

Course Agenda

2023 Pendleton Public Works Training

Flood Response for Water and Wastewater Operators

Course Agenda January 10th, 2023

08:00am – 09:00am: Flooding: Science, Outlooks, and Safety; Presented by Katy Branham

09:00am – 09:15am: Break

09:15am – 10:15am: Snowpack and Flood Awareness; Presented by Matt Warbritton

10:15am – 10:30am: Break

10:30am – 11:30am: McKay Dam History and Operations; Presented by Chet Sater

101:30am – 12:30pm: Flood Response Plan and Water Emergency Response Plan;
Presented by Jeff Brown

Flood Response for Water and Wastewater Operators

January 10th, 2023

Location: Pendleton Convention Center

Duration: 1.0 hrs.

CEUs: 0.1W, 0.1WW

Flooding: Science, Outlooks, and Safety

Instructor: Katy Branham, Warning Coordination Meteorologist, National Weather Service

Fundamentals of the hydrologic cycle and flooding science and terminology. Resources for monitoring potential flooding events, including a review of the 2020 Flood. Flood Safety basics and yearly statistics will also be shared from 2021 and 2022.

At the conclusion of this presentation, participants will:

- Understanding the hydrologic cycle, and how it replenishes the water supply
- Understanding the source, movement, and character of groundwater
- Know some of the sources of impurities in the groundwater supply
- Know the basic vocabulary of water supply hydrology



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Flooding: Science, Outlooks, and Safety

Presenter: Katy Branham Title: Warning Coordination Meteorologist

Employer: National Weather Service - Pendleton Address: 2001 NW 56th Dr.

City: Pendleton State: OR Zip: 97801 Phone: 541-276-7832

Summary of Lesson content: Fundamentals of the hydrologic cycle and flooding science and terminology. Resources for monitoring potential flooding events, including a review of the 2020 Flood. Flood Safety basics and yearly statistics will also be shared from 2021 and 2022.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Forecaster with the National Weather Service since 2004. Weather forecaster - flood, severe weather, winter, fire, aviation and more. Coordinate with NWS Partners. Presenter.

Education (High School, Upgrades, Colleges and Degrees): South Dakota School of Mines and Technology (Master of Science - Atmospheric Science). Ohio University (Bachelor of Science - Pre-Meteorology | Computer Science).

Professional Registration/Certification: N/A

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: American Meteorological Society - Member Date: Since 2021

National Weather Association - Member Date: Since 2021

Course sponsor: _____

Signature of Instructor: BRANHAM.KATY.LYNNE.13658 Digitally signed by BRANHAM KATY.LYNNE.136585230 Date: 2023.01.05 10:54:01 -08'00' Date: 1/5/2023

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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CEUs: 0.1W, 0.1WW

Snowpack and Flood Awareness

Instructor: Matt Warbritton, Hydrologist, USDA NRCS

Presentation provides an update on current snowpack conditions, what is snow water content, flood risks associated with rain-on-snow events.

At the conclusion of this presentation, participants will:

- Understand: Snowpack density, snow water equivalent (SWE) and landscape disturbance- to look for in gaging when snowpack is starting to melt, and if a rainstorm may trigger flash flooding.
- Understand Landscape disturbances, notably burned areas post-wildfire.
- Understand snowpack, precipitation and streamflow monitoring and know where to located the most up-to-date data.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Snowpack and Flood Awareness

Presenter: Matt Warbritton Title: Hydrologist

Employer: USDA NRCS Address: 1201 NE. Lloyd Blvd. Suite #900

City: Portland State: OR Zip: 97232 Phone: 5033072829

Summary of Lesson content: Update on current snowpack conditions, what is snow water content, flooding risks associated with rain-on-snow events

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Hydrologist with the USDA NRCS Oregon Snow Survey (Lead Hydrologist and Data Quality Specialist), previous: physical scientist at Yosemite National Park

Education (High School, Upgrades, Colleges and Degrees): Master's in Geology with a focus on glacial geomorphology

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: MATTHEW WARBRITTON Digitally signed by MATTHEW WARBRITTON
Date: 2023.01.05 13:05:44 -08'00' Date: 01/05/2023

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CEUs: 0.1W, 0.1WW

McKay Dam History and Operations

Instructor: Chet Sater, Umatilla Field Office Manager, Bureau of Reclamation

Presentation will provide the most up to date authorization and history of McKay Dam and Operations of McKay. Review recent years of high flows and our notifications.

