

## **Safety and Personal Integrity**

[Shelley L Campbell, RN, BSN | Legacy Emanuel Medical Center, Trauma Services](#)

This keynote presentation is presented by a trauma nurse and will explore the number one causes of injury and death, on and off the job. We will discuss the relation of force applied to the body and injuries sustained in an accident. Discussion will include the importance of being safe in all aspects of our lives and students will have a better understanding of safety on the job as well as on the road to a jobsite. The topic discussions are relevant to all public workers and those they come in contact with on a daily basis.

## **COLLECTION SYSTEMS | TRACK 1**

### **Pipe Inspection 101**

The course introduces pipe inspection and CCTV operations. We will cover the history of sewer pipe and design, equipment, and performing a survey. The class also discusses software, reporting, and new technologies.

[Jim Brown | True North Equipment](#)

### **Manhole Inspection to Reduce Inflow and Infiltration**

The class covers the forgotten part of the sewer system, the manhole or maintenance access point. We will identify construction, potential I&I entry, inspection, and reporting. We also look at new technologies for inspection and reporting.

[Jim Brown | True North Equipment](#)

### **Odor and Corrosion Control Basics**

Presenter, Methelyn Murphy, will cover basic Liquid Phase and Vapor Phase Odor Control technologies commonly used in the wastewater industry. She will discuss applications in both pump stations and treatment plants and will go over ways to survey odor and corrosion problems and the best ways to mitigate these issues.

[Methelyn Murphy | Evoqua Water Technologies](#)

### **Practical Locating of Sewer and Water Pipes**

A practical guide to locating sewer and water lines with the most accurate methods. Topics include choosing the best methods, frequencies, and antennas to accurately locate and check accuracy, the ways to locate pipes, tracer wires, sondes, cameras. We will discuss how to solve challenging locates. [Brian Moss | RJM Equipment Sales, Inc.](#)

### **Combination Sewer and Storm Water Trucks**

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.](#)

### **Competent Person Training – Excavation Safety**

This is an engaging and comprehensive class that will cover the hazards in and around wastewater and sewer excavations. We will discuss solutions to those hazards, what the requirements of the rules are, and soil classification simplified. [Bret Taylor | Falcon Shoring Co.](#)

### **Storm & Sanitary Sewer CCTV Discussion**

Join the City of Hillsboro stormwater and sanitary sewer CCTV operators for an interactive discussion on CCTV and the many components. The presentation will cover the software, hardware, camera equipment, vehicles, and how to apply it to the underground storm and sanitary pipe system assessment. Share practical tools CCTV operators will use on difficult to access and less than ideal situations during daily operations.

[Christopher Hall, Wayne Polly, Dusty Adams | City of Hillsboro](#)

### **Environmental Spill Responsibility**

The class will look at what is an Environmental Spill Program and how it applies to a wastewater and stormwater maintenance program. We will cover the responsibility of an equipment operator and some of the procedures your agencies may take on how to respond to a leaking equipment that may impact the stormwater system. The class will also look at dealing with hazardous recycling and handling of “known” or an “unknown” substance.

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

## COLLECTION SYSTEMS | TRACK 2

### A-Z of Wastewater Lift Station Considerations

The majority of the DEQ guidelines for wastewater lift stations were written in the 1980s. Since then, the type of waste we see in our sewer collection system has changed. The technology to pump this new waste has also changed, however most RFQ for engineering services and general specifications to develop a new or refurbishment of a lift station has not. In this session we will look at what challenges a station has to deal with in the 2020's and beyond and develop questions that should provide a station that provides significant power savings and reduce ongoing maintenance by 40-50% over a station that just meets DEQ guidelines. [Simon Cartwright | Xylem – Flygt Pumps](#)

### Basic Nozzil Applications for Sewer and Storm

This class is presented with a PowerPoint program utilizing photos, charts, and videos showing various uses of specific nozzles. The focus is to illustrate the specific tools to use based on the type of material needing to be removed. Q&A will be ongoing after each section of the presentation, before moving into the next topic [Daryl Doran | ENZ Nozzles](#)

### Confined Space Safety

Class provides an extensive overview of OAR 437-002-0146 Oregon's Confined Space Rule. Responsibilities of entrants, attendants & entry supervisors, making safe entries, testing & monitoring atmospheres, use of rescue and monitoring equipment, and requirements for maintenance, use and care of the equipment. A must attend class for sanitary sewer & storm water systems workers. [Greg McDonald | Ritz Safety](#)

### Safety-at-Heights Fall Protection

This session will cover the fundamentals of Safety-at-Heights Fall Protection, regulations, fall hazard control methods, physics of a fall, anchor points, identifying and selection of equipment, building systems-work positioning, restraint & personal fall arrest, calculating fall distance's, suspension trauma & rescue requirements and equipment inspections. This is a good class to attend for workers in sanitary sewer & storm water systems, and anyone working at heights.

