

2025 AWWA Southern Oregon Subsection Short School Course Descriptions

(W)– Water Certification 0.7 CEUs

(WW) – Wastewater Certification 0.4 CEUs

(B)– Both Water and Wastewater Certification 1.5 CEUs

(WCC) – Water/Cross Connection Control 0.6 CEUs

WATER

(W): Building a Spill Response Program Step by Step: Arlo Todd & Katie Baker, Medford Water Commission. Stakeholders determine need for spill response/protection program. Obtained series of grants for scoping, risk assessment, plan development, specialized training, and material acquisition. Each phase required partnership and planning to proceed. We will walk you through the steps we took to develop of Spill Response Program. 0.1 CEU

(W): AMI: Not just for Meter Reading: Robbie West, City of Klamath Falls Water Division. Covering progression of converting your water system meters from direct read to AMI. Also, all the other things you can do with AMI, such as usage alerts, water loss tracking, virtual meters, etc. 0.1 CEU

(W) Hydraulic Control Valve Basics: Function and Application: Patrick Miller, Cimco-GC Systems. This class will include the following: basic hydraulics, valve function, pilot system function, valve components, pressure reducing, pressure sustaining and pressure relief valves, troubleshooting of common valves. 0.1 CEU

(W) Benefits of Tank Mixing and Automated Residual Control in Potable Water Storage Tanks: Kevin Chapa, Big Wave Water Technologies Inc. This course will review what a submersible tank mixer is as well as review the benefits of how water quality can improve with tank mixing. In addition, we will cover our Chlorine Boosting System that 100% automates the disinfection process directly into tanks. 0.1 CEU

(W) Low Pressure Membrane Filtration Systems - Introduction and Operations: Timothy English, P. E., Carollo Engineers. Introduction to micro - and ultrafiltration membrane treatment technology. An overview of the treatment principals, typical modes of operation, calculations and data interpretation, operational guidelines, and troubleshooting tips for common problems.

(W) Eyes and Ears on Your Water System: Patrick Miller, Cimco-GC Systems. This Class will explain solutions for leak detection programs and pressure and flow monitoring that allow water operators to reduce their non-revenue water and prevent costly main breaks. 0.1 CEU

(W) Getting ready for the Microbial/Disinfection Byproducts Rule: Pierre Kwan, HDR. Microbes and disinfection byproducts in drinking water have been strictly regulated by EPA with the Stage 1 Disinfectants/Disinfection Byproducts Rule and then the later Stage 2 rule. By the end of this summer, EPA will release the newest iteration of these rules. This talk is about what new requirements could be issued.

WASTEWATER

(WW) DEQ Operator Certification Basics: Kimi Grzyb, DEQ. Content will cover how to get and stay certified, reciprocity, and opportunity for program feedback/questions. 0.1 CEU.

(WW) Get the F.R.O.G. Out: Dan Lawrence, RootX. The lesson covers the issue of F.R.O.G. (Fats, Roots, Oils & Grease) in wastewater Collection systems. "How to chemically treat roots, and how to treat F.O.G. (fats, oils, and grease) using both chemical and biological methods. 0.1 CEU

(WW) Alternative to Gravity Sewer – Pressure Sewer: Chris Bennett, Correct Equipment. The Industry Misunderstanding of Low-Pressure Sewer: Flow Study and Analysis of Gravity vs Low Pressure Collection Systems. 0.1 CEU

(WW) PFAS Treatment Options, Alternatives, and Considerations: Brian Murphy, CDM Smith. Discussion of PFAS treatment technology, scaling of treatment, alternatives to treatment and considerations in selecting a solution. Providing an introduction to PFAS in biosolids and regulatory requirements on the horizon. 0.1 CEU

BOTH: WATER/WASTEWATER

(B) Arc Flash studies and Safety: Tiana Michaud, West Yost. When and how are arc flash studies required, what are the NEC requirements, and what does an agency need to know. 0.1 CEU

(B) Distributed Energy Systems: Tiana Michaud, West Yost What is distributed energy versus conventional systems, where and how are they applicable in water and wastewater treatment systems.