At the conclusion of this presentation, participants will:

- Enable attendees to implement best practices that will allow their agency to more effectively and efficiently reduce the risk posed by McKay Reservoir.
- Identify inflow/outflow and identify risks
- Understand new technology being used as state-of-the-practice dam construction including cement-bentonite cutoff walls, geosynthetic liners, and dewatering techniques.
- Have an understanding of McKay Dam emergency action plan



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: McKay Dam History and Operations

Presenter: Chet Sater Title: Umatilla Field Office Manager

Employer: Bureau of Reclamation Address: 32871 Diagonal Road

City: Hermiston State: OR Zip: 97838 Phone: 541 564 8616

Summary of Lesson content: Authorization and history of McKay Dam, and operations of McKay.

Go over recent years of high flows and our notifications

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Congressional Authorizations, Hydrology, Dam Operations, Emergency Action Plans,

Education (High School, Upgrades, Colleges and Degrees): I have a degree in Biology

Professional Registration/Certification: None

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: _____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: **CHESTER SATER** Digitally signed by CHESTER SATER Date: 2023.01.05 13:26:26 -08'00' _____ Date: _____

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Flood Response Plan: Water and Wastewater Emergency Response Plans for Flood Fight Procedures

Instructor: Jeff Brown, Public Works Superintendent, City of Pendleton

- Water Emergency Response Plan
- Wastewater Emergency Response Plan
- Water and Wastewater Operators' roles and Emergency Response
- Other City Employees' roles and Emergency Response
- Review Flood Fight Supplies
- SCADA Alert @ 8,000 CFS; Response
- SCAADA Alert @ 10,000 CFS; Inspect Levee and Manholes; Install closures @ SW 10th
- SCADA Alert @ 16,000 CFS; Initiate ICS System; Send out Mass Notification
- McKay Creek Response
- Tutuilla Creek Response



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Flood Response Plan and Water Emergency Response Plan

Presenter: Jeff Brown Title: Public Works Superintendent

Employer: City of Pendleton Address: 1501 SE Byers

City: Pendleton State: Or Zip: 97801 Phone: (541) 966-1153

Summary of Lesson content: Roles and Responsibilities for Water and Wastewater personnel during emergencies
communication procedures, personnel safety, ID of alternate water sources, emergency and chemical supplies,
protection of property, cleanup, health concerns.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Response plan administration and on-the-ground
emergency coordinator and manager.

Education (High School, Upgrades, Colleges and Degrees): Pendleton High School Graduate

Professional Registration/Certification: WWC IV; WWT II; WD I; Excavation Competent Person; Flagger;
Forklift Trainer

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:
PNCWA _____ Date: _____

APWA _____ Date: _____

Course sponsor: City of Pendleton

Signature of Instructor: _____ Date: _____

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**OSHA Training Required Training: Ladder Safety/Operations, Lockout/Tagout/Asbestos
Class III Awareness Refresher, Saw Safety and Operations**

Course Agenda March 14th, 2023

08:00am – 09:00am: Ladder Safety and Operations for Water and Wastewater Operators;
Presented by Greg Lacquement

09:00am – 09:15am: Break

09:15am – 10:15am: Lockout/Tagout for Water and Wastewater Operators; Presented by
Greg Lacquement

10:15am – 10:30am: Break

10:30am – 11:30am: Class III Asbestos Containing Material Refresher; Presented by Klaus
Hoehna

**101:30am – 12:30pm: Chainsaw and Powersaw Use, Maintenance and Safety for Water
and Wastewater Operators;** Presented by Matt Hoehna

**OSHA Training Required Training: Ladder Safety/Operations, Lockout/Tagout/Asbestos
Class III Awareness Refresher, Saw Safety and Operations**

March 14th, 2023

Location: Pendleton Convention Center

Duration: 1.0 hrs.

