

## 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. (False)
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. (False)
9. T/F: Sweeping dust is one way to prevent dust accumulation. (True)
10. T/F: Dust control systems can run indefinitely with little maintenance needed. (False)