

PENNTec 2021 WORKSHOP DETAILS

The following workshops are being offered during PennTec 2021 on June 20-23 at the Kalahari Resort & Convention Center in Pocono Manor, 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, 8:45am-12:00pm

A Laboratory Practices Committee Workshop

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

This course focuses on 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 twenty years or just one year, there is something for everyone to learn! *Includes breaks, lunch and student workbooks.*

Monday, 8:45am-4:00pm

A Professional Operators Committee Workshop

Securing Drinking Water and Wastewater Treatment Facilities

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

Instructor: Dennis Mike, Butler Area Sewer Authority

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. *Includes breaks, lunch and student workbooks.*

Monday, 8:45am-4:30pm

A Professional Operators Committee Workshop

Wastewater Exam Study Prep Course

This class consists of two courses PA DEP approved for a total of **6.0 wastewater contact hours**. You must attend both parts to receive full credit:

Wastewater General & Activated Sludge Exam Prep – Course ID 7995
Wastewater Exam Math Prep – Course ID 8377

Instructor: Walter Higgins, US Environmental Protection Agency

This course was developed to assist individuals who are taking the wastewater exams. The first part 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. The second part will cover math. At the end of this course, students will be able to: choose the correct formula to be used for each type of math problem; recognize and differentiate the data types or units in each problem (i.e. lbs vs ft³); use the taught problem-solving procedure to answer the problems by following a 6-step process; solve rate, loading, F/M, and volume problems.

Monday, 1:00pm-5:00pm

A Professional Operators Committee Workshop

Fundamentals of Wastewater Treatment

This course is PA DEP approved for **3.5 wastewater contact hours**. Course ID 7681.

Instructor: Michael Sedon, Cranberry Township

The purpose of this course is to provide students with necessary knowledge to prepare for the certification exam and to enhance an operator's skills and knowledge if already employed at a wastewater treatment facility. This course is intended to assist the student in preparing for the certification exam and for enhancing the skills and knowledge of operators already employed at a wastewater treatment facility. The course will include discussions about: screening; grit removal; comminution and pre-aeration; principles of operation; trickling filters; activated sludge; and waste treatment ponds. *Includes breaks, lunch and student workbooks.*

Tuesday, 8:00am-11:00am

A Safety Committee Workshop

Personal Protective Equipment

This course is PA DEP approved for **2.0 drinking water & wastewater contact hours**. Course ID 6179.

Instructor: Kelly Kramer, RETTEW

This class is applicable to any employee or employer who may be required to work in environments with hazards that can only be mitigated through the use of Personal Protective Equipment (PPE). An overview of the role of PPE in the workplace and the various requirements that govern its use and applicability will be discussed. Common PPE usage and limitations thereof are addressed. Topics include: hazard control methods; hazard assessment; PPE selection and limitations; welding PPE; face shields; clothing requirements; hazard avoidance; respiratory protective equipment; selection; assigned protection factors; medical evaluations; usage limitations; maintenance; breathing air; training/program evaluation; fall protection; personal fall arrest systems; variants; harness/lanyard requirements; storage; gloves; chemical exposure potential; chemical protection; training; paying for PPE; and employer vs. employee responsibility. *Includes breaks, lunch and student workbooks.*

Tuesday, 8:00am-4:00pm

A Professional Operators Committee Workshop

Distribution Systems

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

Instructor: Michael Sedon, Cranberry Township

There are various components and considerations which must be addressed in a distribution system. The goal of this course 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 course is intended to help participants prepare for the Class E certification examination. Therefore, the target audience is those who wish to take the exam. It will also be beneficial to those who wish to gain a better understanding of distribution system networks, storage, and monitoring. *Includes breaks, lunch and student workbooks.*

PENNTEC 2021 WORKSHOP DETAILS

Tuesday, 8:00am-4:30pm

A Professional Operators Committee Workshop

Wastewater Professionals Guide to Online Process Instrumentation for BNR Activated Sludge Monitoring

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

Instructors: Benjamin Barker, and Justin King, both with YSI, a Xylem Brand

Nutrient removal and sustainability are two of the biggest drivers in the wastewater industry today. Both issues 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 course 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. *Includes breaks, lunch and student workbooks.*

Wednesday, 8:00am-11:30am

A Professional Operators Committee Workshop

Fats, Oils and Grease

This course is PA DEP approved for **3.0 wastewater contact hours**.
Course ID 6659.

Instructor: Dennis Mike, Butler Area Sewer Authority

This course is designed for the operator with known Fats, Oils and Grease (FOG) problems. It will address the problem, first at the source by discussing grease traps and interceptors and then address the issue of how to develop a grease hauling and treatment program. The course will outline ways to prevent FOG from entering the wastewater collection and conveyance system; how FOG is treated at treatment facilities; and how successful FOG programs are being administered and enforced. It will include case studies on how both small and large communities developed a FOG Management Program. *Includes breaks, lunch and student workbooks.*

Wednesday, 8:00am-11:30am

A Laboratory Practices Committee Workshop

Laboratory Ethics

This course is PA DEP approved for **3.0 drinking water & wastewater contact hours**. Course ID 7364.

