

ROADeo Competition

City of Bend

Equipment ROADeo is a timed competition event for street maintenance and collection systems operators who use heavy equipment to excavate street repairs or excavate to depths for pipe repair on collection systems. The ROADeo course is designed to replicate normal working conditions with obstacles to simulate everyday working conditions around tree roots, utilities and sanitary sewer and stormwater pipe systems. Operators will be able to demonstrate their skills through safety awareness, equipment knowledge and equipment usage. Hard Hat and Vest are required to compete.

OR-OSHA and How They Can Help Make Your Workplace Safer

Larry Fipps | OR-OSHA

The presentation will be an overview of OR-OSHA services and how they can be used to improve the safety of your workplace. There will be photos of what OR-OSHA looks for when they visit water treatment plants and the types of hazards they find. There will be time for questions on issues the attendees are facing and how to access OR-OSHA consultation.

COLLECTION SYSTEMS | TRACK 1

Infiltration and Inflow-Manhole Inspection

Treating I&I is expensive. We will look at some of the sources of I&I, and the cost of treating. Manhole inspection, the forgotten part of the sewer system, will also be discussed. [Jim Brown | True North Equipment](#)

Phased Assessment Strategy for Sewers (PASS)

PASS is a plan for understanding sewer system condition quicker, with fewer resources. With today's tight budgets, diminishing labor, and equipment costs, it's getting harder to meet mandates. This class suggests a workflow, equipment used, and results based on the experience of agencies that have adopted the plan.

[Jim Brown | True North Equipment](#)

The Science of Pipe Cleaning

This class will help students understand the relationship between flow and pressure and how they affect the sanitary sewer and storm water maintenance task. We will learn the main cause of "Blowing Toilets" and what can be done to mitigate this event. New cleaning methods will be discussed with an eye to improve productivity and reduce costs.

[Ken Billingham | Keg Gmbh](#)

Preparedness Culture

Does your current water and sanitary systems job provide a culture for obtaining and then sustaining preparedness for natural and human caused emergencies? Be a part of this class, so you can determine how comfortable you should be when you get back home. [Les Miller | Square Knot Preparedness Education and Coaching](#)

What Will Make Your Response More Successful?

This is a student participation class. It will help both Street Maintenance and Collection Systems students understand what their participation in Emergency Response Preparedness will determine their success in meeting expectations of them. [Les Miller | Square Knot Preparedness Education and Coaching](#)

Hazard Identification in the Workplace

Learn how to identify common hazards around sewer plants, water plants, street work, parks, line maintenance and operations, municipal and county garages. Compliance issues relative to quarterly safety inspections. WE will also go over documentation requirements, working with safety committees, making recommendations to alleviate, reduce or eliminate hazards. [John Zakariassen | Private Consultant---Retired](#)

Sewer Root Control or Chemical Root Control

“Pipeline root intrusion is the single most destructive element involved in maintaining a wastewater collection system.”

—U.S. Environmental Protection Agency

This class will cover sewer root control starting with how roots grow in pipes and root intrusion variables. We will cover pipe materials and how roots can affect those materials, root control methods, root control chemicals and finally we will go over some faq’s on sewer root control. [Dan Lawrence](#) | [Gelco Supply Inc. d.b.a. RootX Inc.](#)

Combination Trucks- Sewer and Storm Water

This session will be a general discussion of combination trucks and their equipment in regards to sewer and storm water applications. We will go over types of trucks, styles, uses, history and best practices, how they squirt, suck, contain and transport. [Shawn Patrick](#) | [Owen Equipment Co.](#)

Nozzle Applications for Sewer & Storm Water

This presentation covers the different types of nozzles and each specific application. Various nozzles will be displayed for participants to examine. Video examples will show streaming angles and basic operations. Power Point will provide various slides of nozzles and time for Q&A at the end. [Daryl Doran](#) | [ENZ Nozzles](#)

Driven to Distraction--Safe Driver

We will cover basic and advanced information relative to common distractions leading to accidents and sometimes fatalities. Understanding limitations of your vehicle, roadways, and weather conditions are a vital part of many jobs in public works. We will discuss training requirements, policies, and inspections of vehicles.

