

## ROADeo Competition

City of Newberg

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.

## 811 – Excavation Safety

Jacob Gilbertson | NW Natural Gas – Damage Prevention

This keynote presentation will include Oregon/Washington dig laws, excavation best practices, and general education about natural gas and the hazards associated with it. We will show relatable examples that is sure to spark some questions and great conversation.

## COLLECTION SYSTEMS | TRACK 1

### 8-Hr HAZWOPER First Responder Operations

First responders at the operations level are individuals who respond to releases or potential releases of hazardous substances as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release. Some examples of a release of hazardous substance that maintenance staff respond to are sanitary sewer overflows; fuel and oil spill; paint spills and human or unknown chemical waste clean-up from un-housed campsites. This 8-hour training will cover all requirements for the First Responder Operations Level, that includes reviewing the Code of Federal Regulations (CFR) 29 Labor, 40 Protection of Environment and 49 Transportation. Students will learn to use the Emergency Response Guidebook to identify, Hazard Classification, Markings, Labels and Placards, Rail Car and Road Trailer Identification, Shipping Documents, and identifying Hazardous material by United Nations (UN) number or by product Name. We will discuss how to select and use proper Personnel Protective Equipment (PPE), go through the different levels of protection for skin, respiratory, and eye protection. Students will learn how to perform basic engineering control, containment and/or confinement techniques and operations within the capabilities of the resources and personal protective equipment available, as well as, how to implement basic decontamination process and understand the relevant standard operating and termination procedures. Students are required to complete a test at end of course to receive a certificate of completion.

Lloyd “Fuji” Ngariki | City of Eugene

### Vector Operation and Maintenance Certification

A Vector 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 Vector 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](#)

### Wet Well Wizard

This presentation will look at how Fats, Oils and Greases (FOG) create blockages and sewer gas problems for any sanitary sewer collections system. We will look at different methods of FOG maintenance and applications. We will discuss new technology and how it works. [Jim Dartez | InfoSense, Inc.](#)

### Sewer Line Rapid Assessment

Maintenance of a sanitary sewer system is a costly business. This class will look at maintenance programs from reactive to proactive and the benefits they have. We will cover equipment that agencies may use like combination jet/vacuum trucks and close circuit television equipment for maintenance purposes. We will look at new technologies and applications that may help reduce workloads. [Gene Hallum | InfoSense, Inc.](#)

### Sewer Line Rapid Assessment Demonstration

What is Sewer Line Assessment and how does it work? This class will look at what a sewer line assessment tool is and how it can be used in your maintenance program. There will be a demonstration to show its simple set-up and use, followed by uploading the information so the class can see its application process. We will talk about where an assessment tool can be used that may save time and cost in maintenance programs. [Gene Hallum | InfoSense, Inc.](#)

## **COLLECTION SYSTEMS | TRACK 2**

### **Adjustable Municipal Castings and Precast Concrete**

Evaluate the challenges related to the traditional methods of sanitary sewer or stormwater castings and precast concrete tops. Review Department of Transport or municipal standards for installation and grade adjustment. Discuss the advantages of new technology when choosing infrastructure replacements and maintenance applications.

[Matt Stiller | RimRiser](#)

### **Occupational Noise Exposure**

This session focuses on hearing conservation programs based on specific sanitary sewer equipment and the requirements necessary for protection. Participants will walk away with a better understanding of noise-induced hearing loss, how to properly protect themselves and noise hazards within their occupation.

[Jen Killpack | City of Medford](#)

### **Nozzle Applications for Sanitary Sewer & Stormwater Maintenance**

In this class, we will define the various types of nozzles and how each is used for specific applications through the use of a Power Point presentation. We will provide actual nozzles to touch and Q&A from participants providing specific examples of removing debris from pipes. The second hour of class will be held outside showing the various style of nozzles and how the streams and pressure differ by using a Vac Truck and a Flow Meter with a clear tube. Q&A time will be held at the end of the session. [Daryl Doran | ENZ Nozzles](#)

### **Equipment Best Practices for Sewer/Stormwater Cleaning in Maintenance Programs**

This presentation will focus on types of equipment currently available along with best practices for sanitary sewer and stormwater maintenance. We will discuss methods for improving operator safety and productivity. We will finish with a review and identify criteria for proper selection of new equipment and accessories.

[Shawn Bondele | Sewer Equipment Co. of America](#)

### **Stormwater and Sanitary Sewer Equipment Demo**

Hands on walk around to highlight features and benefits to enhance overall equipment performance pertaining to stormwater and sanitary sewer maintenance. Group discussion is encouraged to ask questions about particular methods of application to maximize equipment usage. Class will also cover appropriate cleaning nozzle selection and type of pressure range to operate the nozzle safely and the nozzles cleaning ability.

[Blake Matzdorff / Shawn Bondele | Sewer Equipment Co. of America](#)

### **Bloodborne Pathogens**

In this session will cover the basics of bloodborne pathogens and risks within sanitary sewer operations. Each participant will have a better understanding of pathogens and disease within their occupation, gain knowledge of control methods to protect themselves from exposure, and what to do if they are exposed.

[Jen Killpack | City of Medford](#)

### **Essentials for Silica Health & Exposure Risks**

We will discuss a brief history and the hazards of silica exposures in public workplace environments. The presenter will review Oregon OSHA silica rules, current trends and exposure controls for silica in the workplace.

