

<b>MONDAY</b>		<b>DECEMBER 9, 2024</b>	
08:45 AM – 12:00 PM	<b>Emerging Contaminants PFOS</b> The class will supply an overview of sources and treatment options as well as current trends in regulations. <ul style="list-style-type: none"> <li>• <b>08:45 – 10:15</b> Sources of and types of contaminants, levels of concern</li> <li>• <b>10:15 – 10:30 Break</b></li> <li>• <b>10:30 – 12:00</b> Treatment options that may be best suited for your utility</li> </ul> <b>Monty Norris, OAWU</b>	<b>W/WW</b>	
09:00AM - 04:00PM	<b>Small Water System Training Course</b> This one-day course will cover the basics of water system operation including waterborne pathogens, water treatment, water sampling, and maintenance. In addition, a review of the Safe Drinking Water Act Amendments, the State Revolving Loan Fund, as well as water system security issues. Review of technical, managerial, and financial needs of a small system. <b>Tim Tice, Scott Berry, OAWU</b>	<b>W</b>	
<b>TUESDAY</b>		<b>0.675 CEU TOTAL</b>	<b>DECEMBER 10, 2024</b>
Time			
07:45 – 08:00 AM	Registration and Introduction		
08:00 – 10:00 AM	0.2	<b>How to Start and Fund Asset Management from Scratch</b> Good asset management enables you to get the most from your assets, understanding how to do it right is the key. This is easier to achieve than you might think, and your citizens will appreciate the ramifications - better service, rates, and responsive govt. This is an immersive session that will discuss the basics and go beyond to equip you with the knowledge and a real time data driven approach to implement or enhance asset management programs for your utilities. <b>Arnab Bhowmick, AAKAVS AKTIVOVW</b>	<b>W/WW</b>
10:00 – 10:15 AM	<b>Break</b>		
10:15 – 12:00 PM	0.175	<b>The Show Must Go On: Business Continuity, Succession Planning, and Emergency Response</b> Local Govt. operations do not stop even in a pandemic or during natural calamities, emergencies, disruptions, and staff turnovers. There are established rules about the upkeep of the operations during any major events, crisis situations, and loss of critical human resources. This class covers normal disruptive events, deals with bigger showstoppers, and helps strategize dealing with workforce turnover. We will discuss business continuity, emergency response, and succession planning concepts and tools. <b>Arnab Bhowmick, AAKAVS AKTIVOVW</b>	<b>W/WW</b>
12:00 – 01:00 PM	<b>Lunch Provided</b>		
01:00 – 02:00 PM	0.1	<b>NPSH and Cavitation in Centrifugal Pumps</b> This course will start with a brief description of centrifugal pumps, how they operate in contrast to other pumping technologies, and the characteristics of kinetic pumps that make NPSH and cavitation an issue. The widely misunderstood phenomenon of cavitation will be discussed, as well as some brief illustrations of the damage that can be caused because of cavitation. <b>Robert Smith, Treatment Equipment Co.</b>	<b>W/WW</b>
02:00 – 02:15 PM	<b>Break</b>		
02:15 – 03:15 PM	0.1	<b>Customer Service Through AMI for Water Systems</b> How to better serve your customers through utilizing AMI and other metering data sources to protect both your utilities water and wastewater infrastructure. Discussion on water meter applicability and the importance of data management to reduce unaccounted for water. <b>Spencer Cashwell, City of Bend</b>	<b>W</b>
03:15 – 03:30 PM	<b>Break</b>		
03:30 – 04:30 PM	0.1	<b>LCRR Update</b> 2025-2027 lead and copper rule improvements which detail out the requirements for annual inventory submissions, lead and copper sampling, school & day care sampling, customer communication, and lead service line replacement. <b>Liz Johns, 120Water</b>	<b>W</b>
		<b>Pressure Sewer Systems – Deceptively Simple, Engineered for Reliability</b> Pressure sewer systems have long been recognized as the desired solution for providing wastewater collection and conveyance for communities that have typically been hard to service. <b>Tim Owens, CEIPNW</b>	<b>WW</b>
<b>WEDNESDAY</b>		<b>0.675 CEU TOTAL</b>	<b>DECEMBER 11, 2024</b>
<b>WATER</b>		<b>WASTEWATER</b>	
08:00 – 9:00 AM	0.1	<b>Disinfection Alternatives</b> With the current regulatory environment and safety factors associated with using gases for water/wastewater treatment, this class will focus on alternatives to Chlorine gas and Sulfur Dioxide. <b>Matt Barrier, Northstar Chemical</b>	<b>W/WW</b>
		<b>Electronic Reporting for Water Quality Permits in Your DEQ Online</b> DEQ is transitioning to a new data management system, Your DEQ Online, for water quality permits. Permit holders who already report their discharge monitoring reports electronically will transition from	