[John Zakariassen](#) | [Private Consultant---Retired](#)

Risk Management Techniques in Sewer Backups, Maintenance and Emergency Response

The session is designed to provide basic information relative to understanding sewer systems and plants, maintaining such systems, and appropriate responses to emergencies. We will go over the importance of written policies and documentation needs, training, inspections, and assessments of personnel and equipment. Safety concerns and compliance with OR-OSHA. [John Zakariassen](#) | [Private Consultant---Retired](#)

Roadside Emergencies & Hazard Awareness

Public Workers are on the roads and in neighborhoods all day. It’s just a matter of time before you could be first on scene with a hazard, accident, or situation. Will you know what to do in this situation? This session will cover the awareness of the many unexpected hazards you could come across while working on or near our roadways; motor vehicle crashes, haz-mat spills, suspicious persons, crime scenes, etc.

[Dustin Ross](#) | [Oregon Department of Transportation](#)

Road Rage

In today's society, small driving mistakes can cause a road rage reaction in a driver around you. When someone is triggered, resulting in an angry, aggressive driver, the problem can quickly get out of control and become a dangerous problem. However, what we will explore are some simple things a motorist can do to de-escalate a situation if they become a target of road rage. [Sheriff Shane Nelson](#) | [Deschutes County Sheriff](#)

COLLECTION SYSTEMS | TRACK 2

Combination Equipment Operator Sewer

This class will be a discussion for operators, operator-in-training and assistants of hydro jet rodder or combination vacuum and hydro jet rodder vehicles on sanitary sewer maintenance of a collections system. We will cover planning, resources, field operation, and the challenges operators encounter through these phases.

[Lloyd "Fuji" Ngariki](#) | [City of Eugene](#)

Mitigate Roots in Collection Systems

This class will cover root blockages and causes in collection systems; root removal tools, tool selection and application. We will watch a video on large diameter root cuts and discuss root removal options and maintenance challenges.

[Lloyd "Fuji" Ngariki](#) | [City of Eugene](#)

Vactor Operation and Maintenance

A Vactor combination truck is used in the maintenance of a sanitary sewer and stormwater system. Attendees will acquire knowledge, both practical and theoretical, concerning the safe operation, basic maintenance and troubleshooting of various aspects of the Vactor 2100i, 2100 Plus or the Classic Series Fan and PD units. Topics covered will include various nozzles and their usage, water pump, boom functions, vacuum systems, and maintenance and inspections. [Greg Read](#) | [Owen Equipment](#)

CIPP Rehabilitation in Wastewater Systems

This presentation will focus on the use of Cured-In-Place pipe (CIPP) trenchless rehabilitation techniques for wastewater systems. This will include covering the current state of art in the industry, as well as diving into basic design philosophy. In addition, provide some examples of uses of the CIPP system in small and large diameter water/wastewater systems. [Amber Wagner](#) | [Insituform Technologies](#)

Shoring and Excavation Safety in Waste Water

This is a must-attend course for all employees working in sanitary sewer and waste water systems. This class will cover proper shoring procedures and regulations in excavation specifically related to waste water services.

[Dylan O'Connell](#) | [D.P. Nicoli](#)

Odor & Corrosion Control for Wastewater Systems

You may have noticed some bad odors or corrosion issues coming from a manhole, wet well or treatment plant. These issues are very commonplace in wastewater systems. Odor & Corrosion Control Basics will cover both liquid phase and vapor phase technologies commonly used in the wastewater industry to help mitigate odor and corrosion in your wastewater system. Clint has 34 years of industry experience in servicing odor & corrosion control systems.

