

PENNTec 2019 WORKSHOP DETAILS

The following workshops are being offered during PennTec 2019 on June 2-5 at the Penn Stater Conference Center Hotel in State College, PA. You may add these courses to your PennTec registration, or you may register for individual course(s) separately. You must register in advance for these courses. All courses are limited to 40 attendees, unless otherwise noted.

Monday, 8:45-11:45am

A Safety Committee Workshop

Moderator: Lisa Cortazzo, ALCOSAN

PA DOT Flagger Certification

This course is PA DEP approved for **2.5 drinking water & wastewater contact hours**. Course ID 5974. **(Limited to 20 attendees.)**

Instructor: Kelly Kramer, RETTEW Associates

Why is traffic control important? What are the flagger qualifications? How do I comply with Publication 212, 213 and MUTCD? What equipment is necessary? What is the proper flagger position/location? How do I control traffic using stop/slow paddle or red flag? How do I control two-way traffic in one lane? How do I control traffic at an intersection? What should I do to control traffic in unique/special flagging situations? What is considered "safe" while flagging at night? How should I communicate with co-workers and the public? Upon successful completion of the course, each student shall receive a flagger certification card that is valid for 3 years from the date of course completion.

Monday, 8:45am-4:30pm

A PWO Committee Workshop

Securing Drinking Water & Wastewater Treatment Facilities

This course is PA DEP approved for **5.0 drinking water & wastewater contact hours**. Course ID 2952.

Instructor: Mike Sedon, Cranberry Township

The Water and Wastewater Systems Operators' Certification Regulation mandates that all certified operators complete the DEP's system security course. This requirement encompasses all classifications of operators, including those with a "grandfathered" certificate and newly licensed operators. The course must be completed by the end of the operator's first full cycle. Failure to complete the course will result in the loss of license. The course only needs to be taken once. The student will be able to recognize methods for developing and increasing security awareness as it applies to water and wastewater treatment facility operations.

Monday, 1:00-4:30pm

A Training Committee Workshop

Wastewater Microlife Basics

This course is PA DEP approved for **3.0 wastewater contact hours**. Course ID 3416.

Instructor: Jim Kern, PE, Central Delaware County Authority

The heart of any activated sludge plant is the microlife present in the facility. With the right distribution of the right microorganisms, a wastewater treatment plant will produce a crystal-clear effluent that is well within its discharge permit limits. The purpose of this course is to provide the operator with an understanding of the importance of the microlife. The operator will learn how to monitor and control the microlife population. Factors impacting the bacteria will be reviewed along with typical problems.

Tuesday, 8:00am-4:00pm

A PWO Committee Workshop

Distribution Systems

This course is PA DEP approved for **5.5 drinking water contact hours**. Course ID 6562.

Instructor: Mike Sedon, Cranberry Township

There are various components and considerations which must be addressed in a distribution system. The goal of this workshop is to supply students with the necessary knowledge to prepare for the distribution system certification examination. Content will include: Distribution Operator Certification; Distribution Network Components; Distribution Storage; and Water Quality and Monitoring. This workshop is intended to help participants prepare for the Class E certification examination. Therefore, the target audience is those who wish to take the Class E certification examination or those who wish to gain a better understanding of distribution system networks, storage, and monitoring.

Tuesday, 8:00am-4:30pm

A PWO Committee Workshop

Moderator: Dennis Duryea, Kiski Valley Water Pollution Control Authority

Wastewater Professionals Guide to Online Process Instrumentation for Biological Nutrient Removal Activated Sludge Monitoring

This course is PA DEP approved for **6.0 wastewater contact hours**. Course ID 6423.

Instructor: Robert C. Smith, YSI, a Xylem Brand

Nutrient removal and sustainability are two of the biggest drivers in the wastewater industry today. Both demand increased automation of the activated sludge process implemented using feedback from online sensors in order to be achieved. Technology has stepped up to fill the need with a new generation of online sensors capable of monitoring at a frequency, accuracy, and reliability suitable for feedback control. However, even the best designed sensor cannot fulfill its full capabilities without proper training of the end user. Unfortunately, Operators are often left on their own to figure out how to operate and maintain these highly technical devices after the salesman or the Contractor leaves causing reduced performance and lifetime. This workshop provides participants essential information on the selection and care of online instrumentation for monitoring and control of biological nutrient removal (BNR) activated sludge. The main objective is to teach participants good practices that are essential to successful process monitoring.

