JOINT ENVIRONMENTAL TRAINING COORDINATING COMMITTEE (J.E.T.C.C.) PO Box 487, Scarborough, Maine 04070-0487

PO Box 487, Scarborough, Maine 04070-0487 (207) 253-8020 info@neiwpcc-jetcc.org

2015 Fall Training Schedule

Click on COURSE TITLE for course description and registration form.

DATE	COURSE TITLE	LOCATION	<u>HOURS</u>
October 6 & 7 FULL	Advanced Wastewater Treatment	Yarmouth	12
October 7	Facility Operations in Cold Climates	Orono	*6
October 14 & 15	Wastewater 101	Portland	12
October 20 & 21	Laboratory Certification (with Optional NEWEA Exam) In partnership with NEIWPCC	Brunswick	9
November 4 (a.m.) November 4 (p.m.)	Drinking Water Microbiology & Bacteria Tests Wastewater Microbiology & Bacteria Tests Featuring Gil Dichter of IDEXX	Presque Isle Presque Isle	*3 3
November 6	Evaluating Clarifier Performance with John Esler	Augusta	6
November 10	Process Control for Activated Sludge	Bangor	6
November 17	Caring for your Lab Instruments, QA/QC, and Control Charting	Northeast Harbor	*6
November 18	Pump System Optimization for WW & DW Facilities	Portland	*6
November 18	Management Candidate School	Augusta	*70
November 19 FULL	Pump System Optimization for WW & DW Facilities	Bangor	*6
December 1	Creating O & M Manuals and SOPs	Waterville	*6
December 3	Mechanical Power Transmission Basics Sponsored by Motion Industries	Augusta	*6
December 8	Managing Fats, Oils, and Grease in the WWCS	Scarborough	6
December 17	Blueprint Reading	Kennebunkport	*6

^{*}Programs are also approved by Maine Board of Licensure of Water System Operators.

Advanced Wastewater Treatment FULL

Tuesday, October 6 and Wednesday, October 7, 2015 American Legion Log Cabin, Yarmouth, ME 8:30 a.m. - 3:30 p.m. Sign-in begins at 8:00 a.m.

This class covers advanced topics including industrial pretreatment, wastewater chemistry, applied math, process control decisions, advanced microscopic analysis, nitrification/denitrification, and phosphorus removal. It is geared for Grade 3, 4 and 5 operators who are looking to advance their skill set and challenge themselves.

Led by experts from Maine's Water Pollution Control community, this two, six (6) hour consecutive class will consist of lectures, treatment plant tour, practice questions, and discussions.

Students must bring a basic calculator to each class.



Instructors:

Judy Bruenjes, Maine DEP Scott Firmin, Portland Water District Susan Jasper, Portland Water District David Hughes, Scarborough Sanitary District

Cost: \$205

Credits: 12 Training Contact Hours

Approved for

Wastewater Operators

Course #: J1602

Registration Deadline

9/29/15

To register online with a credit card, go to www.jetcc.org/schedule.php

Registration	Form		
Course Title		Course #	
Your Name			
		State Zip	
Telephone		Fax	
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Mail Form and Payme	ent to:		

Or fax with a purchase order to: (207) 771-9028 or call (207) 253-8020

JETCC, PO Box 487, Scarborough, ME 04070-0487

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- Cancellations/No Shows: Seven days notice is required IN WRITING (mailed or faxed) for you to cancel at no cost. Cancellations received after this time will be charged \$25 for programs under \$100 and \$50 for programs over \$100. Registrants who do not cancel or who fail to show are responsible for full payment.
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- **Use one form per course.** Photocopy this page to apply for multiple courses.

Facility Operations in Cold Climates

Wednesday, October 7, 2015 Orono Town Office Council Chambers, Orono, ME 8:30 a.m. - 3:30 p.m. Sign-in begins at 8:00 a.m.

There are many challenges to consider when operating a water or wastewater facility in a climate where ice, cold, and extreme winter weather come with the territory. The key is to be ready ahead of time, and not wait until disaster strikes. By taking the proper steps, you will never have to say "If only I knew then what I know now..."

