Post Knowledge Survey – 2 Hour

1. T/F The five elements of the explosion pentagon are confinement, saturation, oxygen, dust, and ignition.

2. Good housekeeping practices include all but the following:
   a. Auditing of employee behavior
   b. Addressing hidden areas
   c. Taking appropriate measures to control dust
   d. Training employees on the importance of mitigating dust

3. T/F: Dust serves as the ignition source in an explosion. (False)

4. Which types of equipment can reduce grain dust during unloading?
   a. Cyclones, dead boxes, and fabric filters
   b. A slope of more than 30 degrees for free flowing grain
   c. Closed receiving areas so the wind cannot disturb the dust
   d. A narrow diameter to increase speed

5. Avoid grain turbulence at grain transfer points by:
   a. Unloading grain very slowly
   b. Using a baffle or other strategy to direct the grain flow
   c. Unloading grain inside a closed building
   d. Turning off any dust collection system to not lose any material

6. T/F: Bucket elevators should be placed as close to outside walls as possible.

7. Effective dust collection systems include which of the following:
   a. Low suction system pressures
   b. Limited maintenance
   c. Extensive duct work
   d. Dust aspiration or ventilation systems at grain transfer points

8. T/F: Controlling ignition is the only way to avoid dust explosions.

9. T/F: Sweeping dust is one way to prevent dust accumulation.

10. T/F: Dust control systems can run indefinitely with little maintenance needed.

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