



Water & Wastewater Professional Growth  
Course Catalog  
April - June 2018



Please post this in view of your operator(s).

# 2018 2nd Quarter Training Classes

## Advanced Electrical Controls

Advanced Electrical is a follow up to the Basic Electrical class. Topics will include the Alphabet Soup of Electrical Acronyms. Included are PLC, RTU, SCADA, DCS, VFD and more! This class is for those wanting to better understand these topics and how they apply to the Water and Wastewater field by using Training Aids and Troubleshooting tips. Please note- The Basic Electrical class is not a prerequisite for this class.

*Taught by Ernie Klimek*

0.6 Water / WW CEUs  
\$160 ERWoW Members  
\$185 Non-Members

Class Time: 8:30am - 4:30pm

### Dates & Locations:

April 24, 2018                      Spokane  
May 9, 2018                         Olympia

[View website for additional dates & locations](#)

## Asset Inventory A-Z Best Practices

Building an Asset Inventory A-Z is a short introductory class designed to help Water and Wastewater Utilities understand the needs and functions of an Asset Inventory, how to get started, and how it can be used for emergency planning and its role as the first step of an Asset Management Program.

*Taught by Ernie Klimek*

0.4 Water / WW CEUs (pending approval)

\$100 ERWoW Members  
\$125 Non-Members

Class Time: 8:30am - 12:45pm

### Dates & Locations:

April 26, 2018                      Anacortes  
May 15, 2018                        Chehalis  
June 5, 2018                         Connell

[View website for additional dates & locations](#)

## Basic Electrical for Water & Wastewater

This training will give system operators a basic understanding of the theory of electricity and assist them in troubleshooting their system when a problem occurs to keep downtime to a minimum.

*Taught by Ernie Klimek*

0.6 Water / WW CEUs

\$160 ERWoW Members  
\$185 Non-Members

Class Time: 8:30am - 4:00pm

### Dates & Locations:

April 4, 2018                         Shelton

[View website for additional dates & locations](#)

## Basic Electrical Troubleshooting

Participants in this course will learn how electricity is produced and distributed, and how to apply fundamental electrical, AC and DC theory to the operation of water and wastewater facility operations and control systems. The students will learn procedures for troubleshooting electrical systems and electrical components using meters and equipment normally used by technicians for maintaining plant equipment.

*Taught by Lynn Stuart*

0.7 Water / WW CEUs

\$160 ERWoW Members  
\$185 Non-Members

Class Time: 8:00am - 4:30pm

### Dates & Locations:

June 21, 2018                        Port Angeles

[View website for additional dates & locations](#)

## BAT Recertification (1 day)

This class is a hands on and workbook study session. Attendees will be allowed to practice the hands on portion of the review in our BAT lab, as well as practice tests for the written part of the exam. This class is intended for those looking to recertify as a BAT. You must already be a certified BAT to attend the class.

*Taught by Backflow Management Inc*

0.7 Water Only CEUs

\$160 ERWoW Members  
\$185 Non-Members

Class Time: 8:00am - 4:30pm

### Dates & Locations:

April 18, 2018                        Shelton  
May 3, 2018                            Shelton

[View website for additional dates & locations](#)

## BAT Professional Growth 2-Day Refresher

This class is intended to provide the attendee with an overview/refresher of proper test procedures prior to taking the Professional Growth Exam. Operators who test, inspect and diagnose problems in accordance with Washington State Regulations will use this training to review and refresh their skills.

*Taught by Backflow Management Inc*

1.5 Water Only CEUs

\$250 ERWoW Members  
\$275 Non-Members

Class Time: 8:00am - 4:30pm each day

### Dates & Locations:

June 19-20, 2018                      Shelton

[View website for additional dates & locations](#)

## CEU Round Up

This will be a 1 day course with two sessions. The morning session will be on "Emergency Response Planning" and the afternoon session will be the "Elements of Your Cross Connection Control Program" Each class is 0.3 CEUs. Attending both sessions will give you 0.6 CEUs.

0.3 - 0.6 Water Only CEUs

One Session: \$75 Members / \$100 Non Members  
Both Sessions: \$160 Members / \$185 Non Members

Class Time: 9:00am - 12:00pm

Class Time: 1:00pm - 4:00pm

### Dates & Locations:

April 11, 2018                         Bellingham  
April 12, 2018                         Moses Lake

## Chlorine Pumping Systems - Design & Maintenance of Chlorine Pumping

This class centers around design and redesign of pumping systems that are failing or performing poorly. Once people have been through this course they can recognize and resolve chlorine pumping problems quickly and with local service and support.