This interactive session will broaden your awareness of preparedness and preventive maintenance measures that can be taken to ensure effective management of an operation during a "big chill." Experts in the field will explain what they've learned from mishaps experienced or averted. We will discuss operational issues including the biological effects that happen in winter and snowmaking as a method of effluent disposal. The presenters will also examine less well-known safety issues that should be considered when running a water or wastewater plant in Maine's winter. Learn how to protect your facility, your infrastructure, and yourself through foresight, common sense, and creative thinking.



Funding provided in part by the Maine Drinking Water Program



Instructors: Richard Darling, P.E.

Bill Sheehan, Maine DEP David Keith, Carrabasset Valley

Sanitary District

Cost: \$120

Credits: 6 Training Contact Hours

Approved for Water and Wastewater Operators

Course #: J1603

Registration Deadline

9/30/15

To register online with a credit card, go to www.jetcc.org/schedule.php

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Course Title		Course #	
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Or fax with a purchase order to: (207) 771-9028 or call (207) 253-8020

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Wastewater 101

Wednesday, October 14 and Thursday, October 15, 2015 Portland Water District, East End Treatment Plant, Portland, ME 8:30 a.m. - 3:30 p.m. Sign-in begins at 8:00 a.m.

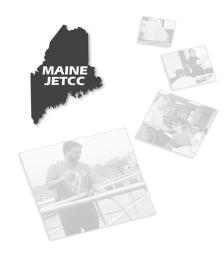
This course is designed as a basic introduction for operators who are new to the wastewater field. It will introduce definitions, terminology, and concepts of biological wastewater treatment as well as common abbreviations. Wastewater math will **not** be part of the curriculum for this course. Operators who intend to sit for the Grade 1 or Grade 2 exam should

Topics include:

- · Operator responsibilities
- Overview of conventional activated sludge (CAS) treatment
- Wastewater characteristics including DO, BOD, TSS, TRC, and E. Coli
- Intro to Microbiology
- Overview of the Clean Water Act, MEPDES permits, and DMR reporting
- Sampling considerations: preservation, holding times, chain of custody
- Flow monitoring basics
- Intro to process control terminology

JETCC, PO Box 487, Scarborough, ME 04070-0487

plan to take a separate Wastewater Math course.



Instructor: Judy Bruenjes, Maine DEP

Cost: \$205

Credits: 12 Training Contact Hours

Approved for

Wastewater Operators

Course #: J1604

Registration Deadline

10/7/15

To register online with a credit card, go to www.jetcc.org/schedule.php

Registration	Form	
Course Title		Course #
Your Name		
Street		
		State Zip
Telephone		Fax
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Laboratory Procedures

(followed by optional NEWEA Exam)

Tuesday-Wednesday, October 20-21, 2015 Brunswick Sewer District, Brunswick, ME

8:30 a.m. - 3:30 p.m. Sign-in begins at 8:00 a.m.

This one-and-a-half day course provides WWTP personnel with the opportunity to learn the laboratory tests for NPDES permitting and plant operations. It prepares participants for the optional NEWEA Voluntary Laboratory Analyst Certification Exam that takes place after the course. Topics to be covered include proper sampling techniques; analyses, meter calibrations, and general QA for pH; total residual chlorine; total suspended solids; biochemical oxygen demand; E-coli; total phosphorous and turbidity; secondary treatment processes; lab management; and chemical hygiene.

Students must bring a basic calculator.

IN ORDER TO TAKE THE EXAM, YOU MUST APPLY DIRECTLY TO NEWEA. You do not need to take the course to take the exam. Exam forms can be downloaded at www. newea.org (click on "Your Career" and "Voluntary Certification") or you may call NEWEA at 781-939-0908 for an application.

