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<tr>
<th>DATE</th>
<th>COURSE TITLE</th>
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<th>HOURS</th>
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<td>Wells</td>
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<tr>
<td>February 19</td>
<td>Disinfection Options, Extended Disinfection Season, and the New Lead Rule</td>
<td>Falmouth</td>
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<tr>
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<tr>
<td>March 4</td>
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<tr>
<td>March 18</td>
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<td>*6</td>
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<td>Sponsored by Motion Industries</td>
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<td>April 9</td>
<td>Instrumentation, Control Networks, and SCADA Review</td>
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<td>April 14</td>
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<td>Augusta</td>
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<tr>
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<tr>
<td>April 23</td>
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<td>Wastewater Odor Production and Control</td>
<td>Portland</td>
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<td>Guest Speaker Michael Gerardi</td>
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<td>May 12 thru 14</td>
<td>O &amp; M of Wastewater Collection Systems (w OPTIONAL NEWEA Exam)</td>
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All programs are approved by Maine DEP for Wastewater Operator certification renewal.
*Programs are also approved by Maine Board of Licensure of Water System Operators.
Special thanks to Maine Water Environment Association (MEWEA) for help in defraying our printing costs.
Maine JETCC is managed by NEIWPCC through a contract with the Maine Department of Environmental Protection.
Winter/Spring 2020 Training Courses

Navigating the Bid Process: From Submittal to Install

Tuesday, February 11, 2020
York County Community College, Wells, ME
8:30 a.m. - 3:30 p.m.
Sign-in begins at 8:00 a.m.

This panel style class will feature a combination of engineers, operators and industry supporters sharing years of experience in construction planning and equipment replacement. Whether you go out to bid or work with a sole source supplier, there are many steps along the way where what you want, what you expect, and the end product evolves dramatically. This group of experts will guide you through the bid process and explain how it happens. You will learn how to get what you want and how to properly document modifications through the process.

- Condition Assessment (Repair vs. Replace)
- Bidding documents (what to look for)
- Submittal process
- Sole source procurement
- Resident Inspection (examples of good and poor)
- As-built plans vs. construction plans

Instructors:
John Hart, Russell Resources
David Hughes, Scarborough Sanitary District
Nick Rico, Wells Sanitary District
Gordon Smith, Atlantic Resource Consultants
Rob Pontau, Brunswick Sewer District

Cost: $120
Credits: 6 Training Contact Hours
Approved for Water and Wastewater Operators

Course #: J2015
Registration Deadline 2/4/20

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 ________________________________________________________
Street ___________________________________________________________________
City/Town __________________ State __________ Zip __________________________
Telephone __________________________ Fax _________________________________
E-mail ___________________________________________________________________

WW Operator # ________________ DW Operator # ________________

Indicate method of payment

☐ Check No. ________________ ☐ or PO No. ________________ ☐ or Credit Card

Amount Enclosed $ __________

Credit Card # __________________________________________________________
3-digit code ________________ Expiration __________________________
located on back of card

Name on Card __________________________________________________________

Signature Required ____________________________________________________ Date __________________

Mail Form and Payment to:
JETCC, 584 Main Street, South Portland, ME 04106
Or fax with a purchase order to: (207) 771-9028 or call (207) 253-8020

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☐ 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.

☐ Use one form per course. Photocopy this page to apply for multiple courses.
Disinfection Options, Extended Disinfection Season, and the New Lead Rules

Instructors:
Gregg Wood, Maine DEP
Bill Sheehan, Maine DEP
Amilyn Stillings, Maine DHHS
Dale Clark, Anson-Madison Sanitary District
Paul Rodriguez, Portland Water District
Others TBA

Cost: $120

Credits: 6 Training Contact Hours
Approved for Water and Wastewater Operators

Treated wastewater and potable water are disinfected to kill and control harmful pathogens like bacteria, viruses and parasitic diseases. With a variety of disinfection methods available, the benefits and limitations of each must be considered.

In the morning, presenters will review and compare common disinfection methods for drinking water and wastewater treatment. There will also be a discussion on peracetic acid which some Maine facilities are now experimenting with.

The afternoon focus will be on rule changes. DEP staff will discuss the extended disinfection season and note possible challenges for traditional disinfection. DHHS staff will also share the latest information on the Lead and Copper Rule.

