

TRAINING AGENDA

CLASSROOM LECTURES AND DEMONSTRATIONS

Training information and presenters from Safety & Risk Services.

1. PCC Confined Space Entry Plan – a summary of the Oregon OSHA Standard (OR-OSHA), Confined Space flow chart, and the system for controlling exposures that are the background for the PCC Confined Space Entry Plan (Plan).
2. OR-OSHA Definitions – a review of key definitions critical to understanding the Plan:
 - a. Confined Space
 - b. Permit Required Space
 - c. Hazardous Atmosphere
 - d. Engulfment
 - e. Other Recognized Hazards
 - f. Alternate Procedures
 - g. Non-Permit
 - h. Entry Supervisor, Attendant, and Entrant.
3. Plan, Procedures, Space Designations, and Permit System – a detailed review
4. Systems Training –Detailed review and practical training on the following systems that require each of the participants to operate and show competency in the systems:
 - a. Air Monitors
 - b. Portable Ventilation Fans
 - c. Portable Guardrails
 - d. Proper Use of Ladders in Confined Spaces: both fixed and portable
 - e. Safe setup and use of the Rescue and Retrieval procedures including the use of the Tripod Rescue Equipment and the Class II Fall Arrest Harness
 - f. Proper Donning and Use of Required PPE
 - g. Welding
 - h. Signs and Communication Systems
5. Practical Demonstration – This encompasses a participant’s actual entry into a confined space including his or her demonstration of knowledge of all required safety equipment and permits.
6. Written Competency Test and Demonstration Exercise – Participants must pass the written test and demonstration exercise to show that they are competent in Confined Space Entry procedures as an Entrant Supervisor.

1. FMS employees can ONLY enter permit required confined spaces under which of the following circumstances:
 - a. In an emergency (e.g. leaking water pipe) any FMS employee can enter a permit required confined space.
 - b. If the employee has received on-the-job instructions from another more experienced FMS employee.
 - c. If the employee attended confined space training with their last employer/trade union hall and is very experienced.
 - d. If the employee has been authorized by their manager, has successfully completed PCC confined space training, and all of the entry procedures have followed.
 - e. All of the above are correct.

2. A confined space can be identified by which of the following means?
 - a. The space is listed on the **PCC Confined Space Plan Index**.
 - b. The space is not on the **PCC Confined Space Plan Index**, but is large enough for the whole body to enter and work and has a limited means of entry or exit and is not designed for continuous occupancy.
 - c. Asking another employee.
 - d. The space has a sign posted that states, "DANGER of Confined Space"
 - e. Either a, b, or d.

3. If a permit required confined space meets the alternate entry criteria all of the following requirements must be followed EXCEPT:
 - a. The entry supervisor must complete the **PCC Confined Space Entry Permit/Alternate Entry Form**.
 - b. The internal atmosphere must be tested before entry and continuously during entry.
 - c. Entrant enters attached to the tripod rescue device.
 - d. A standby attendant must be in place.
 - e. The entry supervisor must inform Public Safety dispatch regarding entry time, so they are prepared to provide medical assistance in the event of an incident.
 - f. Continuous forced air ventilation.

4. PCC employees are responsible for which of the following requirements while supervising contractor/non-PCC employee entry into confined spaces:
 - a. Lend the contractor/non-PCC employee our confined space equipment such as air monitor and air blower.
 - b. Brief (before entry) and debrief (after entry) the contractor/non-PCC employee on the conditions of the confined space using the **PCC Confined Space Entry Permit/Alternate Entry Form**.
 - c. Ensure the contractor/non-PCC employee completes their organization's Confined Space Permit.
 - d. Ensure the contractor/non-PCC employee has been trained in OR-OSHA confined space requirements.
 - e. All of b,c, and d.

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4. How can it be verified that a PCC employee has met the training requirement for confined space entry?
 - a. Associate Managers maintain a list of all FMS employees that have completed the requisite training and are authorized to serve in role of entrant, standby attendant or entry supervisor.
 - b. The employee attended department annual OSHA training because confined space was included as one of the topics
 - c. The employee attended **PCC New Employee Safety Orientation**.
 - d. The employee took an online confined space course at PCC a couple of years ago.