CONNECTICUT

MAINE

MASSACHUSETTS
NEW HAMPSHIRE
NEW YORK
RHODE ISLAND
VERMONT

Instructor: Andy Fish, VT DEC

<u>Cost</u>: \$185 (lunch included)

<u>Credits</u>: 9 Training Contact Hours

Course #: etc1487



CLICK HERE TO REGISTER ONLINE WWW.NEIWPCC.ORG/PORTAL/CONNECT.ASP

Course #

Your Name	
Wastewater License #	State
Company/Facility	
Street	
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Mail form and payment to:

Course Title

NEIWPCC - Training; 650 Suffolk Street, Suite 410, Lowell, MA 01854 Or fax with a purchase order to: (978) 323-7919. Registrations <u>CANNOT</u> be completed over the phone. Hard copies MUST be mailed or faxed. PLEASE NOTE: Enrollment is on a first-come, first-served basis, so please return your application as soon as possible. We appreciate you taking time to notify us if you cannot attend a course for which you have registered. This makes a big difference to someone else who requires the training. THANK YOU!

- Checks/Money Orders: Should be made payable to "NEIWPCC Training". Note New Policy: There is a \$15.00 fee for checks returned due to insufficient funds.
- Registration Deadline: You must register at least seven days in advance of the first day of the course. Registrations after this time will incur a \$15 late fee.
- Cancellations/No-Shows: Seven days notice is required IN WRITING (mailed or faxed) for you to cancel at no cost. Cancellations received after this time will be charged \$25 for programs under \$125 and \$50 for programs over \$125. Registrants who do not cancel and who fail to show are responsible for full payment.
- Credits: Participants must attend ALL hours of training to be eligible for Training Contact Hours. TCHs are awarded upon completion of a course. The certificates are mailed to participants. All courses listed in this catalog have been approved for wastewater license renewal credit hours only, unless otherwise noted.
- Use one form per course. Photocopy this page to apply for multiple courses.
- NEIWPCC reserves the right to postpone, reschedule or cancel any course as attendance dictates.

Microbiology and Bacteria Tests

with Gil Dichter from IDEXX

Wednesday, November 4, 2015 Northern Maine Community College, Presque Isle, ME

DRINKING WATER: 8:30 a.m. - 11:45 a.m. Sign-in begins at 8:00 a.m.

Course #: J1605

Credits: 3 Training Contact Hours

Approved for

Water Operators

WASTEWATER:

12:15 p.m. - 3:30 p.m. Sign-in begins at 11:45 a.m.

Course #: J1606

Credits: 3 Training Contact Hours

Approved for

Wastewater Operators

Maine's water and wastewater treatment plants must conduct bacteriological tests on their product throughout the year. New as well as seasoned operators will benefit from this training with Gil Dichter, World Wide Technical Support Manager at IDEXX Laboratories.

The morning session will focus on drinking water microbiology. The afternoon session will address wastewater microbiology. Laboratory Quality Control and Quality Assurance will be emphasized via hands-on training with these methods:

HPC (for water session only)

MF

Colilert, Colilert-18 & Colisure

Registration Form

The afternoon wastewater session will also cover:

Alternate Test Procedures for approval of a new method:

- Colilert-18 & Quanti-Tray for fecal coliforms; New Method Update Rule 2015 MPN vs. CFU



Instructor: Gil Dichter, IDEXX Labs

Cost: \$65 each

Registration

Deadline: 10/28/15

Make a day of it!

Attend both Drinking Water and Wastewater sessions and pay \$120 for both classes! Lunch provided for full-day attendees.



Funding provided in part by the Maine Drinking Water Program

To register online with a credit card, go to www.jetcc.org/schedule.php

Course Title _____Course # _____ Your Name Company/Facility _____ City/Town _____State ____Zip____ E-mail WW Operator # _____ DW Operator # ____ Indicate method of payment Amount Enclosed \$____ Check No. ______ or PO No. _____ or Credit Card_ indicate Visa, MC or Discover Credit Card #_____ _____ Expiration _____ month/year 3-digit code located on back of card Name on Card Signature Required _____

Mail Form and Payment to: JETCC, PO Box 487, Scarborough, ME 04070-0487 Or fax with a purchase order to: (207) 771-9028 or call (207) 253-8020 **PLEASE NOTE:** Enrollment is on a first-come, firstserved basis, so please return your application as soon as possible. Due to limited classroom space and the popularity of certain subjects, we often reach capacity. We appreciate you taking time to notify us if you cannot attend a course for which you have registered. This makes a big difference to someone else who requires the training.

