

# #1830 Pumps

## 6 WATER AND WASTEWATER CONTACT HOURS

Pumps and their related drives are probably one of the most complex pieces of machinery a water and wastewater operator encounters. Every operator should have a good basic understanding of their system's pumping equipment and how to properly maintain it. Operation and maintenance of pumps is the function of sustaining or restoring equipment so that it can perform its intended job safely, effectively, and economically. The purpose of this course is to train operators the importance of doing just that.

### Important!

**Masks are required by all attendees at  
PRWA training seminars.**

*Prior Authorization is required by our office if you  
are unable to wear a mask.*

## MEET THE INSTRUCTOR



**Glenn Cowles**  
*Director of Operations  
Water Technician*

Glenn Cowles has been employed as a PA Rural Water Association Water Technician since 2004. He has held a PA DEP Class AE (subclasses 1 through 14) Water License since 1998. Glenn also is a Certified PaWarn First Responder. Glenn has extensive knowledge in regulations, treatment, and leak detection. Prior to joining the PRWA team Glenn was employed with a contracting firm installing water and wastewater systems, followed by being employed by the local municipality where he resides operating & maintaining 2 water treatment plants, distribution system, and wastewater collection system resulting in over 30 years experience in the water and wastewater industry.

# October 8, 2020

**Holiday Inn**  
600 Wildflower Drive  
Wilkes-Barre, PA 18702  
**Luzerne County**

**Class Time: 8:00 am - 3:30 pm**

**Registration: 7:30 am**

*Lunch and materials provided with  
your training class registration*

### THE PRWA PROMISE

If you're not 100% satisfied with the training class for any reason, we will give you a refund!

**WWW.PRWA.COM/PROMISE**

## Method 334.0

### *Is it time for your instruments Routine Calibration Verification?*

In September 2009, the Environmental Protection Agency (EPA) published Method 334.0. In 2018, the Pennsylvania Department of Environmental Protection (DEP) required compliance of Method 334.0. Specifically, Pennsylvania drinking water systems are expected to follow Method 334.0 if they use a handheld, benchtop or on-line chlorine analyzer for any of the following:

- compliance monitoring at both the entry point and in the distribution system;
- monitoring used to obtain results for calculating log inactivation;
- or chlorine monitoring required as part of a permit condition.

In short, all community water systems and any noncommunity water system with surface water or 4-log treatment are required to follow Method 334.0.

To verify on-line analyzers and become Method 334.0 compliant systems must complete:

- The field sampler initial demonstration of capability. This is required for any individual who conducts chlorine analysis at the water system.
- The initial calibration verification is required for any handheld or benchtop analyzer used for chlorine analysis or used for comparison grab sampling within Method 334.0.
- Routine calibration verifications are required quarterly (at least every 90 days) for any handheld or benchtop analyzer used for chlorine analysis or used for comparison grab sampling within Method 334.0.

Many systems have done initial demonstration of capability for individuals who conduct chlorine analysis and have completed initial calibration verifications. To maintain Method 334.0 compliance, systems must complete Routine Calibration Verifications.

**PRWA will have staff at this training seminar to perform Routine Calibration Verifications for participating systems instruments.**

Operators can choose to attend only the seminar, attend the seminar and have equipment verified, or just have the equipment verified.

In addition to the instrument in need of routine calibration verification, paperwork specific to method 334.0 will be needed including:

- Initial calibration verification
- And, if completed at any time, quarterly instrument verification

In addition to the instrument(s) to be verified, the PRWA staff will need clean sample glassware. Additionally, if the instrument cannot be verified using a DPD pillow packet, the specific chemical/reagent needed should be provided.

**Cost:**  
**\$39 per Instrument**

### Questions?

Call (800) 653-7792 ext. 107 or 108  
Or email: Training@PRWA.com

# Registration Form

October 8, 2020

#1830 - Pumps

Please select an option:

- Training Class Only
- Method 334.0 Quarterly Verification Only
- Both Training Class & Method 334.0 Quarterly Verification

Number of Instrument(s):

\$39 per instrument

Location:

**Holiday Inn**

600 Wildflower Drive, Wilkes-Barre, PA 18702

**Luzerne County**

PRSRT STD  
U.S. POSTAGE  
PAID  
BELLEFONTE, PA  
PERMIT NO. 196

**Pumps**  
**Including Method 334.0**  
**Quarterly Verification**

**\*In addition to clean sample vial, do not forget to bring Initial Calibration Verification & Routine Calibration Verification paperwork for each instrument to be verified.**

Name: \_\_\_\_\_

PA DEP Client ID (if applicable): \_\_\_\_\_

System/Co.: \_\_\_\_\_

Phone: ( ) \_\_\_\_\_ Fax: ( ) \_\_\_\_\_

Address:  Home  System \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

## PAYMENT:

Check (payable to PRWA)

Invoice Me:  Home  System

Credit Card:  AmEx  Discover  Visa  MasterCard

Card Number \_\_\_\_\_

Exp Date (mm/yy): \_\_\_\_\_ CVC (3 or 4 Digit # on card): \_\_\_\_\_

Card Billing Zip Code: \_\_\_\_\_

Name on Card (Please print): \_\_\_\_\_

Signature: \_\_\_\_\_

PRWA Member?  Yes  No

### Attendance cost per person:

\$95 for PRWA Members

\$130 for Non-Members

\$39 for Instrument Verification  
(per instrument)

Amount Due:

\$ \_\_\_\_\_

For the most up to date information,  
check out **WWW.PRWA.COM**

Also, find us on social media.  
**Search: PA Rural Water**

To register by FAX or MAIL:

**FAX:** (814) 353-9341

**MAIL:** 138 W. Bishop St., Bellefonte PA 16823

**EMAIL:** TRAINING@PRWA.COM

EMAILING REGISTRATIONS: EMAIL IS INHERENTLY INSECURE. CREDIT CARD INFORMATION SHOULD NOT BE EMAILED OR SEND IN AN ATTACHMENT.

## Questions?

Call (800) 653-7792 ext. 107 or 108

**pa rural water**  
Association

138 West Bishop Street  
Bellefonte, PA 16823  
800-653-7792

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