*Taught by Furrow Pump*

0.3 Water Only CEUs (pending approval)

\$75 ERWoW Members  
\$100 Non-Members

Class Time: 9:00am - 12:00pm

### Dates & Locations:

April 10, 2018                         College Place  
May 3, 2018                             Renton

[View website for additional dates & locations](#)

## Confined Space Entry, Requirements & Regulations

There are many confined spaces in a water system, including vaults and storage tanks. Proper safety procedures ensure that water system personnel are not exposed to unnecessary risks when performing maintenance in these spaces. After attending this class, operators will be able to ensure proper safety procedures are being followed.

*Taught by Backflow Management Inc*

0.5 Water / WW CEUs

\$135 ERWoW Members  
\$160 Non-Members

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

### Dates & Locations:

April 11, 2018                         Wenatchee  
May 22, 2018                         Arlington  
June 6, 2018                            Renton

[View website for additional dates & locations](#)

## Corrosion Control and Flushing: What's In Your Pipes?

This presentation provides operators with basic knowledge to help them maintain the Water Distribution Systems. During this class, we will also discuss pipeline locating and leak detection.

Operators can take the information learned from the class to improve their corrosion control and mainline flushing programs.

*Taught by USA Bluebook*

0.7 Water Only CEUs (pending approval)

\$160 ERWoW Members  
\$185 Non-Members

Class Time: 8:00am - 4:30pm

### Dates & Locations:

May 10, 2018                         Spokane  
June 14, 2018                         Federal Way

[View website for additional dates & locations](#)

## Cross Connection Control Certification Exam Review (2 days)

At this 2-day course, we will review the information needed to prepare the attendee for the CCS Exam. We will discuss how cross connections affect public health, the potential risks and liabilities, how to conduct surveys and carry out enforcement actions, the two types of hydraulic conditions which cause backflow, and backflow prevention assemblies and their applications.

*Taught by Backflow Management Inc*

1.4 Water Only CEUs

\$250 ERWoW Members  
\$275 Non-Members

Class Time: 8:00am - 4:30pm each day

### Dates & Locations:

May 1-2, 2018                         Moses Lake

[View website for additional dates & locations](#)

***Cancellation Policy: Cancellations received less than one week before the training class will receive an 80% refund. Cancellations made a week or more before the class will receive a full refund. No shows will be billed. Substitutions are welcome.***

# 2018 2nd Quarter Training Classes

## Cross Connection Control for Drinking Water, Wastewater & Reclaimed Water

This four hour class will provide an overview of Drinking Water Regulations relative to cross connection control and specific requirements for wastewater facilities and reclaimed water distribution. We will also discuss the requirements of the plumbing code.

*Taught by Backflow Management Inc*

0.4 Water /WW CEUs (pending approval)

\$100 ERWoW Members

\$125 Non-Members

Class Time: 8:30am - 12:45pm

*Dates & Locations:*

April 12, 2018

Federal Way

*View website for additional dates & locations*



## Determining the Right Automated Reading System For You

Many utilities have moved to a mobile or fixed network meter reading technology. Mobile and Fixed Network meter reading reduces reading time, freeing-up man power for tasks related to water quality, water supply and public health protection. Additionally, there are new Advanced Metering Analytics (AMA) providing the utility with email/text notification of customized water flow exceptions, such as reverse flows and the availability of web-based/smart phone application communication with end customers. This presentation explains the technology differences, introduces new technology, and discusses considerations for making the right technology decision for your utility.

*Taught by Badger Meter*

0.5 Water Only CEUs (pending approval)

\$135 ERWoW Members

\$160 Non-Members

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

*Dates & Locations:*

April 12, 2018

Spokane

May 17, 2018

Renton

*View website for additional dates & locations*



## GIS and IT in Public Works

Understanding, planning, and implementing technologies in the right way at the right time is key to success. We will discuss benefits, ROI, and case studies - how other local government entities are already using these technologies to streamline their business successfully, and manage resources for most efficient and best use. We will share local government success stories, and most importantly lessons learned that will help you. We encourage extensive interactions during the session and expose you to the tools and knowledge base to develop your organization's game plan.