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Evaluating Clarifier Performance

with John Esler

Friday, November 6, 2015 Augusta City Center, Augusta, ME 8:30 a.m. - 3:30 p.m. Sign-in begins at 8:00 a.m.

Clarifier configuration and depth are just some of the factors affecting clarifier performance. Various unit processes such as pump stations, treatment process, and flow distribution also influence function and performance.

Whether your facility's clarifiers are circular, square, or rectangular, after a day with nationally-recognized clarifier expert John Esler, you will know how to evaluate and maximize their performance. In this hands-on class, Esler will demonstrate techniques including dye studies, visual observations, current measurements, vertical solids profiles, and settleability and flocculation tests.

The class will conclude with a discussion of how clarifier performance can be improved with control of biological processes, addition of chemicals, and physical modifications such as baffles and inlets.

Note: Hands-on activities at Greater Augusta Utility District

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Instructor:

John Esler -

Clarifier Performance Evaluation Services, Inc.

Cost: \$120

Credits: 6 Training Contact Hours

Approved for

Wastewater Operators

Course #: J1607

Registration Deadline

10/30/15

To register online with a credit card, go to www.jetcc.org/schedule.php

Registration r	orm		
Course Title		Course # _	
Your Name			
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Street			
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Mail Form and Payment	to:		

Or fax with a purchase order to: (207) 771-9028 or call (207) 253-8020

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Process Control for Activated Sludge

Tuesday, November 10, 2015 Bangor WWTP, Bangor, ME 8:30 a.m. - 3:30 p.m. Sign-in begins at 8:00 a.m.

The successful operation of an activated sludge wastewater system depends on the ability of the operator to create and maintain an environment where the microorganisms (bugs) do the best possible job of removing pollutants from the water. There are many factors that affect the bugs, some of which the operator can control and some of which he/she cannot. This class will discuss the factors that the operator can control and how those factors affect the treatment process. We will also discuss the process control tests, including sludge settleability, sludge concentration, oxygen uptake, microscopic examination, and clarifier blanket depth that can help the operator know the quality and quantity of activated sludge in the system and help him/her adjust the process for maximum efficiency.



Instructors: Richard Darling, P.E.

Mike Harris, City of Ellsworth

Cost: \$120

Credits: 6 Training Contact Hours

Approved for

Wastewater Operators

Course #: J1608

Registration Deadline

11/3/15

To register online with a credit card, go to www.jetcc.org/schedule.php

Registration	Form		
Course Title		Course #	
Your Name			
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Indicate method of paym	ent	Amount Enclosed \$	
Check No.	or PO No	or Credit Cardindicate Visa, MC or Discover	
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Caring for your Laboratory Instruments, QA/QC, and Control Charting

Tuesday, November 17, 2015 The Neighborhood House, Northeast Harbor, ME 8:30 a.m. - 3:30 p.m. Sign-in begins at 8:00 a.m.

This course is for anyone working in a water or wastewater laboratory. The first half of the day will cover quality control of laboratory instruments and equipment, with a focus on standards and calibration methods.

Instruments to be discussed include:

BalancesPressure gagesCentrifugesMicroscopesTurbidimetersBathsChlorine analyzersSpectrophotometersThermometersConductivity metersIncubatorsPipettes

The instructor will also discuss ISO standards, World Quality, and the National Environmental Laboratory Accreditation Conference (NELAC) as well as important lab environment considerations such as temperature, humidity, and windows.

The second half of this session will cover how to establish a QA/QC (quality assurance/ quality control) program in your lab and will review statistical control charts and sampling techniques.



