

# Collection Systems

(All Sessions are in Alphabetical Order)

## **Bloodborne Pathogens** (Jen Killpack, City of Bend)

This course will cover BBP and potential hazards and exposures while working with combination machines and tasks. We will discuss how to protect yourself, what is available to you as an employee and what to do if you are exposed.

## **Collection System Maintenance 101** (Jeff Farschon, City of Medford Public Works)

An open discussion on the challenges Sanitary Sewer Systems Operators faces today. Tips, tricks, and ideas on how to manage issues that operators see on a daily basis.

## **Decarbonizing the Flow: Carbon Management in Wastewater Collection and Resource Recovery**

(Terrance Romaine, Clackamas Water Environment Services)

Accelerating the transition from wastewater conveyance and treatment to resource recovery with net-zero goals through circular economy principles. Understanding the current carbon footprint to reduce emissions impacts through three key pillars: Energy Neutrality, Nutrient Recovery, and Greenhouse Gas (GHG) Mitigation.

## **Equipment ROADeo Competition** (Carl Ramseyer, Blake Dorning, Preston Langelier, Craig Brault, City of Newberg, BTI)

Individuals who attend the all-day equipment training have the opportunity to participate at the end of the day to compete in the Equipment ROADeo Competition. The ROADeo will challenge the students to practice the skills they learned throughout the day to operate backhoes, loaders, excavators, graders, and skid steers safely and efficiently, all the equipment most used for public works stormwater or sanitary sewer utility repair and maintenance. This also provides a learning opportunity for all participants as they can observe how others operate. Individuals will learn new, safer, and more efficient ways to operate the equipment through peer-to-peer observation.

## **Gas Detectors** (Greg McDonald, Ritz Safety, LLC)

Session will cover all aspects of portable gas detection. Diffusion vs. pumped instruments, requirements on bump tests & calibrations, field use, conducting pre-atmospheric tests, sensor response times, checking & clearing peaks, maintenance, sensor warranties, and what to do with expired test gas cylinders.

## **Hearing Conservation for Combination Equipment** (Jen Killpack, City of Bend)

Learn the importance of hearing protection and how to protect yourself while working around combination sewer cleaning equipment or using a Jack hammer, concrete saw or a backhoe equipment during sanitary sewer pipe repair.

## **Investigating Slug Discharges: Why, Where, and How?** (Chris Desiderati, Clackamas Water Environment Services)

This session will cover the basics of preparing for, identifying, and responding to slug discharges in sanitary sewer collection systems. Slug discharges from commercial and industrial sources can negatively impact public infrastructure and threaten worker safety. Understanding the potential sources and these impacts can support protecting worker health, infrastructure investments, and the long-term reliability of public sewerage systems.

## **Live Equipment Training** (Carl Ramseyer, Preston Langelier, Blake Dorning, Craig Brault, City of Newberg, BTI)

Participants will train alongside expert instructors to enhance their knowledge and skills on heavy equipment such as backhoes, graders, and excavators. This hands-on field training includes detailed machine walkarounds, operating techniques, and a strong emphasis on safety and efficiency. The program focuses on equipment commonly used for public works, as well as stormwater and sanitary sewer utility repair and maintenance.

## **Manhole rehab** (Courtney Rawson & Chris Siegrist, Molecular Inc)

Manhole rehab through injection grout, cementitious, and coatings.

## **Nozzles 101** (Chris Young, SWS Equipment)

Join this session as we cover sanitary sewer or stormwater pipe cleaning basics and safety. Students will learn the basic nozzle construction and jets and how to select the proper nozzle for the application.

## **Personal Protective Equipment (PPE)** (Greg McDonald, Ritz Safety, LLC)

Session will focus on use, application, and requirements of head-to-toe PPE in the workplace.

## **PLC control Basics for pump stations** (Patrick Clasen, Water Environment Services, Clackamas County)

An overview of PLC functions in pump station control schemes. basic understandings of PLC function to assist in troubleshooting in the field. what is a PLC and what is it doing or not doing.

## **Pre-trip inspection and load securement** (AJ Collins, Jackson County Roads)

As operators maintaining sanitary sewer systems, we need to be able to respond safely while transporting our equipment. In this session, we will review essential, mandatory processes for drivers to check their truck and trailer daily before driving, ensuring the equipment is in good operating condition and the load is properly secured in accordance with FMCSA rules.

**Safe Hydro-Excavator Operation Practices** (Chris Young, SWS Equipment)

This course will prepare attendees to perform hydro-excavations properly and safely. Operators will learn how to dig properly around sanitary sewer and stormwater utilities with proper digging wand techniques and pressure control. Additional discussions will revolve around vacuum safety, personal protective equipment, overhead safety, fall protection, and emergency preparedness. This session will also emphasize OSHA requirements for trench safety and confined space entry requirements.

**Discussing Dri Prime Pumps and Flyght Dewatering Pumps for Municipal Sewer Applications** (Mitch Larson, Xylem)

Discuss when and what type of pumping is applicable for certain applications.

**Sewer Design and Stormwater Facility Infrastructure Purpose and Options** (Alena Beltz, City of Medford)

For maintenance of sanitary sewer and storm drain collection facilities, it is beneficial to understand how sewer systems are designed and how stormwater facilities are chosen. This session will review stormwater facility options, the reasons for using certain types of facilities, reasons why a facility may be located where it is and its purpose. Information covered will include a review of stormwater facility types, how they function, and new and changing requirements for water quality treatment.

**SSO** (James Vitko & Jamie Hughes, Clean Water Services)

Training on sewer overflow and responds training.

**Traffic Control for Sanitary Sewer Operations** (Tim Zacha, City of Medford Public Works)

Traffic Control for Sanitary Sewer Maintenance Operations. We will discuss proper traffic control as outlined in the MUTCD and the Oregon Orange Book. We will have a couple of workshops where we will design and evaluate Traffic Control Plans.