Instructor: Larissa Hoover, Cranberry Township

This course provides detailed information for laboratory technicians and supervisors on the topic of lab ethics, based on Chapter 252. This course is for employees who need ethics refresher training for the laboratory every 14 months. The course discusses common definitions, state requirements, consequences, and prevention of unethical behavior, conflict of interest, ethics policies and agreements, data control, and legal defensibility, as well as red flags and data reporting. *Includes breaks, lunch and student workbooks.*

2021 WORKSHOP REGISTRATION FORM

PLEASE PRINT

Registrant Name: _____ Nickname (for badge): _____
 Organization: _____
 Mailing Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ Mobile Phone: _____
 Email Address: _____
 PWEA Member #: _____ PA DEP Client #: _____ PE License #: _____

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 31		ONSITE
Monday, 8:45am-12:00pm - A Lab Practices Committee Workshop Tips for PT Success A DEP approved for 3.0 drinking water & wastewater contact hours	<input type="checkbox"/> \$0	PWEA Member <input type="checkbox"/> \$70 Non-Member <input type="checkbox"/> \$125	<input type="checkbox"/> \$90 <input type="checkbox"/> \$145	
Monday, 8:45am-4:00pm - A PO 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"/> \$125 Non-Member <input type="checkbox"/> \$180	<input type="checkbox"/> \$145 <input type="checkbox"/> \$200	
Monday, 8:45am-4:30pm - A PO 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"/> \$105 Non-Member <input type="checkbox"/> \$160	<input type="checkbox"/> \$125 <input type="checkbox"/> \$180	
Monday, 1:00-5:00pm - A PO Committee Workshop Fundamentals of Wastewater Treatment PA DEP approved for 3.5 wastewater contact hours	<input type="checkbox"/> \$0	PWEA Member <input type="checkbox"/> \$85 Non-Member <input type="checkbox"/> \$140	<input type="checkbox"/> \$105 <input type="checkbox"/> \$160	
Tuesday, 8:00-11:00am - A Safety Committee Workshop Personal Protective Equipment PA DEP approved for 2.0 drinking water & wastewater contact hours	<input type="checkbox"/> \$0	PWEA Member <input type="checkbox"/> \$50 Non-Member <input type="checkbox"/> \$105	<input type="checkbox"/> \$70 <input type="checkbox"/> \$125	
Tuesday, 8:00am-4:00pm - A PO Committee Workshop Distribution Systems PA DEP approved for 5.5 drinking water contact hours	<input type="checkbox"/> \$0	PWEA Member <input type="checkbox"/> \$125 Non-Member <input type="checkbox"/> \$180	<input type="checkbox"/> \$145 <input type="checkbox"/> \$200	
Tuesday, 8:00am-4:30pm - A PO 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"/> \$125 Non-Member <input type="checkbox"/> \$180	<input type="checkbox"/> \$145 <input type="checkbox"/> \$200	
Wednesday, 8:00-11:30am - A PO Committee Workshop Fats, Oils and Grease PA DEP approved for 3.0 wastewater contact hours	<input type="checkbox"/> \$0	PWEA Member <input type="checkbox"/> \$70 Non-Member <input type="checkbox"/> \$125	<input type="checkbox"/> \$90 <input type="checkbox"/> \$145	
Wednesday, 8:00-11:30am - A Lab Practices Committee Workshop Laboratory Ethics PA DEP approved for 3.0 drinking water & wastewater contact hours	<input type="checkbox"/> \$0	PWEA Member <input type="checkbox"/> \$70 Non-Member <input type="checkbox"/> \$125	<input type="checkbox"/> \$90 <input type="checkbox"/> \$145	

* To qualify for complimentary workshop registration with your full PennTec registration, attach this form to the completed Conference Registration Form found on page 23.
 ** You may only register at the Workshop Only fee for one day of the Conference. If you wish to attend workshops on multiple days, you will need to pay for a Full Conference Registration and add workshops at no charge.

Method of Payment:

Check (payable to PWEA) Total Due \$ _____

Credit Card payments must be made online
 After we receive this form, you will be sent a confirmation email. There will be a link at the bottom of that email which will take you to the online payment screen for credit card payments.

Cancellation/Substitution Policy
 No refunds granted after May 15th. A \$50 cancellation fee will be assessed on all refund requests received by May 15th. All refunds must be requested in writing. Substitutions are permitted with a \$25 per person substitution fee. Substitutions may be made until May 31st 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