

GENERAL SESSION

Traumatic Stress and PTSD Awareness

Todd Mundinger, ODOT

Todd Mundinger has worked in the tow and fire industry in Oregon for over 30 years. He began his career as a tow truck operator, then as a firefighter and a Wilderness Search and Rescue Medic. Todd joined the Oregon Department of Transportation as an Incident Responder from 1997 to 2014. Today, he serves as ODOT's Training Program Manager for the Maintenance and Operations Branch, leveraging all his skills, experience, and training to promote employee safety. Todd uses his firsthand experiences with traumatic stress and PTSD to equip others to recognize and respond to the signs and symptoms of acute stress in their own lives.

COLLECTION SYSTEMS SESSIONS

Inspections of Collections & Storm Assets: Let's Take a Look! (Avery Wilson, CUES)

This class will review gathering ability on utility infrastructure using cameras, data capturing devices, & documentation of inspections performed in the field.

Nozzle Maintenance for Sanitary Sewer & Stormwater (Daryl Doran, ENZ Nozzles)

In this class, we will define the various types of nozzles and how each is used for specific applications using a Power Point presentation, actual nozzles to touch and Q&A from participants providing specific examples of removing debris from pipes.

CCTV Outdoor Demo – Collecting Intel (Avery Wilson, CUES)

This outside CCTV demonstration will provide options for investigative, as well as base line assessment of buried infrastructures. We will review the normal deployment of robotic camera/crawler systems for data gathering purposes.

Nozzle Maint. for Sanitary Sewer/Stormwater, Outdoor Demo (Daryl Doran, ENZ Nozzles)

In this outdoor demo, we will show the various style nozzles and how the streams and pressure differ by using a Vac Truck and a Flow Meter with a clear tube. We will have time for Q&A from students.

Phased Assessment of Sanitary Sewers (Jim Brown, True North Equipment)

This course offers alternatives to the current procedures for inspecting sanitary sewer lines. We will discuss other methods using different equipment to achieve the goals set by management. We will discuss how these steps can reduce costs and be highly effective.

Building a Business Case for a FOG Program (Clayton Brown, Western States Alliance)

Many municipalities battle fats, oils, grease (FOG) in the collection and treatment systems, posing the question: How much does FOG cost the city? This session provides tools to calculate the cost of FOG to the city and provides tools to calculate the cost of developing a FOG Abatement Program to reduce FOG. This allows municipal decision makers to determine if the cost to develop a FOG program is less than the status quo cost of doing nothing.

Vector Operation & Maintenance Certification (Greg Read, Owen Equipment)

A Vector combination truck is used in the maintenance of sanitary sewer and stormwater system. In this 6-hour course, students 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.

Rethinking Manhole Inspection (Jim Brown, True North Equipment)

Manholes are an important part of any wastewater system but go neglected in many systems. Manholes are also a large source for I&I. In this class we discuss manhole construction, and how inspection can help eliminate treating excess flow.

Confined Space (Greg McDonald, Ritz Safety)

The instructor will provide an overview of confined spaces, roles, duties, and responsibilities of Entrants, Attendants and Entry Supervisors. We will discuss maintenance, use, care and requirements of gas detection and rescue equipment.

Proper Nozzle Selections for Jetting Sewer/Storm (Eric Lundy, Owen Equipment)

In this class we will discuss proper nozzle selection based on application. We will also differentiate the relationship between RPM, GPM and PSI. We will review the different performance and efficiency technologies available in nozzles. In addition, we will talk about safety and proper operations of nozzles.

Combination Sewer & Stormwater Trucks (Shawn Patrick, Owen Equipment)

We will have a general discussion of Combination Trucks and their equipment regarding sewer and storm water applications. We will talk about types of trucks, styles, uses and their history. Students will learn how they squirt, suck, contain and transport.

Top Ten Safety Hazards (Eric Fullan, City of Hillsboro)

This 2-hour session will focus on the common hazards that are getting Public Works waste/storm water workers and water utility workers injured and how to prevent those injuries. We will also discuss OSHA requirements, penalties, and how this affects insurance costs. This class will help maintenance workers and supervisor's awareness of hazards while they perform, be alert to safe work practices, and adopt a safe work environment culture.

Excavation Safety and the Role of the Competent Person (Eric Fullan, City of Hillsboro)

Recent trench collapses illustrate the importance of the proper use of protective systems. This class will focus on OSHA's Excavation Standard including proper safe work practices while working in and around excavations, proper soils analysis and classifications and protective systems with added emphasis on the role and responsibilities of the competent person requirements.