5. Completed **Confined Space Entry Permits/Contractor Notification Forms** must be turned into:
 - a. Safety & Risk Services
 - b. FMS Associate Manager for the zone in which the confined space entry occurred.
 - c. Kept in files in my desk until someone asks me for it.
 - d. Turned into Oregon OSHA.
 - e. Both a. and b.

6. Climbing two steps down a fixed ladder into a vault that is classified as a permit required confined space to get a better look at the conditions would be considered a confined space entry subject to all confined space entry procedures.
 - a. True
 - b. False

7. The tripod wrench rescue system must be used to enter a full permit required space if the space is greater than:
 - a. 10 feet deep
 - b. 8 feet deep
 - c. 5 feet deep
 - d. 3 feet deep
 - e. None of the above

8. The tripod wrench rescue system must be inspected:
 - a. Prior to use
 - b. Once a year
 - c. Once a month
 - d. After use
 - e. Both a. and b.

9. The personal protective equipment required to enter a confined space.
 - a. Safety glasses, gloves, and a half face respirator.
 - b. Will be listed on the **Confined Space Entry Permit/Contractor Notification Form**.
 - c. Hard hat and safety glasses.
 - d. None of the above are correct.

10. The Altair 4X gas monitor used at PCC to monitor the atmosphere of a confined space measures:
 - a. Combustible gases, O2, CO2, H2S
 - b. Combustible gases, O2, CO, H2S
 - c. Combustible gases, O2, CO, CH4
 - d. Combustible gases and dust, O2, CO

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- e. None of the above are correct
11. A bump test is required before using the Altair 4X gas monitor each time to ensure
 - a. The sensors are working correctly and will alarm when required.
 - b. The gas monitor's accuracy.
 - c. To make sure the gas monitor's battery is sufficiently charged.
 - d. To make sure the gas monitor is set to fresh air.
 - e. All of the above are correct.
 12. A standby attendant should immediately investigate **any** alarm of the Altair 4X gas monitor when worn by confined space entrant during confined space work because it could indicate an unsafe condition.
 - a. True
 - b. False
 13. A successfully completed bump test will be indicated on the Altair 4X gas monitor by:
 - a. The alarm display will be a solid green light.
 - b. "Bump pass" will appear on the screen in upper right hand corner for 4 hours.
 - c. A check mark symbol will appear on the screen in the upper right hand corner for 4 hours.
 - d. A heart symbol will appear on the screen in the upper right hand corner for 4 hours.
 14. The Galaxy test system will automatically send the Altair 4X gas monitor into calibration mode if the bump test fails.
 - a. True
 - b. False.
 15. If the Altair 4x gas monitors fails calibration ____ time(s) then the monitor cannot be used and Safety & Risk needs to be contacted.
 - a. 4 times
 - b. 3 times
 - c. 2 times
 - d. 1 time
 16. If the gas monitor does not alarm during initial atmosphere monitoring of a space listed as a permit/alternate on the PCC Confined Space Index then
 - a. Continuous forced ventilation is not necessary, but the entry supervisor must still complete the **Confined Space Entry Permit/Contractor Notification Form**.
 - b. The space can be reclassified as non-permit because the only hazard of an alternate entry space is an atmospheric hazard.
 - c. Contact Safety & Risk Services because the classification of the space is incorrect.
 - d. The gas monitor's result doesn't change anything. Proceed with following the alternate entry procedures including continuous forced ventilation as long as no other new hazards have been noticed.
 17. Both permit/alternate entry procedures has three entry team roles: entry supervisor, standby attendant, and entrant. Which of the following is **NOT** an acceptable staffing arrangement at PCC?
 - a. A trained, authorized PCC employee can serve as entry supervisor/standby attendant while another trained, authorized PCC employee serves as entrant.
 - b. A trained, authorized PCC employee can serve as entry supervisor/entrant while another trained, authorized PCC employee serves as standby attendant.
 - c. Three trained, authorized PCC employees are required to fill each entry team position.
 - d. Both a. and b. are not acceptable staffing arrangements.

