

Post Knowledge Survey

1. T/F The five elements of the explosion pentagon are confinement, saturation, oxygen, dust, and ignition.
2. Pressures from an explosion with corn dust can be greater than _____ psig:
 - a. 25 psi
 - b. 6 psi
 - c. 100 psi
 - d. 35 psi
3. T/F: Dust aspiration systems are an example of a good housekeeping practice.
4. Well-designed spouts include:
 - a. Openings to vent dust
 - b. A slope of 30 degrees for free flowing grain
 - c. Replaceable liner material
 - 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 must have explosion relief panels on outside legs.
7. Dust explosion protection options include:
 - a. Containment
 - b. Deflagration Venting
 - c. Suppression
 - d. Deflagration isolation
 - e. All of the above
8. T/F: Explosion suppression systems can suppress an explosion within 8 milliseconds.
9. T/F: Mechanical isolation systems use fast acting valves to contain the flames.
10. T/F: Suppression systems must be inspected every 3 months.