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Tuesday, 8:00am-4:30pm

A PWO Committee Workshop

Certification Exam Study Prep Course

This course is made up of two sessions and they cannot be registered for separately. It is PA DEP approved for **a total of 6.0 wastewater contact hours may be earned**; 3.0 hours for each half day.

Wastewater General and Activated Sludge Exam Prep

This course is PA DEP approved for **3.0 wastewater contact hours**. Course ID 7995.

Instructor: Walter Higgins, US EPA

This course was developed to assist individuals who are taking the wastewater exams. This is a brief overview. Students, who have been studying for the exams, will use this course as a refresher. Students who have not been preparing for an exam can use this course to give them an idea of what they know and what they need to study. Content will include: cBOD Removal; Nitrification Fundamentals; Denitrification Fundamentals; and Chem-P and Bio-P Fundamentals. In addition to those who are taking the wastewater exams, individuals who would like to learn the basics of wastewater treatment and activated sludge would benefit from attending.

Activated Sludge/Wastewater Math Course

This course is PA DEP approved for **3.0 wastewater contact hours**. Course ID 8048.

Instructor: Christine Volkay-Hilditch, PE, BCEE, City of Lancaster

This 3-hour course on activated sludge/wastewater math includes lecture and problem solving, with an emphasis on how to use the PA DEP operator certification test formula sheet. The materials are from the 90-hour PA DEP operator certification program currently used at the community colleges.

Wednesday, 8:00-11:30am

A Laboratory Practices Committee Workshop

Moderator: Michael Henao, North Huntingdon Township Municipal Authority

Tips for PT Success

This course is PA DEP approved for **3.0 drinking water & wastewater contact hours**. Course ID 8021.

Instructor: Larissa Hoover, Cranberry Township

Tips for PT success is a class that focuses on our yearly Proficiency Testing (PT) requirements. Every year, all accredited labs are required to run a PT study and report the results. Are you struggling with your PT testing? Maybe you just want some tips to make the whole process simpler. No matter if you've run PTs for 20 years or just 1 year, there is something for everyone to learn!

Wednesday, 8:00-11:30am

A Training Committee Workshop

Troubleshooting Your Activated Sludge Process

This course is PA DEP approved for **3.0 wastewater contact hours**. Course ID 2371.

Instructor: Jim Kern, PE, Central Delaware County Authority

The course will review: the most common reasons an activated sludge plant fails; typical testing to determine performance limiting factors; and solutions to common effluent issues. This course has been expanded to include nutrient removal.



Not a member of PWEA? Go to www.pwea.org to join online or to download the membership application form. Members receive the PWEA member rate for the PennTec Conference and for PWEA training events.

Member benefits include the *Keystone Water Quality Manager*, a quarterly technical publication containing legislative updates, design/process operations articles, problem-solving case histories, and advance notice of continuing education. This valuable magazine also highlights current technology trends and issues affecting water quality.

You will also receive the monthly PWEA e-Newsletter, keeping you up-to-date on the latest water quality news and PWEA events.

If you have questions about PWEA, please contact the PWEA Administrative Office at 717-642-9500 or by email at pwea@pwea.org.

2019 WORKSHOP REGISTRATION FORM

PLEASE PRINT

Registrant Name: _____ Nickname (for badge): _____
 Organization: _____
 Mailing Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ Email: _____
 PWEA Member #: _____ PA DEP Client #: _____ PE License #: _____
 Check here if you are a Young Professional. (Age 35 or younger; Driver's License ID required.)

Community Service Project (Sunday, 11am-3pm): I want to volunteer! Send me more info when it is available.