CEUs: 0.1W, 0.1WW

Ladder Safety and Operations for Water and Wastewater Operators

Instructor: Greg Lacquement, Regulatory Specialist, City of Pendleton

This course will teach employees how to select the right ladder for the job they are performing, as well as best practice for inspecting the ladder before using it. Employees will be provided actionable tips and best practice that come directly from case studies and real-world examples.

At the conclusion of this presentation, participants will:

- Have the ability to set up and work with ladders according to OSHA Standards
- Be able to list common and avoidable ladder-related hazards
- Explain how to prevent ladder-related injuries.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Ladder Safety and Operations for Water and Wastewater Operators

Presenter: Greg Lacquement Title: Regulatory Specialist

Employer: City of Pendleton Address: 1501 SE Byers Ave

City: Pendleton State: OR Zip: 97801 Phone: (541)966-0249

Summary of Lesson content: This Ladder Safety Course will teach employees how to select the right ladder for the job
thier performing, as well as best practice for inspecting the ladder before using it. Employees will be provided actionable
tips and best practice that come directly from case studies and real-world examples.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 17 Years Fire Department experience specializing in
Truck Company Operations, specifically Ladder Operations.

Education (High School, Upgrades, Colleges and Degrees): Applied Science (Emergency Management), BAS from
Arizona State University.

Professional Registration/Certification: Firefighter I/II, Truck Company Operations

Related papers/instruction you have presented:

Title: Ladder Safety Date: _____ Event: Fire Department Training Manual

Title: Advanced Ladder Operations Date: _____ Event: Various Fire Dept. in NW

Professional Organizations/Activities:

AWWA

Date: _____

APWA

Date: _____

Course sponsor: City of Pendleton

Signature of Instructor: G. Lacquement Date: 1/6/2023

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**OSHA Training Required Training: Ladder Safety/Operations, Lockout/Tagout/Asbestos
Class III Awareness Refresher, Saw Safety and Operations**

March 14th, 2023

Location: Pendleton Convention Center

Duration: 1.0 hrs.

CEUs: 0.1W, 0.1WW

Lockout/Tagout for Water and Wastewater Operators

Instructor: Greg Lacquement, Regulatory Specialist, City of Pendleton

Presentation covers the lockout/tagout standard to cover the servicing and maintenance of machines and equipment in which the “unexpected” energization or start up of the machines or equipment or release of stored energy could cause injury/to employees.

At the conclusion of this presentation, participants will:

- Understand best practices and city procedures that are necessary to disable machinery or equipment
- Understand how to prevent the release of potentially hazardous energy while maintenance and servicing activities are being performed.
- Know how to ensure power is not restored
- Understand the need for lockout/tagout procedures and to demonstrate and teach the procedures to prevent accidents.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Lockout/Tagout for Water and Wastewater Operators

Presenter: Greg Lacquement Title: Regulatory Specialist

Employer: City of Pendleton Address: 1501 SE Byers Ave

City: Pendleton State: OR Zip: 97801 Phone: (541)966-0249

Summary of Lesson content: This course addresses practices and procedures that are necessary to disable machinery or equipment and to prevent the release of potentially hazardous energy while maintenance and servicing activities are being performed.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 17 Years Fire Department experience specializing in Truck Company Operations with a primary responsibility of securing utilities.

Education (High School, Upgrades, Colleges and Degrees): Applied Science (Emergency Management), BAS from Arizona State University.

