

## 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** Good housekeeping practices include maintaining dust aspiration systems.
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 80 seconds
9. **T/F** Mechanical isolation systems use fast acting valves to contain the flames
10. **T/F** Suppression systems have to be inspected every 3 months