

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.