

Health and Safety Meeting Quiz

Subject: Excavation Safety

Date: June 21, 2010

1. At what distance must materials, equipment, and excavation spoils remain from the edge of the excavation if a retaining system is not implemented?
 - A. 5'
 - B. 6'
 - C. 2'
 - D. None of the above; it is irrelevant.
2. Walkways will be provided where employees or equipment are required or permitted to cross over excavations. Guardrails will be provided where walkways are 4 feet or more above lower levels.
 - A. True
 - B. False
3. At what depth will protection be provided for employees if it is anticipated for them to enter the excavation?
 - A. 5'
 - B. 6'
 - C. 3'
 - D. 4'
4. Besides shielding and support systems, what other means offers protection for employees who enter the excavation?
 - A. Rescue equipment
 - B. Dinah Shoring
 - C. Johnny Benching
 - D. Sloping and Benching
5. For sloping and benching, Class C soil will have the ____ angle from horizontal.
 - A. Greatest
 - B. Smallest
6. What is the most common and severe hazard during excavations?

- A. Electrocution
 - B. Hazardous atmospheres
 - C. Cave-ins
 - D. Hazardous stratospheres
7. Inspections of excavations, the adjacent areas, and protective systems will be conducted:
- A. Daily
 - B. By a competent person
 - C. After rainfall or other hazardous occurrence increase
 - D. Only if employees exposure to hazards is anticipated (entry)
 - E. A, B, and C
 - F. All of the above
8. The top edge of a shielding protection system must extend how far above the trench?
- A. 16 inches
 - B. 1.5 feet
 - C. 18 feet
 - D. 8 inches
9. A means of egress will be located in trench excavations that are ___ feet or more in depth and limit the length of travel to ___ feet.
- A. 25', 4'
 - B. 6', 50'
 - C. 4', 25'
 - D. 4', 50'
10. For excavations greater than 4' in depth where hazardous atmospheres exist, or are expected to exist, atmospheric monitoring must be conducted prior to excavation entry. What defines a hazardous atmosphere?
- A. Less than 23.5% oxygen, exceeding the permissible exposure limit (PEL), and/or flammable gas concentration greater than 20% of the lower explosion limit.
 - B. Less than 19.5% oxygen, exceeding the permissible exposure limit (PEL), and/or flammable gas concentration greater than 20% of the lower explosion limit.

- C. Greater than 19.5% oxygen, exceeding the permissible exposure limit (PEL), and/or flammable gas concentration greater than 20% of the lower explosion limit.
- D. Less than 19.5% oxygen, exceeding the permissible exposure limit (PEL), and/or flammable gas concentration greater than 10% of the lower explosion limit.