Instructors:

Richard Schieferstein – QC Services, Inc. Andy Wendell – ClearWater Laboratory

Cost: \$120

Credits: 6 Training Contact Hours

Approved for Water and Wastewater Operators

Course #: J1609

Registration Deadline

11/10/15



Funding provided in part by the Maine Drinking Water Program

To register online with a credit card, go to www.jetcc.org/schedule.php

Registration Form Course Title ______Course # _____ Your Name ___ Company/Facility _____ City/Town _____State ____Zip____ WW Operator # _____ DW Operator # _____ Indicate method of payment Amount Enclosed \$ Check No. _____ or PO No. ____ or Credit Card___ indicate Visa, MC or Discover Credit Card #____ 3-digit code _____ Expiration ____ month/year located on back of card Name on Card Signature Required ____ **Mail Form and Payment to:**

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Pump System Optimization for WW and DW Facilities

Wednesday, November 18, 2015 Portland Water District, Portland, ME 8:30 a.m. - 3:30 p.m. Sign-in begins at 8:00 a.m.

Course #: J1610

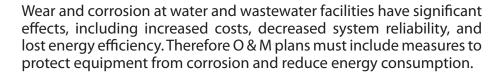
Registration Deadline: 11/10/15

Registration Form

Thursday, November 19, 2015 Copia Specialty Contractors, Bangor, ME 8:30 a.m. - 3:30 p.m. Sign-in begins at 8:00 a.m.

Course #: J1611

Registration Deadline: 11/12/15



This course will focus on pumps, pump components, and performance while covering the characteristics of wear and corrosion. You will learn how performing a pump assessment can identify areas in need of attention while also learning how to reduce energy loss and preserve equipment to maximize reliability and efficiency.



Instructors:

Lee Stanley - Copia Specialty Contractors Benjamin Stevens - A.W. Chesterton

Cost: \$120

Credits: 6 Training Contact Hours

Approved for Water and Wastewater Operators



Funding provided in part by the Maine Drinking Water Program

To register online with a credit card, go to www.jetcc.org/schedule.php

Course Title		Course #
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Indicate method of payment	Amo	ount Enclosed \$
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Creating O&M Manuals and SOPs

Tuesday, December 1, 2015 Kennebec Sanitary Treatment District, Waterville, ME 8:30 a.m. - 3:30 p.m. Sign-in begins at 8:00 a.m.

In a perfect world your O & M Manual is readily accessible, contains a variety of information specific to your facility, and is updated regularly. The O & M Manual is a great tool for recording SOPs, training new employees, keeping records, and documenting items for occasional reference. Regulators also consider this document to be of great significance.

In this class you will receive guidance on building a useful O & M Manual for your facility. You will learn what information should be documented, where to collect that material, and how to organize it. You will also learn about electronic tools that you can use to make your O & M Manual more available to your crew, interactive, and easier to update.



Funding provided in part by the Maine Drinking Water Program



Instructors:

Scott Firmin, Portland Water District Jim Crowley, Maine DEP Stacy Thompson, City of Saco

Cost: \$120

Credits: 6 Training Contact Hours

Approved for Water and Wastewater Operators

Course #: J1612

Registration Deadline

11/24/15

To register online with a credit card, go to www.jetcc.org/schedule.php

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Or fax with a purchase order to: (207) 771-9028 or call (207) 253-8020

JETCC, PO Box 487, Scarborough, ME 04070-0487

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- Checks/Money Orders: Should be made payable to "JETCC Training."
- **Returned Check Policy:** There is a \$15.00 fee for checks returned due to insufficient funds.
- **Registration Deadline:** Please note registration deadline above. Registrations after this time will incur a \$15 late fee.
- Cancellations/No Shows: Seven days notice is required IN WRITING (mailed or faxed) for you to cancel at no cost. Cancellations received after this time will be charged \$25 for programs under \$100 and \$50 for programs over \$100. Registrants who do not cancel or who fail to show are responsible for full payment.
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Mechanical Power Transmission Basics:

Motor to the machine, and how speed, horsepower, and torque are related!