This class will benefit operators and superintendents seeking a review on disinfection methods and those wanting to understand the latest rules.

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

Registration Form

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Your Name ____________________________________________________________________________

Company/Facility _________________________________________________________________

Street ________________________________________________________________________________

City/Town __________________________ State ___________ Zip ________________

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Funding provided in part by the Maine Drinking Water Program
Winter-Spring 2020 Training Courses

Brewery Discharges: Pretreatment and Pollution Prevention

Wednesday, March 4, 2020
Allagash Brewing, Portland, ME
8:30 a.m. - 3:30 p.m.
Sign-in begins at 8:00 a.m.

The discharge of untreated high-strength wastewater from breweries and similar industries can have significant impacts on municipal wastewater facilities if not properly controlled at the source.

This class discusses brewery processes and associated pollutants, pollution prevention opportunities, and pretreatment requirements for brewery discharges.

The class emphasizes working with local breweries to ensure that brewery discharges do not violate pretreatment standards, and to prevent potential impacts from these industrial dischargers.

Instructors: Mike Jennings, NEIWPCC
Justin Pimpare, US EPA
Jim Crowley, Maine DEP
Rebekah Sirois, Portland Water Dist.
Luke Truman, Allagash Brewing

Cost: $120

Credits: 6 Training Contact Hours
Approved for Wastewater Operators

Course #: J12018
Registration Deadline: 2/26/20

The discharge of untreated high-strength wastewater from breweries and similar industries can have significant impacts on municipal wastewater facilities if not properly controlled at the source.

This class discusses brewery processes and associated pollutants, pollution prevention opportunities, and pretreatment requirements for brewery discharges.

The class emphasizes working with local breweries to ensure that brewery discharges do not violate pretreatment standards, and to prevent potential impacts from these industrial dischargers.

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

Registration Form

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Your Name ________________________________________________________________________
Company/Facility __________________________________________________________________
Street ____________________________________________________________________________
City/Town ___________________________ State _______ Zip ______________
Telephone ___________________________ Fax _________________________________
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Winter-Spring 2020 Training Courses

Hands-On Laboratory Training

Tuesday, March 10, 2020
Kennebec Sanitary Treatment District, Waterville, ME
8:30 a.m. - 3:30 p.m.
Sign-in begins at 8:00 a.m.

This hands-on workshop provides the opportunity to learn or review how to conduct the tests commonly performed in a wastewater treatment facility. You will also learn proper techniques for tests that are typically done by an outside laboratory, considerations for choosing a lab, and how to review and understand a lab’s results to ensure valid and reportable data.

Hands-on tests include:
- Biochemical Oxygen Demand (BOD)
- Solids - TSS Settleometer, Imhoff
- E. Coli - Plates and Idexx Method
- Microscopic Analysis

This session, which is led by highly experienced laboratorians, will be helpful to fine-tune a daily process or to prepare for a wastewater exam.

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

Registration Form

Course Title ___________________________________________ Course # ____________

Your Name ___________________________________________________________________

Company/Facility ____________________________________________________________

Street ________________________________________________________________________

City/Town __________________________ State _______ Zip _________________________

Telephone __________________________ Fax _________________________________

E-mail _______________________________________________________________________

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Winter/Spring 2020 Training Courses

Motors, Controls, and Electrical Schematics with Hands-on Wiring

Wednesday, March 18, 2020
CES Inc., Brewer, ME
8:30 a.m. - 3:30 p.m.
Sign-in begins at 8:00 a.m.
Course #: J2020
Registration Deadline: 3/11/20

Thursday, March 19, 2020
University of Maine at Farmington, Farmington, ME
8:30 a.m. - 3:30 p.m.
Sign-in begins at 8:00 a.m.
Course #: J2021
Registration Deadline: 3/12/20

Instructors: Larry Mills, Williamson Pump & Motor
Adam Canover, Primex Controls
Greg Harmon, Primex Controls

Cost: $120

Credits: 6 Training Contact Hours
Approved for Water and Wastewater Operators

Space is limited, so register early!

This class will cover motor construction and electrical principals, control panel components, functionality and wiring schematics.

A significant portion of the class will involve hands-on activities with wiring circuits to get a better understanding of how circuits shown on schematics actually look and function using training control panels.

