Quiz: Entrapment/Engulfment Hazards

Fill in the blank with the correct answer.

1. __________________ grain acts like quicksand.

2. Examples of a(n ) __________________ grain hazard are grain falling from the side of a bin or a grain tower collapse.

3. How much force is against a 165 pound person who is engulfed over his/her head?
   a. 330
   b. 625
   c. 900
   d. 1065

4. What are 3 ways for any trained worker entering a grain bin to avoid entrapment?
   a. Lock out/tag out equipment; lock the entrance; have an observer outside
   b. Lock out/Tag out equipment; use a lifeline; have an observer outside
   c. Use a lifeline; stay away from the center; have an observer outside
   d. Use a lifeline; stay away from the center; lock the entrance

5. Lock out/Tag out prevents others from turning on equipment.  TRUE  FALSE

6. Bridged grain can be seen before entering a grain bin.  TRUE  FALSE

7. In good condition grain, a person should sink about 12 inches when walking.  TRUE  FALSE
Quiz: Entrapment/Engulfment Hazards

ANSWER KEY

Print Name

Class/Period

Date

Fill in the blank with the correct answer.

1. __Flowing__ grain acts like quicksand.

2. Examples of a(n) __avalanche__ grain hazard are grain falling from the side of a bin or a grain tower collapse.

3. How much force is against a 165 pound person who is engulfed over his/her head?
   a. 330
   b. 625
   c. **900**
   d. 1065

4. What are 3 ways for any trained worker entering a grain bin to avoid entrapment?
   a. Lock out/tag out equipment; lock the entrance; have an observer outside
   b. Lock out/Tag out equipment; use a lifeline; have an observer outside
   c. Use a lifeline; stay away from the center; have an observer outside
   d. Use a lifeline; stay away from the center; lock the entrance

5. Lock out/Tag out prevents others from turning on equipment. **TRUE** **FALSE**

6. Bridged grain can be seen before entering a grain bin. **TRUE** **FALSE**

7. In good condition grain, a person should sink about 12 inches when walking. **TRUE** **FALSE**
Quiz: Entanglement Hazards

Print Name ___________________________  Class/Period ___________________________  Date ___________________________

1. Belts, pulleys, and gears are examples of a ___________________________ point hazard.

2. Other hazards of rapidly moving or rotating machine parts are lack of visibility and ___________________________ objects.

3. In ¾ second, a PTO rotating at 540 rpm can wrap a person
   a. 5.25 feet
   b. 7 feet
   c. 9.75 feet
   d. 13 feet

4. What are the four types of machinery hazards?
   a. Cut/Shear point, Pinch/Nip point, Pull-in point, Stab point
   b. Cut/Shear Point, Pinch/Nip point, Pull-in point, Wrap point
   c. Cut/Shear point, Pull-in point, Stab point, Wrap point
   d. Pinch/Nip point, Pull-in point, Stab point, Wrap point

True or False (Choose the ONE best answer).

5. A piece of plywood over an auger is proper guarding.  TRUE   FALSE

6. A person should wear tightfitting clothing around a PTO and auger.  TRUE   FALSE

7. It is safe to use a stick to clear out caught material in a combine or harvester when it is running.  TRUE   FALSE
## Quiz: Entanglement Hazards ANSWER KEY

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1. Belts, pulleys, and gears are examples of a **pinch or nip** point hazard.

2. Other hazards of rapidly moving or rotating machine parts are lack of visibility and **thrown** objects.

3. In \( \frac{3}{4} \) second, a PTO rotating at 540 rpm can wrap a person
   - a. 5.25 feet
   - b. 7 feet
   - c. 9.75 feet
   - d. 13 feet

4. What are the four types of machinery hazards?
   - a. Cut/Shear point, Pinch/Nip point, Pull-in point, Stab point
   - b. **Cut/Shear Point, Pinch/Nip point, Pull-in point, Wrap point**
   - c. Cut/Shear point, Pull-in point, Stab point, Wrap point
   - d. Pinch/Nip point, Pull-in point, Stab point, Wrap point

**True or False (Choose the ONE best answer).**

5. A piece of plywood over an auger is proper guarding. **TRUE**  **FALSE**

6. A person should wear tightfitting clothing around a PTO and auger. **TRUE**  **FALSE**

7. It is safe to use a stick to clear out caught material in a combine or harvester when it is running. **TRUE**  **FALSE**