Thursday, December 3, 2015 Augusta Civic Center, Augusta ME 8:30 a.m. - 3:30 p.m. Sign-in begins at 8:00 a.m.

Electric motors drive most equipment in water and wastewater treatment plants. Whether you are a mechanic or all-around operator who handles many different tasks, it is beneficial for you to understand the basic functioning and application of motor's component. This course provides a basic overview of motors, couplings, gear reducers, V-belts, timing belts, and roller chain drives as well as a discussion of how speed, horsepower, and torque are all related.

The instructors will also explain the features of various product options and cover basic maintenance practices for specific, commonly used products including Baldor electric motors, Rexnord couplings, Sumitomo gear reducers, Gates belt drives, and UST sprockets and roller chains. In the afternoon, the class will break into small groups for hands-on time with each product.



Instructors:

Brad Freeman – Motion Industries
Dave Redman – Baldor Motors
Greg Sage – Rexnord/Falk Couplings
Quinn Golden – Sumitomo Drive Technologies
Steve Baracki – UST Chain and Sprockets
Steve Hilbrunner – Gates Corporation

Cost: \$120

Credits: 6 Training Contact Hours

Approved for Water and Wastewater Operators

Course #: J1613

Registration Deadline

11/25/15

Sponsored by Motion Industries

Funding provided in part by the Maine Drinking Water Program

To register online with a credit card, go to www.jetcc.org/schedule.php

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Or fax with a purchase order to: (207) 771-9028 or call (207) 253-8020

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Managing Fats, Oils, and Grease (FOG)

Tuesday, December 8, 2015 The Clambake Restaurant, Scarborough, ME 8:30 a.m. - 3:30 p.m. Sign-in begins at 8:00 a.m.

The presence of fats, oils, and grease (FOG) in a wastewater collection system and the treatment process presents many challenges for plant operators. Not only is FOG a headache for operators, but it can also be a challenge for restaurants, schools, and industries that generate it. And then, who regulates FOG and where does it go?

Grease trap design, inspection, and grease removal is regulated, but while Subsurface Wastewater Disposal Rules (SSWD) set standards for businesses, Maine DEP and insurers require operation and maintenance plans for municipalities and treatment facilities. Also some communities rely on a Code Enforcement Officer (CEO) to inspect and enforce, while others may rely on a Licensed Plumbing Inspector (LPI), wastewater treatment plant operator, or public works official.

This course includes a classroom session and a field trip that will teach you what to expect and how to comply with regulations. Learn from some of Maine's seasonal communities that have implemented successful FOG and collection system management plans.



Instructors: Glenn Angell, Maine DHHS

Clarissa Trasko, Maine DEP Terry Savage, Mt. Desert WPCF Travis Jones, Bar Harbor WWTF

Cost: \$120

Credits: 6 Training Contact Hours

Approved for

Wastewater Operators

Course #: J1614

Registration Deadline

12/1/15

To register online with a credit card, go to www.jetcc.org/schedule.php

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THANK YOU!

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Basic Blueprint Reading

Thursday, December 17, 2015 Kennebunkport Fire Station, Kennebunkport, ME 8:30 a.m. - 3:30 p.m. Sign-in begins at 8:00 a.m.

This basic program will provide drinking water, wastewater and collection systems personnel with the fundamentals of construction drawings. Program content will include the interpretation and review of actual drawings used to plan, construct, or modify buildings and infrastructure for a distribution, collection, or treatment facility.

Attendees will become familiar with symbols used in the design and installation of piping, mechanical and electrical equipment through the use of graphics.



Funding provided in part by the Maine Drinking Water Program



Instructors: Michael Stein, Wright-Pierce

Kyle Coolidge, Wright-Pierce

Cost: \$120

Credits: 6 Training Contact Hours

Approved for Water and Wastewater Operators

Course #: J1615

Registration Deadline

12/10/15

To register online with a credit card, go to www.jetcc.org/schedule.php

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