

Name _____ Date _____

Pre-Test and Post-Test Solutions for Excavation and Trench Safety

Q1: Who is responsible for providing necessary excavation safety training for employees?

- (a) OSHA
- (b) Employers
- (c) Employees
- (d) Competent person
- (e) Labor union

Q2: Which two statements are false?

- (a) Excavation sites should be inspected by a competent person after every rainstorm
- (b) Employers can remove workers from hazardous excavation area, but a competent person cannot authorize excavation work to stop
- (c) If a construction worker notices possible trench collapse hazards in a trench, he/she should leave the trench as soon as possible, since trench collapse happens suddenly
- (d) If a construction worker sees a trench collapse, he/she needs to immediately enter the trench to rescue the trapped or buried workers
- (e) Essentially all trench accidents are preventable through strict compliance with OSHA standards

Q3: What is the greatest hazard construction workers face when excavation or trenching?

- (a) Hazardous atmospheres
- (b) Cave-ins
- (c) Falls
- (d) Exposure to falling objects
- (e) Electrocution or explosion

Q4: What soil has the smallest horizontal angle for sloping or benching protection?



- (a) Class A
- (b) Class B
- (c) Class C
- (d) Stable Rock

Q5: In order to quickly exit, at what depth of trenches a ladder or ramp should be present?

- (a) 4 feet
- (b) 5 feet
- (c) 10 feet
- (d) 12 feet

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Q6: Unless made in stable rock, at what depth is a protective system required for a trench?

- (a) A protective system is never required in trenches
- (b) 5 feet deep or greater
- (c) Any depth if the competent person says so
- (d) Both (b) and (c)

Q7: Which two statements are false?

- (a) The top edge of a shielding protection system must be above trench edge
- (b) For safety consideration, excavations should be kept open the minimum amount of time
- (c) It is safe to work in a trench with some standing water
- (d) Construction workers are dangerous under loads handled by lifting equipment
- (e) Under a cubic yard of soil, a construction worker may easily move and escape
- (f) Vibrations from nearby excavator may cause trench collapse

Q8: What is the minimum distance that excavated soils must be kept from the edge of excavation?

- (a) As close to the edge as possible for ease of use
- (b) 1 feet
- (c) 2 feet
- (d) 7.5 feet
- (e) 25 feet

Q9: Name three major types of protective systems in excavation and trench work.

- (a) Sloping
- (b) Shoring
- (c) Shielding
- (d) Ladders
- (e) Hard Hats

Q10: What works need to be done before starting to excavate?

- (a) Evaluate soil type
- (b) Construct protective systems
- (c) Provide safe in and out access
- (d) Prepare an emergency rescue plan
- (e) All of the above