[Greg McDonald | Ritz Safety](#)

### Proper Nozzle Selection for Sewer and Storm

Eric will provide the knowledge on proper nozzle selection for different applications. We will discuss specialty nozzles and best practices, and basic safety while jetting a sewer or storm line. [Eric Lundy | Owen Equipment Co.](#)

### 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.

[Chantel Evans | Insituform Technologies](#)

### Combination Unit Operator Activity

Discussions will be around types of equipment that are used for maintenance purposes including some benefits that make the activity simpler. Topics that will be 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](#)

### 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](#)

## **STREET MAINTENANCE | TRACK 3**

### **HazMat Awareness Refresher**

This training is geared toward public works employees who may come across the scene of a hazardous materials or potential terrorist incident in the course of their work. It is intended to provide refresher training for those who have already taken the Hazardous Materials Awareness course. Awareness level training prepares participants to identify a hazardous materials spill, notify proper authorities, and stay safe until help arrives. The course explains the roles of other response personnel at a hazardous materials or terrorist incident. [Bill Buterbaugh | Oregon T2 Center](#)

### **Leaf Pick-up Program / Street Sweeper Operations**

The presentation will talk about the City of Eugene's Fall Leaf Pick-up Program. We will also discuss the partnership between City of Eugene's Public Works crews to fulfill the need to pick-up leaves and how the City of Eugene's street sweepers support this operation and others to comply with our stormwater permits.

[Troy Wendt, David Richards | City of Eugene](#)

### **Equipment Tie-Down**

This class covers important Federal and State Motor Carrier Requirements pertaining to equipment tie-downs. The classroom session covers the Federal Motor Carrier Safety Administration rules on Protection Against Shifting and Falling Cargo and wraps up with a class exercise. The training then moves outdoors and concludes with a field exercise.

[Bill Buterbaugh | Oregon T2 Center](#)

### **Winter Pothole Patching**

Tips, tricks, and techniques that lead to successful repairs of asphalt potholes in Western Oregon during winter months. There will be a brief overview of the evolution of our process and techniques that have helped us find greater success patching potholes in the winter in Western Oregon. [Manuel Serna Vargus, Juan Sanchez | City of Eugene](#)

### **What to Expect from an OR-OSHA Inspection**

This session will cover what the process of an inspection looks like and what compliance officers are required to do and what an employer can do. We will discuss some of the things the compliance officers look for. There will also be a discussion of what companies can do to prepare for a potential inspection.

[Larry Fipps | OR-OSHA](#)

### **What's Wrong with this Picture?**

In this session we will show pictures of the types of items a compliance inspection might find and a discussion on how to keep them from occurring. [Larry Fipps | OR-OSHA](#)

### **Radio Communication for Emergency Operations**

As cell phones have become more common, we've become less reliant on our radios, and less proficient as well. Yet cell phones have limitations, and during a disaster or emergency may even be unusable. We'll explore good radio procedure for clear, efficient communication, types of radios, and how to get the most from the equipment available to you. [Mike Eastman | Oregon T2 Center](#)

### **360 Leadership**

This class covers multiple aspects of leadership development for those in Public Works. Class is intended for those who are interested in progressing into a leadership position in their career as well as leadership techniques and ideas for those who are already leading others in their current positions. topics will include not just leading from the top, but also how to lead across your organization through integrity and consistency. [Tony Jobanek | Oregon T2 Center](#)

## **STREET MAINTENANCE | TRACK 4**

### **RS-7 Effective Communication Skills**

This is a required core class for those in the Roads Scholar Level 1 program. The class presents the principles of listening, speaking and writing skills for more effective communication with the public, co-workers, supervisors and others. Group exercises will be used to practice the principles presented. [Tony Jobanek | Oregon T2 Center](#)

### **RS-18 Winter Road Maintenance**

This is a required class for those in the Roads Scholar Level 2 program. Winter maintenance training that includes anti-icing, material selection, equipment maintenance, proper plowing techniques, de-icing, winter maintenance management and use of performance measures. [Tony Jobanek | Oregon T2 Center and Darrell Randall | Contractor for Oregon T2 Center](#)

### **RS-8 Environmental BMPs 2**

This is a required class for those in the Roads Scholar Level 1 program. The class presents an overview of environmentally friendly vegetation management and erosion control methods. Vegetation control activities such as mowing, brush cutting, and spraying will be covered as well as related issues including chemical spills and use of personal protective equipment. The discussion on erosion and sediment control for highway maintenance activities will define what it is, cover the reasons why it's needed, identify the causes of erosion and address various best management practices. [Will Lackey | ODOT](#)