You will learn to identify electrical symbols on schematics and see examples of various meters used to troubleshoot them. Arc Flash electrical safety will be discussed and how the industry now builds control panels to minimize risk and accidents. Examples will be shown to compare old and new control panel construction, including how panels are becoming more sophisticated with PLC’s and Smart Controllers.

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

Registration Form

Course Title_________________________________________ Course #______________

Your Name ____________________________________________________________________

Company/Facility _______________________________________________________________

Street _______________________________________________________________________

City/Town __________________________________________ State ______ Zip______________

Telephone __________________________ Fax ________________________________

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Funding provided in part by the Maine Drinking Water Program
Ongoing maintenance and condition assessment are crucial to an effective O & M plan. It does not all need to be complicated.

This training, with interactive stations will introduce drinking water and wastewater operators to some valuable products and tools for increasing the longevity of facility equipment.

Whether tightening, loosening, fastening, coating, cleaning or absorbing, the effectiveness of lubricants, coatings, adhesives, cleaners and sorbents may be impacted by temperature, humidity, dust, static and material compatibility.

Participants in this training will explore applications for simple and efficient fixes around the plant and in the field.

Sponsored by Motion Industries

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

Registration Form

Course Title_________________________________________ Course # __________________________
Your Name__________________________________________
Company/Facility_____________________________________
Street___________________________________________________________________________
City/Town________________________________ State __________ Zip ______________________
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Winter-Spring 2020 Training Courses

Instrumentation, Control Networks, and SCADA Review

Thursday, April 9, 2020
Sanford-Springvale Historical Society, Springvale, ME
8:30 a.m. - 3:30 p.m.
Sign-in begins at 8:00 a.m.

Today’s drinking water and wastewater facilities rely on a number of different control systems in their treatment processes. Through observation and monitoring to process control, there are many instruments and systems to ensure the best quality product is achieved.

This class will help you determine when and where to use different types of field instruments as well as understand electrical process and instrumentation diagrams. Participants will also review a variety of Industrial control networks and the human machine interfaces available through SCADA.

Whether you seek to better understand systems in your own facility or are on the verge of upgrading equipment, this session will guide you through the design and application of typical instrumentation for water treatment instrumentation and process control systems.

Instructors: James Papadimitrou, Wright-Pierce
Phillip Arnold, Wright-Pierce

Cost: $120

Credits: 6 Training Contact Hours
Approved for Water and Wastewater Operators

Course #: J2023
Registration Deadline
4/2/20

Today’s drinking water and wastewater facilities rely on a number of different control systems in their treatment processes. Through observation and monitoring to process control, there are many instruments and systems to ensure the best quality product is achieved.

This class will help you determine when and where to use different types of field instruments as well as understand electrical process and instrumentation diagrams. Participants will also review a variety of Industrial control networks and the human machine interfaces available through SCADA.

Whether you seek to better understand systems in your own facility or are on the verge of upgrading equipment, this session will guide you through the design and application of typical instrumentation for water treatment instrumentation and process control systems.

Instructors: James Papadimitrou, Wright-Pierce
Phillip Arnold, Wright-Pierce

Cost: $120

Credits: 6 Training Contact Hours
Approved for Water and Wastewater Operators

Course #: J2023
Registration Deadline
4/2/20

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Funding provided in part by the Maine Drinking Water Program
Winter/Spring 2020 Training Courses

Water & Wastewater Math: Yes, You Can Do It!

Tuesday, April 14, 2020
Greater Augusta Utility District, Augusta, ME
8:30 a.m. - 3:30 p.m.
Sign-in begins at 8:00 a.m.

- Why do we need to know how to convert gallons to pounds?
- Cubic feet to gallons?
- What are cubic feet, anyway?

This fun and interactive class will answer these questions, explain how they relate to operating a plant and give you tips to carry forward into your career!

Students will use visual aids, math formulas and “pie wheels” to understand why and how to perform the calculations routinely used in the water/wastewater profession and on certification exams.

*Please bring a calculator to class to help solve math problems.*

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

Registration Form

Course Title __________________________________________ Course # ______________
Your Name _______________________________________________________________
Company/Facility __________________________________________________________
Street ______________________________________________________________________
City/Town __________________________________ State __________ Zip ____________
Telephone __________________________________________________________________ Fax __________________________________________________________________
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Signature Required ___________________________ Date _________________________

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Instructor:
Phyllis Rand, Greater Augusta Utility District

Cost: $120

Credits: 6 Training Contact Hours
Approved for Water and Wastewater Operators

Course #: J2024
Registration Deadline 4/7/20

Space is limited, so register early!