Professional Registration/Certification: Firefighter I/II, Truck Company Operations

Related papers/instruction you have presented:

Title: Securing Utilities Date: _____ Event: Fire Department Training Manual

Title: First Due Truck Operations Date: _____ Event: Advance Truck Ops Training Academy

Professional Organizations/Activities:

AWWA

Date: _____

APWA

Date: _____

Course sponsor: City of Pendleton

Signature of Instructor: G. Lacquement

Date: 1/6/2023

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Duration: 1.0 hrs.

CEUs: 0.1W, 0.1WW

Class III Asbestos Containing Material Refresher

Instructor: Klaus Hoehna, Regulatory Specialist, City of Pendleton

This course will review asbestos health impacts, basic physiology, bio-mechanics of asbestos inhalation, recognizing exposure, locating asbestos material in wastewater and water piping systems, recognizing damage, OSHA reporting, best practice for asbestos containing pipe abatement/inspection/disposal, friable vs. non-friable ACM.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Class III Asbestos Containing Material Refresher

Presenter: Klaus Hoehna Title: Retired Regulatory Specialist

Employer: City of Pendleton, Callback Address: 1501 SE Byers Ave

City: Pendleton State: OR Zip: 97801 Phone: (541) 966-0249

Summary of Lesson content: Review of asbestos health impacts, basic physiology, bio-mechanics of asbestos inhalation, recognizing exposure, locating asbestos material ini wastewater and water piping systems, recognizing damage, OSHA reporting, best practices for asbestos containing pipe abatement/inspection/disposal, friable vs. non-friable ACM.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Public Works Safety Officer; Class III Asbestos course completion; Routinely porcess AC Pipe disposal using OSHA/DEQ guidelines.

Education (High School, Upgrades, Colleges and Degrees): BA-U of Portland; BS-Oregon State Univ; BS- Oregon State Univ.; MS-Auburn Univ. @ Montgomery, AL.

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:
Retired Officers Assoc.

Date: 2016

Military Officers Assoc.

Date: 2016

Course sponsor: City of Pendleton

Signature of Instructor: _____ Date: 1/5/2023

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CEUs: 0.1W, 0.1WW

Chainsaw and Powersaw Use, Maintenance and Safety for Water and Wastewater Operators

Instructor: Matt Hoehna, Wildland Fire Supervisor, Oregon Department of Forestry

This course will cover basic chainsaw and power saw use, maintenance and safety for public works employees. Focus on workplace brush and tree cutting, pipe cutting that water and wastewater treatment operators will encounter when using gas engine powered saws.

At the conclusion of this presentation, participants will:

- Will be able to identify the elements in a job hazard analysis.
- Will be able to perform all field maintenance required to maintain a chain saw properly and operate it safely.
- Know the importance of a thorough sizeup before limbing, brushing, slashing, bucking, and felling operations.
- Understand the skills needed to operate a chain saw/ power saw safely and efficiently



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Chainsaw and Powersaw Use, Maintenance and Safety for Water and Wastewater Operators

Presenter: Matt Hoehna Title: Wildland Fire Supervisor

Employer: Oregon Dept. of Forestry Address: 1055 Airport Rd.

City: Pendleton State: OR Zip: 97801 Phone: (541) 410-7638

Summary of Lesson content: Basic chainsaw and power saw use, maintenance and safety for public works employees.

Focus on workplace brush and tree cutting, pipe cutting that water and wastewater treatment operators will encounter when using gas engine powered saws.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: ODF Wildland Fire Supervisor who routinely instructs and evaluates forestry technicians in the safe use, maintenance and operation of chain saws and related power saws.

Education (High School, Upgrades, Colleges and Degrees): College coursework at Lane Community College and Eastern Oregon State University.

Professional Registration/Certification: Qualified "C-Faller" for ODF; NFPA Instructor I/II

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: City of Pendleton

Signature of Instructor: _____ Date: 1/5/2023

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