*Taught by Aakavs Consulting*

0.6 Water Only CEUs

\$160 ERWoW Members

\$185 Non-Members

Class Time: 8:30am - 4:00pm

*Dates & Locations:*

April 11, 2018

Kenmore

May 23, 2018

Omak

*View website for additional dates & locations*



## Maintenance Management vs. Asset Management in Public Works

The use of Asset Management will assist all operators in their day to day tasks and allow them to track their work, inventory, assets and work orders. The Department of Health does award bonus points on their construction loan application if the water system has an asset inventory or has attended an asset management training. Attend this class to learn more.

*Taught by Aakavs Consulting*

0.6 Water CEUs / 0.7 Wastewater CEUs

\$160 ERWoW Members

\$185 Non-Members

Class Time: 8:30am - 4:30pm

*Dates & Locations:*

April 10 2018

Kenmore

May 1, 2018

Vancouver

May 22, 2018

Omak

*View website for additional dates & locations*



## RTCR Assessments - Hands On

The Revised Total Coliform Rule is a requirement of the SDWA. We will look at what a system needs to do to stay in compliance.

*Taught by Backflow Management Inc*

0.6 Water / WW Only CEUs (pending approval)

\$160 ERWoW Members

\$185 Non-Members

Class Time: 8:30am - 4:00pm

*Dates & Locations:*

April 11, 2018

Toppenish

April 17, 2018

Napavine

May 23, 2018

Gig Harbor

*View website for additional dates & locations*



## Rules & Regulations

We will provide an overview of the current rules and regulations which will include a check list and flow chart for regulations. We will review and discuss Department of Health's fact sheets when available.

*Taught by Backflow Management Inc*

0.6 Water Only CEUs

\$160 ERWoW Members

\$185 Non-Members

Class Time: 8:30am - 4:00pm

*Dates & Locations:*

May 2, 2018

Vancouver

*View website for additional dates & locations*



## Standard Operating Procedures

To ensure the quality of water delivered to water system customers and the protection of the water bodies receiving treated Sewer Utility System effluent, it is important for utilities of all sizes to have Standard Operating Procedures. Learn the importance of SOPs and how they provide long-term protection of a utilities water and sewer infrastructure.

*Taught by Lynn Stuart*

0.4 Water / WW CEUs

\$100 ERWoW Members

\$125 Non-Members

Class Time: 8:30am - 12:45pm

*Dates & Locations:*

April 5, 2018

Kenmore

*View website for additional dates & locations*



## Vertical Turbine Pumps

Check the website for more information on this new class.

*Taught by Jim Joyce with PumpTech*

0.3 Water / WW CEUs (pending approval)

\$75 ERWoW Members

\$100 Non-Members

Class Time: 9:00am - 12:00pm

*Dates & Locations:*

June 7, 2018

Port Angeles

*View website for additional dates & locations*



## WAC- Operators Checklist (2 days)

This 2 day class looks at the WAC & how it is applied to the day to day operation of a water system.

*Taught by Backflow Management Inc*

1.4 Water Only CEUs (pending approval)

\$250 ERWoW Members

\$275 Non-Members

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

*Dates & Locations:*

May 15-16, 2018

Kenmore

June 19-20, 2018

Wenatchee

*View website for additional dates & locations*



## Water Quality Monitoring

Water Quality Sampling is a great class for veteran and beginning operators to review sampling regulations and practices. Sampling covered Bacterial, Organics, Inorganics, Lead & Copper, TTHM & HAA5's and radionuclides.

*Taught by USA Bluebook*

0.6 Water Only CEUs

\$160 ERWoW Members

\$185 Non-Members

Class Time: 8:30am - 4:00pm

*Dates & Locations:*

May 8, 2018

Yakima

June 12, 2018

Freeland

*View website for additional dates & locations*



## Components of a Small Public Water System (2 days)

This 2 day workshop is intended for those just entering the public water system industry or for those who may be working in only on part of a larger system. This training will provide an introduction to the various components of a water system, and the importance each component plays in the production and delivery of safe drinking water.

*Taught by Dan Sander*

1.5 Water Only CEUs

\$250 ERWoW Members

\$275 Non-Members

Class Time: 8:00am - 4:30pm each day

*Dates & Locations:*

May 30-May 31, 2018

Olympia

*View website for additional dates & locations*

# 2018 2nd Quarter Exam Reviews

## Utility Management Certification (3 days)

The UMC will prepare you to take the next step in your career. The review is 3 days. The first class will cover financial sustainability - accounting, financial reporting, budgeting and asset management. The next class will cover technical sustainability - laws & regulations, source water protection, water contaminate reporting, water conservation, wastewater permits & licensing, point and non-point source contamination and collection systems. The final class will cover managerial sustainability - human resource management, emergency preparedness, public relations & public policy, the governing body and ethics.