[Kim Henry | SAIF Corporation](#)

### **Televising Sewer & Stormwater in Maintenance Programs**

Why do you clean and televise Sewer and Stormwater systems? This is a good question that I will answer during my presentation. We will go through the latest and safest ways of using combination trucks, correct jet nozzle usage and working together with Close Circuit Television (CCTV) equipment. We will cover safety equipment usage when performing manhole inspections. [Sheldon Teeples | Subsite UI](#)

### **Pipe Inspection 101**

In this class, we will discuss sewer pipe inspection and look at the history and reasons why pipe inspection is important. We will talk about best methods, terminology, and new technologies in pipe inspection. The speaker will cover NASSCO's PACP and coding. [Jim Brown | True North Equipment](#)

### **Pipe Inspection Equipment and Techniques**

This class will look at current equipment and techniques for sewer and storm inspection. We will discuss the benefits and issues with high-definition video and how it applies to everyday inspection. We will also code a pipe using information learned in the earlier class. [Jim Brown | True North Equipment](#)

### **Planning for a Fats, Oils, Grease (FOG) Abatement Program**

Clayton will explain how to determine if your city needs a fats, oils, grease (FOG) abatement program. This session will cover the planning process, and what data is needed to justify a FOG program. We will also discuss stakeholder identification and involvement processes. [Clayton Brown | Alliance](#)

### **Employee Safety for the Wastewater Industry**

This course will review common hazards within the wastewater industry and ways to mitigate risks. Wastewater workers are exposed to biohazards, gases, chemicals, confined spaces, fall hazards, and many other hazards. This course will provide information on how to identify these hazards and prevent injuries. [Elena Estrada | WES](#)

### **Plan Reading and Sewer Designs**

For maintenance of sanitary sewer and storm drain collection systems, it is beneficial to know how to find information about existing infrastructure from the construction plans. This session will review the general layout of plans and the location of data for infrastructure such as pipe sections, manholes, and catch basins that maintenance crews encounter in the field. Information covered will include: determining slopes and grades of pipes, understanding stationing, locating invert elevations, finding data such as pipe materials, and where to look for referenced details.

[Alena Beltz | City of Medford](#)

### **Stormwater System Maintenance Program**

This session will cover how to evaluate where your stormwater maintenance program is today. Then we will discover how to determine where your stormwater program should be. To wrap up, we will cover some means and methods to move your program in that direction. [Preston Langeliers | City of Newberg](#)

### **WinCan AI Inspections**

In this session, you learn the capabilities and reliability of WinCan AI. We will discover how AI is the future of sewer and stormwater inspection. You will leave with a better understanding of the importance of the industry moving towards AI, as it will provide a consistent, unbiased evaluation. [Freddie Garcia | WinCan LLC](#)

### **Combination Unit Operator Activity**

Class discussion will be around types of equipment that are used for maintenance purposes including some benefits that make the activity simpler. Topics covered will be types of maintenance programs, maintenance management systems, field set-ups, cleaning tools and usage and challenges in maintenance of a sanitary sewer collections system. There will be a case scenario that we will walk through each step in responding to a Sanitary Sewer Overflow (SSO).

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

## STREET MAINTENANCE | TRACK 3

### Securing Your Load

This class covers important Federal and State Motor Carrier Requirements pertaining to equipment tie-downs. Included in this presentation will be the Federal Motor Carrier Safety Administration rules on Protection Against Shifting and Falling Cargo. [Darrell Randall](#) | [Oregon T2 Center](#)

### Chainsaw Safety

This session will cover chainsaw components and safety features along with how to maintain and use a chainsaw safely. It will also include what chainsaw PPE is needed, and how to properly use it. We will discuss what to look for in the field when cutting a tree with a chainsaw. [Ricky Munds](#) | [DTD](#)

### Pre-Trip Vehicle Inspection

This class provides in-depth coverage of the commercial vehicle pre-trip inspection required by the USDOT Federal Motor Carrier Safety Regulations. The class 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.

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

### Public Agency Work Zone Traffic Control, Flagging Certification

This class covers the basics of temporary traffic control for the protection of maintenance and utility work areas. This program includes 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. Must attend all four hours to receive 3-year flagger certification card. [Bill Buterbaugh](#) | [Oregon T2 Center](#)

### Confined Space Safety Basics

This class will provide an overall understanding of how to evaluate and work in confined spaces. We will identify the roles of entrant, attendant and supervisor responsibilities, to enter sewer manholes and vaults. We will cover hidden dangers and close calls associated with these entries on a 30-year career working in confine space. This class will evaluate rescue readiness in these situations. [Bill Buterbaugh](#) | [Oregon T2 Center](#)

## STREET MAINTENANCE | TRACK 4

### Emergency Bridge Assessment

In this class, we will teach public works employees how to inspect a bridge after a seismic or other event that may have caused damage. We will cover preparations that agencies should take prior to a seismic event, using the bridge inspection form, reporting the results of the inspection, and marking and closing a bridge when necessary.

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

### RS-1 Basics of a Good Road

This is a required class for those in the Roads Scholar program. An introduction to the Roads Scholar Program, this class provides a general overview. Topics include traffic, road geometrics, drainage, materials, and pavements.

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

### RS-12 Workplace Safety Training 2

This is a required core class for those in the Roads Scholar Level 2 program. The class material covers workplace safety topics that include: Safety Committees; Safe Lifting; Ladder Safety; Confined Space Awareness; Trenching, Excavation and Shoring Awareness and Power Hand Tool Safety. [Mike Eastman](#) | [Oregon T2 Center](#)

### RS- 2 Drainage: Key to Roads that Last

This is a required class for those in the Roads Scholar program. Examines the effects of water on roadways. Participants will learn how water enters the roadway, the types of drainage systems that work, maintenance and repair techniques.

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