			NetDMR to Your DEQ Online, and those who report on paper will start reporting electronically in Your DEQ Online. This course will demonstrate how to access and complete in Your DEQ Online, including special reporting circumstances, best practices for data entry, and how Your DEQ Online differs from NetDMR reporting <b>Martina Frey, Oregon DEQ</b> <b>WW</b>
9:00 – 9:15 AM		<b>Break</b>	
9:15 – 10:15 AM	0.1	<b>Fire Hydrant Basics</b> The ins and outs of today's fire hydrants. Operations and repairs. <b>Vaughn Barber, Kenndy/M&amp;H Valve</b> <b>W</b>	<b>Biosolids: The Ins and Outs of Your Solids Management</b> An overview of federal and state regulations, providing an inside view of how DEQ regulates wastewater solids. DEQ requirements in your Biosolids Management Plan and what is needed for site authorization. <b>Pat Heins, Oregon DEQ</b> <b>WW</b>
10:15 – 10:30 AM		<b>Break</b>	
10:30 – 11:45 AM	0.125	<b>Cascade Groundwater Alliance, Program Overview and Update</b> The Alliance of the City of Gresham and the Rockwood Water Peoples Utility District is engaged in the design and construction of a new ground water supply. Our course will provide some history, overview and updates on this 30MGD project. <b>Jeremy Hudson PE, Rockwood Water PUD; Brian Ginter PE, Consor Engineering; Jason Branstetter PE, City of Gresham</b> <b>W</b>	<b>Introduction to Water Quality Standards Variances in Oregon</b> An overview of federal and state variance requirements, an introduction to Oregon DEQ's process for applying for variances and considerations if a wastewater discharger thinks a variance is appropriate for its situation. <b>Aron Borok, Oregon DEQ</b> <b>WW</b>
11:45 – 1:00 PM		<b>Lunch Provided</b>	
01:00 – 02:00 PM	0.1	<b>Mastering Drinking Water System Documentation: From Monitoring Forms to O&amp;M Manuals</b> Provides guidance on completing and submitting monitoring forms/reports and will cover best practices for developing and updating O&M manuals, ERPs, and CCRs. <b>Nicole H. Alfafara, OHA-DWS</b> <b>W</b>	<b>Recycled Water and What You Can Do with It</b> An overview of how DEQ regulates recycled water. You will learn what options are available for your treated effluent, what DEQ requires in your Recycled Water Use Plan and what changes are afoot in Oregon's water reuse. <b>Pat Heins, Oregon DEQ</b> <b>WW</b>
02:00 – 02:15 PM		<b>Break</b>	
02:15 – 03:30 PM	0.125	<b>Water Rights 101 and Water Supply Resiliency</b> A basic overview of the Oregon Water Rights System along with a discussion of what other municipalities have done to secure their water supply in the long-term. <b>Kerri Cope, Tamera Smith, OWRD</b> <b>W</b>	<b>Wastewater Operator Certification</b> The application and certification process, tips to avoid mistakes, and information you need on DEQ's website. <b>Kimi Grzyb, Oregon DEQ</b> <b>WW</b>
03:30 – 03:45 PM		<b>Break</b>	
03:45 – 05:00 PM	0.125	<b>Pipe</b> Overview of the past, present, and future types of pipe and appropriate fittings used for the water and wastewater industry. <b>Jess Bergers, Ferguson Waterworks</b> <b>W/WW</b>	
<b>THURSDAY</b>		<b>0.65 CEU TOTAL</b>	<b>DECEMBER 12, 2024</b>
08:00 – 09:30 AM	0.15	<b>Hydraulic Control Valve Basics: Function and Application</b> Basic hydraulics, valve function, pilot system function, valve components, pressure reducing and relief valves, and troubleshooting of common water and wastewater valves. <b>Patrick Miller – Cimco-GC Systems</b> <b>W/WW</b>	
09:30 – 10:00 AM		<b>Break</b>	
10:00 – 12:00 PM	0.2	<b>Laboratory Work and Sampling</b> Best practices for drinking water and wastewater sampling, laboratory work, navigating compliance, and the importance of laboratory-client relationship. <b>Michelle Angland, Edge Analytical</b> <b>W/WW</b>	
12:00 – 01:00 PM		<b>Lunch on your own</b>	
01:00 – 02:30 PM	0.15	<b>Cybersecurity for Rural Water and Wastewater Systems</b>	

		Current threat landscape for US public water and wastewater systems. How cyber-attack scenarios vs critical infrastructure play out. A look at what attackers see. <b>Steve Menges, Alpha Guardian Network, LLC</b> <b>W/WW</b>
02:30 – 02:45 PM		<a href="#">Break</a>
02:45 – 04:15 PM	0.15	<b>Cybersecurity for Rural Water and Wastewater Systems</b> How small and larger public water and wastewater systems can defend themselves while also affordably addressing current and future government compliance. <b>Steve Menges, Alpha Guardian Network, LLC</b> <b>W/WW</b>
		<a href="#">Total CEUs Tues - Thur: 2.0 Water or Wastewater</a>