[Clint Vander Kooi](#) | [Evoqua Water Technologies](#)

Hazard Communication

Hazard Communication is one of OSHA's most frequently cited standards. Students will learn why this standard is critical to understanding hazards associated with chemicals, why SDSs and container labeling are important as well as routine hazards in the workplace. [Eric Fullan](#) | [Carollo Engineers](#)

Top 10 Safety Hazards

This session will cover the common safety hazards that are common in the water / wastewater utilities and prevention efforts employers can take to minimize those hazards. [Eric Fullan](#) | [Carollo Engineers](#)

STREET MAINTENANCE | TRACK 3

Hearing Protection

This class covers basic hearing protection techniques and tools that you can take back to work and home.

[Mike Eastman](#) | [Oregon T2 Center](#)

Highway Safety Features

This session will aid in road safety information for the best safety and maintenance practices in Oregon to people who work with local roads and streets. We will review common road hazards in Oregon, along with practical ways to improve road safety. [Mojie Takallou, Ph.D., P.E.](#) | [University of Portland](#)

Using Herbicides to Manage Roadside Vegetation

The presentation will begin with a description of why DOT's manage roadside vegetation that includes safety, structure preservation, noxious weed control and aesthetics. Following that will be a discussion on the principles of Integrated vegetation management that includes pest identification, prevention measures, setting management thresholds and control methods. The final topic will focus on roadside herbicide applications that includes licensing and certification, application equipment and techniques, calibration, label comprehension, mixing and loading and cleanup.

[Will Lackey](#) | [Oregon Department of Transportation](#)

Electrical Hazards and Awareness

We'll discuss the electrical hazards you may encounter in the field. For example, overhead & underground wiring; electrical hazards around motor vehicle accidents; power tools, cords, GFCI's, proper use, testing, and more.

[Johnny Sapp](#) | [ODOT Reg. 1 Electrical](#)

Pre-Trip Inspection Safety

This class provides in-depth coverage of the commercial vehicle pre-trip inspection required by the USDOT Federal Motor Carrier Safety Regulations. Introduces and guides the students through a Commercial Driver License (CDL) based checklist of the key vehicle locations that must be inspected prior to operation. This is the classroom safety portion; no vehicle walk-around will be included. [Darrell Randall](#) | [Contractor for Oregon T2 Center](#)

Public Agency Work Zone Traffic Control

This class covers the basics of temporary traffic control for the protection of maintenance and utility work areas. The program covers Federal and State standards, including the fundamental principles of traffic control from both part VI of the MUTCD and the Oregon Temporary Traffic Control Handbook. In-person class will include hands-on exercise.

[Bill Buterbaugh](#) | [Oregon T2 Center](#)

Critical Incident Stress Awareness

Todd uses his firsthand experiences with PTSD and continued healing to equip others to recognize and respond to the signs and symptoms of acute stress in their own lives. [Todd Munding](#) | [Oregon Department of Transportation](#)

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STREET MAINTENANCE | TRACK 4

Basic Chainsaw Safety

This session covers the beginners basic instruction on how to use the proper daily safety precautions for using chainsaws on the job. It includes training on the use of proper PPE and machine guarding and outlines safety procedures from pre use inspection to shut down. [Todd Munding](#) | [Oregon Department of Transportation](#)

RS-9 Maintenance Mathematics

A refresher and beginning class for public works employees. Participants will learn how to calculate areas, volumes, rates, and costs to solve common maintenance problems encountered in the field.

[Darrell Randall](#) | [Contractor for Oregon T2 Center](#)

RS-10 Introduction to Survey and Grade Checking

This class is a introduction to basic surveying techniques. Topics covered will include measuring, calculating elevations, and slope staking. A live class will include hands-on exercises. [Chris Pucci](#) | [Oregon Department of Transportation](#)

RS-11 Workplace Safety Training 1

This class is part 1 of a two-part series covering workplace safety training. Specific topics in this session are: what to expect from an OR-OSHA inspection, hazard communication, personal protective equipment, hearing conservation, blood-borne pathogens, and sleep deprivation. Must attend all six hours to receive credit for this class.

[Mike Eastman](#) | [Oregon T2 Center](#)

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