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.

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