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18. If the standby attendant notices that an entrant in an alternate entry confined space that is under continuous forced ventilation has passed out in the confined space.
 - a. Call Public Safety and wait for help.
 - b. Call Public Safety and proceed with rescuing the entrant because the space is ventilated.
 - c. Call 911.
 - d. None of the above is correct.
19. If entering a non-permit required confined space then the **Confined Space Entry Permit/Contractor Notification Form** doesn't need to be completed.
 - a. True
 - b. False.
20. An entrant into a permit required/ alternate entry confined space must immediately leave the confined space if:
 - a. The gas monitor alarms.
 - b. The air blower turns off.
 - c. Water starts filling up the space.
 - d. The standby attendant has to go use the bathroom.
 - e. An unexpected hazard is noticed.
 - f. Any of the above situations

Trainee Name: _____ **Training Date:** _____

Position Certifying:

- Project Manager (written test only and understanding of contractor host duties)
- Entry Supervisor (written test and practical demonstration of duties)
- Safety (Standby) Attendant (written test and practical demonstration of duties)
- Entrant (written test and practical demonstration of duties)

Name of Trainer(s) Certifying Employee have Completed the Proficiency Testing: _____

Proficiency Practical Demonstration is to ensure that the employees whose work may involve entry into confined spaces has acquired the understanding, knowledge, and skills necessary for the safe performance of the duties assigned under PCC’s confined space plan.

The following table provides key duties by each role. Comments should be added to each section as appropriate.

Topic	Entrant	Attendant	Entry Supervisor	Project Mgr
Understands PCC confined space policy and how it relates to outside contractor’s performing work in PCC Confined Spaces			X	x
Know the hazards that may be faced during entry, including information on the mode, signs or symptoms, and consequences of the exposure;	x	x	x	x
Is aware of possible behavioral effects of hazard exposure in authorized entrants;		x		
Properly use safety equipment as required by permit.	x	x	x	

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Topic	Entrant	Attendant	Entry Supervisor	Project Management
Communicate with the attendant as necessary to enable the attendant to monitor entrant status and to enable the attendant to alert entrants of the need to evacuate the space as required by paragraph (i)(6) of this section;	x	x		
Alert the attendant whenever: <ul style="list-style-type: none"> • The entrant recognizes any warning sign or symptom of exposure to a dangerous situation, or • The entrant detects a prohibited condition; and • Exit from the permit space as quickly as possible whenever: • The entrant recognizes any warning sign or symptom of exposure to a dangerous situation, • The entrant detects a prohibited condition 	x	x		
Continuously maintains an accurate count of authorized entrants in the permit space and ensures that the means used to identify authorized entrants		x		
Remains outside the permit space during entry operations until relieved by another attendant;		x		
Monitors activities inside and outside the space to determine if it is safe for entrants to remain in the space and orders the authorized entrants to evacuate the permit space immediately if space is no longer safe.		x		

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Topic	Entrant	Attendant	Entry Supervisor	Project Management
Summon rescue and other emergency services as soon as the attendant determines that authorized entrants may need assistance to escape from permit space hazards;		X		
Warn the unauthorized persons that they must stay away from the permit space;		X		
Advise the unauthorized persons that they must exit immediately if they have entered the permit space; and		X		
Inform the authorized entrants and the entry supervisor if unauthorized persons have entered the permit space;		X		
Performs non-entry rescues as specified by the employer's rescue procedure; and		X		
Performs no duties that might interfere with the attendant's primary duty to monitor and protect the authorized entrants.		X		
Verifies, by checking that the appropriate entries have been made on the permit, that all tests specified by the permit have been conducted and that all procedures and equipment specified by the permit are in place before endorsing the permit and allowing entry to begin;			X	
Terminates the entry and cancels the permit as required by policy			X	
Verifies that rescue services are available and that the means for summoning them are operable;			X	

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Topic	Entrant	Attendant	Entry Sup	Project Management
Removes unauthorized individuals who enter or who attempt to enter the permit space during entry operations;		x	x	
Determines, whenever responsibility for a permit space entry operation is transferred and at intervals dictated by the hazards and operations performed within the space that entry operations remain consistent with terms of the entry permit and that acceptable entry conditions are maintained.			x	x
Understand and can properly prepare confined space entry permit			x	

EMPLOYEE IS CERTIFIED AS COMPETENT FOR THE FOLLOWING DUTIES:

- Project Manager (written test only and understanding of contractor host duties)
- Entry Supervisor (written test and practical demonstration of duties)
- Safety (Standby) Attendant (written test and practical demonstration of duties)
- Entrant (written test and practical demonstration of duties)

EMPLOYEE SIGNATURE: _____ **DATE:** _____

TRAINER CERTIFYING NAME/SIGNATURE: _____ **DATE:** _____