*Taught by Mary Howell with Backflow Management Inc*

1.8 Water/WW CEUs \*Must attend all three days for CEUs

\$275 ERWoW Members

\$325 Non-Members

An additional \$125 for the UMC test \*Optional. Please email [kfenton@erwow.org](mailto:kfenton@erwow.org) for application

Class Time: 8:30am - 4:00pm each day

### *Dates in Shelton:*

April 19, 2018 (Financial Sustainability)

May 24, 2018 (Technical Sustainability)

June 13, 2018 (Managerial Sustainability)

\*\*By signing up for April 19, you will automatically be signed up for May 24 and June 13.

*View website for additional dates & locations*

---

## Wastewater Exam Review (2 days)

This is a 2-day course for applicants preparing for the Wastewater Exam. This course will provide a review of the major need to know topics included in the Associated Boards of Certification exam criteria specifically for Levels OIT, 1 and 2. Study notes and practice exam questions are included.

*Taught by Doug Miller*

1.4 Wastewater Only CEUs

\$250 ERWoW Members

\$275 Non-Members

Class Time: 8:00am - 4:30pm each day

### *Dates & Locations:*

May 15-16, 2018 Vancouver

June 13-14, 2018 Shelton

*View website for additional dates & locations*

---

## Water Distribution Manager Exam Review (3 days)

Attend this 3-day course and learn how to prepare for the I and II Water Distribution Manager Exam. This class includes an extensive math and water chemistry review, review of disinfection rules and procedures, review of basic well construction, including well development; along with the review of water utility management, operation and maintenance principles. Several practice tests will be given and reviewed in class.

*Taught by Backflow Management Inc*

2.2 Water Only CEUs

\$300 ERWoW Members

\$350 Non-Members

Class Time: 8:00am - 4:30pm each day

### *Dates & Locations:*

April 24-26, 2018 Arlington

May 15-17, 2018 Tri Cities

*View website for additional dates & locations*

---

## Water Treatment Plant Operator Certification Exam Review (3 days)

This is a 3-day course for applicants preparing for the Water Treatment Plant Operator or Basic Treatment Plant Operator Certification Exam. The review includes an in-depth review on math for the treatment plant operator, water sources and treatment coagulation and flocculation, corrosion control, and overview of plant operation and treatment, softening systems and laboratory procedures.

*Taught by Backflow Management Inc*

2.1 Water Only CEUs

\$300 ERWoW Members

\$350 Non-Members

Class Time: 8:00am - 4:30pm each day

**You can now log in to your account to see your past classes with ERWoW**

**All training classes attended can now be viewed on our website! Follow these instructions:**

- If you have signed up for training classes using your email and password, you would use the same information to log in to our website. If not, you will need to create an account.
- Go to the “person” tab at the top right and click “log In”. This will bring up the log in page. Either enter the same email and password you have created to sign up for training or create an account.
- After you have been verified, hover over the Membership link at the top and click on “Update My Profile”. This will take you to the Profile Manager.
- Hover over the link at the top “History” and click on “Activity History”. If you run into any problems please email us at [info@erwow.org](mailto:info@erwow.org) and we will try our best to help you!

Remember to view your Professional Growth report. To view your professional growth report go to:

<http://grcc.greenriver.edu/wacertservices/wwo/professionalgrowthreport.asp> and follow the instructions.



**WE WANT YOU!**

## **Open Board Positions**

ERWoW is looking for board members who work for a system in the **East Central Region** (Grant and Kittitas counties) and the **North West Region** (Island, San Juan, Skagit and Whatcom counties)

If you are interested in being on our Board of Directors please email Tracey Hunter at [thunter@erwow.org](mailto:thunter@erwow.org) for a board application.



# Water & Wastewater Professional Growth

## Course Catalog

April - June 2018



Evergreen Rural Water of WA  
PO Box 2300  
Shelton, WA 98584  
www.erwow.org

Register online at [www.erwow.org/training/calendar.aspx](http://www.erwow.org/training/calendar.aspx) or call us at 360.462.9287!