	NO FEE WITH FULL PENNTEC REGISTRATION*	FEE FOR WORKSHOP ONLY	
		BY MAY 15	ONSITE
Monday, 8:45-11:45am - A Safety Committee Workshop PA DOT Flagger Certification A DEP approved for 2.5 drinking water & wastewater contact hours	<input type="checkbox"/> \$0	PWEA Member <input type="checkbox"/> \$55 Non-Member <input type="checkbox"/> \$110	<input type="checkbox"/> \$75 <input type="checkbox"/> \$130
Monday, 8:45am-4:30pm - A PWO Committee Workshop Securing Drinking Water & Wastewater Treatment Facilities PA DEP approved for 5.0 drinking water & wastewater contact hours	<input type="checkbox"/> \$0	PWEA Member <input type="checkbox"/> \$100 Non-Member <input type="checkbox"/> \$155	<input type="checkbox"/> \$120 <input type="checkbox"/> \$175
Monday, 1:00-4:30pm - A Training Committee Workshop Wastewater Microlife Basics PA DEP approved for 3.0 wastewater contact hours	<input type="checkbox"/> \$0	PWEA Member <input type="checkbox"/> \$75 Non-Member <input type="checkbox"/> \$130	<input type="checkbox"/> \$95 <input type="checkbox"/> \$150
Tuesday, 8:00am-4:00pm - A PWO Committee Workshop Distribution Systems PA DEP approved for 5.5 drinking water contact hours	<input type="checkbox"/> \$0	PWEA Member <input type="checkbox"/> \$110 Non-Member <input type="checkbox"/> \$165	<input type="checkbox"/> \$130 <input type="checkbox"/> \$185
Tuesday, 8:00am-4:30pm - A PWO Committee Workshop Wastewater Professionals Guide to Online Process Instrumentation for Biological Nutrient Removal Activated Sludge Monitoring PA DEP approved for 6.0 wastewater contact hours	<input type="checkbox"/> \$0	PWEA Member <input type="checkbox"/> \$110 Non-Member <input type="checkbox"/> \$165	<input type="checkbox"/> \$130 <input type="checkbox"/> \$185
Tuesday, 8:00am-4:30pm - A PWO Committee Workshop Certification Exam Study Prep Course PA DEP approved for 6.0 wastewater contact hours	<input type="checkbox"/> \$0	PWEA Member <input type="checkbox"/> \$110 Non-Member <input type="checkbox"/> \$165	<input type="checkbox"/> \$130 <input type="checkbox"/> \$185
Wednesday, 8:00-11:30am - A Lab Practices Committee Workshop Tips for PT Success PA DEP approved for 3.0 drinking water & wastewater contact hours	<input type="checkbox"/> \$0	PWEA Member <input type="checkbox"/> \$75 Non-Member <input type="checkbox"/> \$130	<input type="checkbox"/> \$95 <input type="checkbox"/> \$150
Wednesday, 8:00-11:30am - A Training Committee Workshop Troubleshooting Your Activated Sludge Process PA DEP approved for 3.0 wastewater contact hours	<input type="checkbox"/> \$0	PWEA Member <input type="checkbox"/> \$75 Non-Member <input type="checkbox"/> \$130	<input type="checkbox"/> \$95 <input type="checkbox"/> \$150

* To qualify for complimentary workshop registration with your full PennTec registration, attach this form to the completed registration form found on page 23.

Method of Payment Total Due: \$ _____

Check (payable to PWEA)
 MasterCard
 Visa
 American Express
 Discover

Card Number: _____ Expiration Date: _____ Security Code: _____

Name (as it appears on card): _____ Signature: _____

Billing Address (if different from above): _____

Cancellation/Substitution Policy
 No refunds granted after April 30th. A \$50 cancellation fee will be assessed on all refund requests received by April 30th. All refunds must be requested in writing. Substitutions are permitted with a \$25 per person substitution fee. Substitutions may be made until May 15th and must be made in writing, accompanied by a new registration form.

Please send completed registration form and full payment to:
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 Fax: 570-549-2221 • Phone: 570-549-2204
 Email: cindyrock@pwea.org