Developing a FOG Abatement Program (Clayton Brown, Western States Alliance)

Fats, oils, and grease (FOG) is impacting the municipal collection and treatment systems. The city has decided to develop a FOG Abatement Program. This session provides planning tools and case studies to help get an effective program developed and implemented. The session includes stakeholder information and tools for involving stakeholders in the planning and implementation of the program.

Combination Unit Operator Activities (Lloyd "Fuji" Ngariki, City of Eugene)

There will be a brief discussion on Covid-19 response and changes to maintenance practices. Students will take a virtual walk-around combination unit tour to highlight additional equipment and tools that makes sanitary sewer maintenance practices simpler and safer. We will learn different activities that are performed by an operator including line segment cleaning, hydro-excavations, and sanitary sewer overflows.

Mitigate Roots in a Collections System (Lloyd "Fuji" Ngariki, City of Eugene)

Class content will include root blockages and causes, root removal tools, selection & applications in collection systems. We will also look at a root cut video, other options for root removal and talk about maintenance challenges.

STREET MAINTENANCE SESSIONS

Pesticide Use – Top 10 Tips from the Field (Will Lackey, ODOT)

This presentation will be in a countdown format. Session will include a multitude of topics surrounding pesticide use. Topics will include equipment inspection and calibration, personal protective equipment, label comprehension, integrated pest management, record keeping, license certification and recertification, importance of proper pest identification, minimizing pesticide drift and checking weather forecasts.

RS-1 Basics of a Good Road (Tony Jobanek, Oregon T2 Center / Darrell Randall, Retired)

This is a required core class for those in the Roads Scholar Level 1 program. The class material covers road basics by providing a general overview of traffic, road geometrics, drainage, materials, and pavements.

Salt: A New Tool in ODOTs Winter Maintenance Toolbox (Scott Rattay, ODOT)

The Oregon Department of Transportation has taken a phased approach to implementing solid salt as part of the winter maintenance toolbox. This session will cover lessons learned and the best management practices adopted by ODOT to minimize impacts to the environment and maximize the benefits of using salt.

Tree and Debris Impacts Due to Storm Events (TBD)

PENDING

RS-18 Winter Road Maintenance (Tony Jobanek, Oregon T2 Center/Darrell Randall, Retired)

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.

Hearing Conservation (Bill Buterbaugh, Oregon T2 Center)

This class will teach the student how everyday practice and habits can be modified to conserve our ability to hear. This class is focused on our work environment and how to minimize hearing loss to protect our ability to hear. All students will be informed how vulnerable our hearing is and how to protect it in this occupation.

Winter Pothole Repair (Daniel Soto / Juan Sanchez, City of Eugene)

Every winter, agencies experience an increase in the number of potholes that show up on their road system. In this class we will discuss and explore options to challenges we face for pothole repair in the Pacific Northwest. There will also be discussion about patching techniques crews can do that help prolong the life of a temporary patch.

Pinchpoint and Stored Energy Awareness (David Dixon, Clackamas County)

This session will outline the dangers of stored energy as well as pinchpoint hazards found in most public agency's facilities. The instructor will show how to spot them, avoid being injured by them, and ways to eliminate them.

Proper Lifting Techniques (Megan Shaw, ODOT)

In this class, we will talk about and practice proper lifting techniques; including thinking through the task, lifting techniques to avoid injury and storage height. This session will also include some stretching to warm-up and practice reducing injury from stiff muscles.

Culvert Inspections (Robert Trevis, ODOT)

Although historically overlooked, culverts are essential to the highway system and contribute to a safe and dependable transportation system while contributing to Oregon's economic success. The percentage of culvert failures are significantly on the rise each year bringing environmental and economic hardships to Oregon's local communities. This presentation will cover the development of the Oregon Department of Transportation's culvert inspection program designed to bring statewide uniformity and consistency. Specific topics include site investigations, inspection ratings, scoring systems, funding support and video specifications.

RS-2 Drainage: Key to Roads that Last (Tony Jobanek, Oregon T2 Center/Darrell Randall, Retired)

This is a required core class for those in the Roads Scholar Level 1 program. The class material examines the effects of water on roadways. Participant will learn how water enters the roadway, the types of drainage systems that work and maintenance and repair techniques.

Winter Defensive Driving (Jason Malloy, Newport Police Dept.)

Winter driving presents special hazards and requires additional skills for safe travel. Learn how to recognize the hazards you should be prepared for, and the skills needed to handle them. Learn about resources available to keep you up to date about conditions, and how to make good decisions about your travel plans.

Road Rage (Jason Malloy, Newport Police Dept.)

Road rage is a growing problem, which can lead to devastating results. Learn to recognize a potential road rage incident in the making, and how to avoid becoming entangled. Learn what to do when you are faced with an incident, despite your best efforts.