(B) Water/Wastewater Treatment Chemistry 101: Chris Beebe, Beebe's Water Systems, Inc. The focus of this seminar will be on the basics of water treatment from a Chemistry perspective including a discussion of the important role of alkalinity for conditioning water for effective separation of solids. 0.1 CEU

(B) Locating 101: The Science Behind Using Tracer Wire to Locate Pipelines: Patrick Miller, Cimco-GC Systems. This course covers the science and application of locating wire systems for detecting and protecting underground pipelines. Attendees will learn installation, troubleshooting, and the importance of accurate locating for safety and damage prevention. 0.1 CEU

(B) Modernizing SCADA: Architecture and Strategic Planning for Utilities: Jeff Hesse, West Yost. Understanding the components of Supervisory Control and Data Acquisition (SCADA) system, how they work together, and the key considerations utilities must address when planning system improvements in 2025.

(B) Understanding Engineerz - Helping Operators communicate with Engineer(ish) types: Andy Huffman, Medford Water. This presentation will provide tools and understanding for operations staff. This will help staff communicate and understand Consultants, Engineers, and Designers. The goal is for operations staff to be more effective partners during projects and evaluations.

(B) On-Site Hypochlorite Generation: OSEC Systems: Bryce O'Neill, Xylem. Split time between On-Site Hypochlorite Generation systems as a safe alternative to Chlorine Gas and other forms of residual disinfection.

(B) Chemicals in Water and Wastewater Application: Jeff Zachman, Cascade Columbia Distribution Co. This

will be an overview of chemicals and their applications in potable water and wastewater. 0.1 CEU

(B) Operator Math: Caleb Trammell, Jacobs. This class will provide water and wastewater operators with the basic math skills to use the formulas required to pass the level I & II certification exams. The topics will include volume, velocity, flow, conversions, pounds, dosage, and other equations that operators will need to know. 0.4 CEU

(B) Designing for Reliability: Embedding O&M Wisdom Early: Gerald Fejarang, CDM Smith. The objective of this presentation is to communicate the basic principles of RCD, when to apply the process within the design stages, how to facilitate an RCD workshop, and utilize the Failure Mode Effects Analysis tool to document the findings. 0.1 CEU

(B) Ductile 101: Jacob Lovin, McWane Ductile. A comparative analysis of ductile iron pipe v alternative materials and incorporates the misconceptions and do's/don'ts of ductile iron pipe. 0.1 CEU

(B) Medford RWRP Plant Tour: Johnny Leavy, City of Medford. Provide a verbal overview of the condition assessment and planned facility expansion during a bus ride, plus A-a tour of a-the plant including TF/AS secondary treatment facilities, electrical, instrumentation, and controls with an emphasis on items that pertain to both water and wastewater operators. The RWRP provides wastewater treatment service to the cities of Medford, Central Point, Jacksonville, Talent, Phoenix, and Eagle Point as well as the areas served by Rogue Valley Sewer Services (RVSS). RVSS is responsible for the interceptor sewer system and for wastewater collection for the cities of Talent, Phoenix, Jacksonville, Central Point, Eagle Point, unincorporated areas, and the White City Sanitary District. The City of Medford is responsible for most of the collection system within its boundaries but contracts with RVSS for some smaller areas. 0.2 CEU

(B) Medford Water Duff Water Treatment Plant Tour: Matt Severloh, Medford Water. Tour the WTP while discussing the recently completed plant expansion include a new filter, and reservoir expansion, a and SCADA system upgrades. The tour will go over all major unit treatment processes and electrical, instrumentation, and control systems focusing on elements related to both water and wastewater operators. Additional discussion and have-time for question and answers if needed will follow on the bus tour back to RCC. 0.2 CEU

WATER/CROSS CONNECTION CONTROL

(WCC) Cross Connection Specialist Update Course: Garrett Yates and Ray Johnson, BMI. The course is intended to provide the currently certified cross connection control specialist with the information required for renewal of their Cross Connection Specialist certification from the State of Oregon, Oregon Health Authority, Cross Connection/Backflow Prevention Program. This course is also applicable to water distribution operators and water treatment operators to understand the hazards associated with cross connections to the public water supply and to meet Drinking Water Services Oregon Administrative rules for establishing and maintaining cross connection control programs within their water systems. 0.6 CEU