the class again. Examination is not required for CEU credits.

This is a 2-day course with an examination. Day 1 you will be in the classroom learning about onsite wastewater system inspection techniques, and general safety issues and precautions. We will teach you how to use tools and gadgets of the inspection trade and how to recognize typical substandard systems. Day 2 will begin with a hands-on review at our Training Center. Then we head into the field to conduct 2 actual, blind inspections at existing homes using the standardized RI state inspection procedure and inspection reports. At the end of the day, you will 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, Dave Burnham, Brian Moore (RIDEM) and NEOWTP Staff.

**Scheduled for May 5–6 and September 22-23
2 day course (8AM-5PM) 8 RIDEM CEUs
Class limited to 25 participants
Registration fee - \$385(early-bird)/\$435**

INSP150 - Functional Inspections

This one-day class focuses on how to perform a functional inspection of a conventional wastewater treatment system which is typically done prior to home sales. Topics to cover include a brief inspection refresher, elements of a functional inspection, newer tools and techniques, updates on cesspool phase-outs, wastewater management, and RIWIS. We'll also have a brief forum for inspectors and wastewater management specialist. We'll go in the field later in the day to perform an actual functional inspection and flow trial test.

**Scheduled for October 15
1 day course (8AM – 5PM) 4 RIDEM CEUs
Registration fee - \$ 165 (early-bird)/ \$ 190**

INSP200 – National Operation and Maintenance Service Provider Program

Notes: It is strongly recommended that you attend OWT 105 and INSP100 (or have similar professional experience) before taking the INSP200 course exam. Additionally, you must be present for the full two days to be eligible for the INSP200 examination. There will be no make-up examinations – if you do not pass the exam, you must take the class again. Examination is not required for CEU credits.

This is an intensive course involving two full days of class work, followed by a separately scheduled examination as part of a **NATIONALLY SANCTIONED** operation and maintenance service provider program developed by the Consortium of Institutes for Decentralized Wastewater Treatment (CIDWT). Topics include: inspecting and maintaining primary treatment and recirculating tanks; all approved advanced treatment systems; timers, controls, event counters and meters; pumps and discharge assemblies; dosing intervals; and safety issues. A written examination will be given on a separate date. Participants who successfully pass the examination will be listed in the URI Operation & Maintenance Service Providers for Innovative and Alternative Onsite Wastewater System Technologies registration and posted to the RIDEM website. Instructors: Bruce Lesikar (Texas), Nancy Deal (North Carolina), NEOWTP Staff.

**Scheduled for June 2-3; 2 day course (8AM-5PM)
Examination date: June 11(2:00 PM-5:00 PM)
8 RIDEM CEUs
Registration fee - \$415(early-bird)/\$465**

NEOWTP POLICIES:

Early-bird Registration Policy

An early-bird registration fee will be awarded for all registrations received at the OWTC more than 14 calendar days before a scheduled class. We must receive your registration at least 2 weeks before the scheduled class so that we can email or mail your parking pass, and other materials to you in a timely manner. Those registrations received less than 14 days before a class will be charged the regular registration fee.

Cancellation/transfer 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 seven (7) days prior to the scheduled class date. Should you wish to transfer your registration a \$25 processing fee will be assessed if we receive written notice seven (7) days prior to the scheduled class date. You may not cancel or transfer your registration to another class within seven days of the scheduled class. 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 fees, or try to reschedule the class at a later date.

There will be a \$50 fee for all returned checks.

There will be a \$30 fee for researching attendance records. The request and fee for this research must be received by mail.

Notes:

This course schedule and the listed instructors are subject to change; please check our website for the most current course information.

A few days before the class starts we will email you a campus parking pass, a map designating the parking area and class location.

We are unable to reserve seats by phone, fax or emails. If a class fills before your registration form and check reaches us, we will notify you for alternative options. Class enrollment in some classes is limited (see course descriptions), so please register early to avoid disappointment.

You can download additional registration forms from our web page: <http://www.uri.edu/ce/wq>. Call 401-874-5950 if you have questions.

Disability Information Statement

Any NE OWTC class attendee with a documented disability is welcome and encouraged to contact the Onsite Wastewater Training Program office at 401-874-5950 as early as possible prior to the class so that we may arrange reasonable accommodations to the extent practicable.



REGISTRATION FORM

ONLINE REGISTRATION COMING SOON! Please check our website for availability

2009 Training Workshop Classes

(Please use one form per person)

Name: _____ Company/Agency: _____

Telephone: _____ Fax: _____

Mailing Address: _____

Town/City: _____ State: _____ Zip Code: _____

Email (for parking passes, confirmations, etc.): _____

Class Code (do not use this form for SOILS classes)	Date	Fee
_____	_____	_____
_____	_____	_____
_____	_____	_____
TOTAL: \$		_____

SOILS classes need to be registered with Mark Stolt (401-874-2915).

PLEASE MAKE CHECK PAYABLE TO: URI Cooperative Extension

Mail to: University of Rhode Island
NRS Department - NEOWT Program
URI Coastal Institute Bldg.
1 Greenhouse Road
Kingston, RI 02881

Please read our early-bird registration and cancellation/transfer policies.

Profession: Designer license #: _____ Soil Evaluator License #: _____
Installer license #: _____ Other (please specify): _____
Licensing State: _____