

Confined Space Entrant and Attendant

Klamath County Fire District #4

Rev January 10

Name: _____

Date: _____

Exam was graded by _____

To pass you must receive a score of 75% that equals 41 correct questions.

Your score was _____% _____ questions missed

1. What are the three characteristics of a confined space?

2. If a confined space has one of any of the following it is considered a “permit entry” confined space.

3. List three examples of confined spaces that could be in our Fire District.

4. _____ is the most common cause of death and injury in a confined space.

5. _____ is the most common cause of asphyxiation in a confined space.

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6. Accident studies show most people get into trouble because they don't recognize the hazards in a confined space. List four other hazards that may be present in a permit entry confined space.

7. Regulations require employers, or owners of a space, to ...

- Identify the permit entry spaces and assess the _____
- Determine a plan for _____ the hazards.
- Issue a _____ to authorize an entry into the space.

8. There are several requirements that must be included on an entry permit, which two are missing?

- Location of confined space.
- Date and time and duration of entry.
- Names of authorized entrants and attendants.
- _____
- _____
- Results of air quality and the names of the people performing the tests.
- Type of work to be done.
- Emergency phone numbers or methods of contacting a rescue team.
- Name signature and title of supervisor authorizing entry.

9. A hot work permit specifies special steps needed to reduce hazards during what kind of work?

10. List three examples of actions to remove hazards that hot permit may include.

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11. The definition of an entrant is anyone who..._____

_____.

12. The responsibilities of an entrant is as follows:

- Know the _____
- Understand and be able to use all appropriate _____
- Stay in contact with _____
- Alert the attendant to any hazard that is _____
- Instantly obey orders to _____

13. An attendant must:

- Know the _____
- Keep count of the workers in the space and _____
- Stay in contact with _____
- Do not leave the entrance to the space unless _____
- Do not enter the space, even to _____

14. Other roles that may be employed in a confined space program are:

1. _____
2. _____
3. _____

15. Isolation of hazards refers to the practice of _____

CHAPTER 2

16. Blanking and bleeding is done on what type of power source?

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17. Briefly describe the difference between heat exhaustion and heat stroke.

18. How can noise hazards be eliminated?

19. The safest atmosphere is one that is?

20. The composition of air is made up of what?

21. Confined spaces generally have _____ air circulation.

22. A stratified atmosphere is one that can have _____
_____ within the same space.

23. What are the types of hazardous atmospheres?

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24. Vapor density measures the weight of the gas in _____

25. If "normal air" has the vapor density of one (1), and a gas has a vapor density greater than air the gas will _____

26. If the vapor is lighter than air, the number value for the vapor density is it greater than or less than one? _____

27. Briefly explain why occupying the space can cause a decrease in O₂ .

28. T/F The human senses can safely detect a hazardous atmosphere.

29. What do the letters IDLH stand for?

30. What percentage of oxygen is considered too low or deficient and needs respiratory protection. _____.

31. List and explain a cause for oxygen deficiency.

32. List the symptoms the body shows when exposed to an oxygen level of 8-10%

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33. What state does material burn?

34. What effects the amount of vapors released from a liquid fuel?

35. An order to evacuate the space must be given when any of the following occurs:

- The oxygen level is not between _____ & _____.
- The level of combustion is above _____
- Concentration of H₂s rises above _____ PPM
- Conditions outside the space _____
- Entrants show signs of _____
- Conditions arise that are not on the _____
- The _____ must leave.

36. Compliance with a written confined space entry permit, must follow the following:

- Do the _____ align with what is known about the space?
- Does the _____ available address all the hazards?
- Have the _____ been made available and have they been inspected?
- Do the _____ and _____ have the proper training?
- Have the _____ equipment been calibrated.
- Has the space been adequately ventilated? The rule is _____ exchanges of air (not less than _____ minutes)

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37. At the first sign of danger or changing conditions, the attendant should take the appropriate action. These actions may include:

38. Who cancels the permit when the entry is complete?

39. List three considerations when placing a ventilator fan.

40. Explain a supplied air respirator.

41. Air purified respirators are limited in what ways?

42. What are the three types of respiratory protections?

43. When testing air quality what level should be assessed first? _____

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44. What process should be done to be sure that stratification has not hidden hazards.

45. Explain briefly the process for zeroing the air monitor used by the Fire District.

46. What are the definitions and meanings of the following acronyms?

➤ PEL

➤ TWA

➤ TLV

➤ STEL

➤ Ceiling Concentration

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47. H₂S diminishes the person's ability to _____.
Therefore the nose is not a valid detection method.

48. List three characteristics of Carbon Monoxide gas.

49. Toxic atmospheres exist whenever...

50. Fuels can burn only if the fuel air mixture is

51. Unsafe atmosphere as it applies to flammability is _____% of the LEL.

52. If the monitor reads 100% of the LEL, that means the fuel air mixture is at:

53. To burn an atmosphere must have what three things?

54. Fuel can come in two forms, gasses (or vapors), and _____

55. T / F In an oxygen deficient atmosphere it is best to ventilate with pure oxygen.