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City/Town __________________________________ State __________ Zip ____________
Telephone __________________________________________________________________ Fax __________________________________________________________________
E-mail ________________________________________________________________________

WW Operator # ___________ DW Operator # ___________

Indicate method of payment

☐ Check No. _______________ ☐ or PO No. _______________ ☐ or Credit Card _______________

Credit Card # ___________________________
2-digit code ___________ Expiration ___________
located on back of card
Name on Card ________________________________________________
Signature Required ___________________________ Date _________________________

Mail Form and Payment to:
JETCC, 584 Main Street, South Portland, ME 04106
Or fax with a purchase order to: (207) 771-9028 or call (207) 253-8020

Instructor:
Phyllis Rand, Greater Augusta Utility District

Cost: $120

Credits: 6 Training Contact Hours
Approved for Water and Wastewater Operators

Course #: J2024
Registration Deadline 4/7/20

Space is limited, so register early!

PLEASE NOTE: Enrollment is on a first-come, first-served 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.

THANK YOU!

- 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.
- 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.
- Use one form per course. Photocopy this page to apply for multiple courses.

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

Registration Form

Course Title __________________________________________ Course # ______________
Your Name _______________________________________________________________
Company/Facility __________________________________________________________
Street ______________________________________________________________________
City/Town __________________________________ State __________ Zip ____________
Telephone __________________________________________________________________ Fax __________________________________________________________________
E-mail ________________________________________________________________________

WW Operator # ___________ DW Operator # ___________

Indicate method of payment

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Pump Maintenance and Troubleshooting

Through classroom presentations and hands-on exercises, this course will cover the basic hydraulics, troubleshooting, and maintenance of self-priming sewage centrifugal pumps. A fully operational glass-faced pump will be used to demonstrate self-priming pump operation, cavitation, and troubleshooting techniques. Several actual-size display pumps will also be available for teardown and reassembly training, including the setting of wearplate/impeller clearances. While the pump breakdown and cavitation principles covered in the class are common in many filter plants and sewage handling facilities, this course will be particularly beneficial for Gorman Rupp pump users working in water and wastewater facilities.

To register online with a credit card, go to www.jetcc.org/schedule.php
Wastewater Odor Production and Control

Friday, May 1, 2020
Portland Water District, Jeff Nixon Development Center, Portland, ME
8:30 a.m. - 3:30 p.m.
Sign-in begins at 8:00 a.m.

This class provides a comprehensive review of the conditions responsible for biological odor production and the measures available to control odors. Odor causing operational conditions include: 1) forms of bacterial degradation 2) compounds and precursors of odorous compounds in wastewater, 3) the impact of substrates on odor production, 4) odor-producing bacteria, sulfur-reducing bacteria and fermentative bacteria 5) temperature, pH, and flow.

Changes in monitoring test values for detecting anaerobic conditions in the sewer system or treatment plant and evaluating the success or failure of odor control measures are offered. The monitoring tests include: alkalinity, ammonia, chemical oxygen demand (COD), dissolved oxygen, hydrogen sulfide in the sewer system atmosphere, oxidation-reduction potential (ORP), pH, sulfate, sulfide, and temperature. Operational measures for odor control that are presented include biological, chemical, and physical. Biological measures presented are bioaugmentation, biofilter, maintaining an anoxic condition, and maintaining an oxic condition. Chemical measures presented are disinfection, oxidation, pH adjustment, precipitation of sulfide, and scrubbing (scrubbers), and physical measures presented are adsorption, cleaning, covers, and reduction in turbulence.

Presenter: Michael Gerardi holds an MS in biology from James Madison University and provides wastewater operator training and troubleshooting of municipal and industrial wastewater treatment plants in the United States, Canada, the Caribbean, and Europe. He has authored more than 100 technical articles and is responsible for the development and presentation of wastewater biology courses at Pennsylvania State University.

Cost: $155

Credits: 6 Training Contact Hours
Approved for Wastewater Operators

Course #: J2027
Registration Deadline 4/24/20