

WATER LOSS MANAGEMENT TRAINING

FREE Training and Water Contact Hours!



Course Description

Nationwide, an estimated **six billion gallons of water per day** are taken from water resources and never reach the customer; this is enough to supply the drinking needs of the ten largest US cities. Many drinking water systems in Pennsylvania deliver water to customers through aging distribution systems; withdrawing, treating, and supplying water for which they **may not be fully receiving revenue**. To help water utilities address this growing issue, the PADEP: Safe Drinking Water Operator Outreach Program and the Delaware River Basin Commission are providing a free **three-part training series** on water loss management for water operators, water managers, water authority personnel, engineers, and water system board members.

DATES:

Tuesdays: March 3rd, March 17th, and March 31st, 2026

TIME (ALL SESSIONS):

8:30AM – 3:30PM

(registration begins at 8:00 AM)

LOCATION (ALL SESSIONS):

Bucks County Community College:
275 Swamp Road, Newtown, PA 18940

REGISTRATION LINK:

[Click here to register for select sessions!](#)

5.5 Water
Contact Hours
per Session!

Take 1, 2, or all
3 Sessions!



This training is provided by:
[Delaware River Basin Commission](#)
and the
PADEP: Drinking Water
[Operator Outreach Program](#).



INSTRUCTORS

(PADEP SAFE DRINKING WATER: OPERATOR OUTREACH PROVIDERS)

George Kunkel, P.E.: George has over 40 years of water industry experience and was formerly the water loss control program manager for the City of Philadelphia Water Department. He chaired the sub-committee that publishes the AWWA M36 guidance manual *Water Audits and Loss Control Programs* and is a co-author of the AWWA Free Water Audit Software.

Mary Roland: Mary has over 35 years of utility experience in water and wastewater systems of all sizes with Pennsylvania American Water in the Water Quality and Environmental Compliance Department. Mary is trained in the AWWA M36 methodology, has been a member of AWWA for over 25 years, and holds a Water License (A, E 1-14) and Wastewater License (A, E 1-4). For over 15 years, Mary has also been a member of both the State Board for Certification of Water and Wastewater System Operators and the Small Systems Technical Assistance Center Advisory Board.

PLEASE REGISTER EARLY! SPOTS ARE FIRST-COME, FIRST-SERVED. (REGISTRATION PREFERENCE WILL BE GIVEN TO STAFF OF WATER UTILITIES)

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SESSIONS & ADDITIONAL INFORMATION



SESSION 1: WATER AUDITING* (03/03/2026)

Hands-on Training in Water Auditing using the AWWA Free Water Audit Software (DEP ID# 7307)

- Learn about the basic components of non-revenue water, including leakage.
- Use the AWWA Free Water Audit Software to identify the nature and extent of water loss.
- Learn the value of the water audit for developing a cost-effective water loss control program.

* For Session 1, attendees should bring a laptop computer with the AWWA Free Water Audit Software downloaded. If you do not have a laptop, you will be able to share. The software can be downloaded from:

<https://www.awwa.org/toolbox/free-water-audit-software/>

SESSION 2: METERING AND BILLING (03/17/2026)

Controlling Water Utility Apparent Losses in Customer Metering and Billing Operations (DEP ID# 7328)

- Learn the importance of metering and billing operations for your water loss control program.
- Learn ways to estimate apparent losses and recover lost revenue through accurate metering and billing.

SESSION 3: LEAKAGE MANAGEMENT (03/31/2026)

Fundamentals of Leakage and Pressure Management for Water Utilities (DEP ID# 7374)

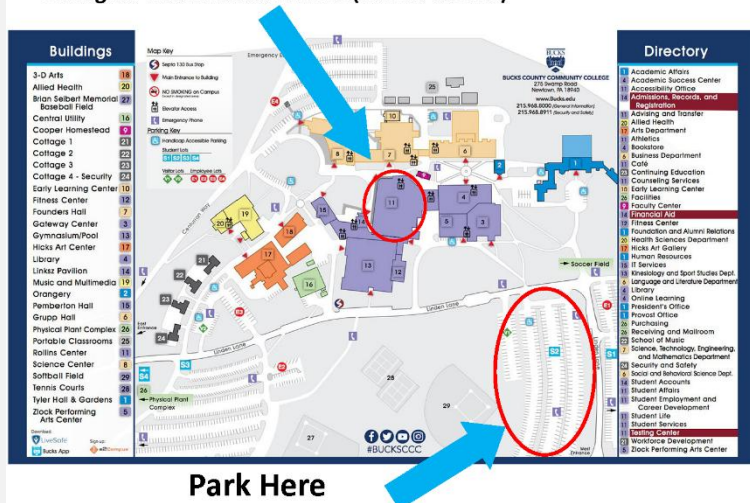
- Learn tools you can use to analyze system leakage.
- Learn the importance of system pressure in leakage reduction.
- Learn how to systematically reduce water loss through leakage reduction and pressure management.

ADDITIONAL INFORMATION

Note: These are stand-alone workshops, so you may attend one, two, or all three days. However, if you have not conducted a water audit at your utility, we highly recommend attending Session 1 before 2 and/or 3.

Fee: No charge! Facilities and on-site parking at the venue. Training provided by DEP Operator Outreach.

Gallagher Room Located Here (Rollins Center)



Lunch: There will be a firm 60-minute lunch break. Class will resume one hour after the break to ensure that the course ends on time and that all participants can leave as scheduled. There are dining options available on campus, numerous restaurants nearby, and space available to eat on-site if attendees wish to pack or bring their lunch back to the venue.

Parking and Access:

There is plenty of room for all attendees to park on site: 275 Swamp Road, Newtown, PA 18940. [Please park in either Lot V1 or Lot S2 as shown on this map.](#) Once parked, attendees can enter the campus and proceed to the Gallagher room.

If you have any questions or would like further information, please contact Brad Baker, PADEP Operator Outreach Provider via email: Outreach@pa.gov or phone: (717) 772-4044.