Preventing Dust Explosions Quiz

Name:	Date:
Multipl	Choice (circle the correct answer):
1.	Which elements are needed for a grain dust explosion?
	a. Combustible dust, dispersion, oxygen, ignition source, containment
	b. Dispersion, combustible dust, Carbon Dioxide, ignition source
Multiple	c. Oxygen, suppression system, dispersion, combustible dust
	d. Containment, dispersion, nitrogen combustible dust
2.	According to OSHA's Grain Handling Standard 1910.272, preventive maintenance certification records must include:
	a. The date of inspection, name of person inspecting equipment, serial number or other equipment identifier
	b. Date of inspection, name of facility manager, serial number, date of manufacture
1. 2. 3. True or 4. 5. 6. 7. 8. 9.	c. Date of manufacture, date of installation, facility manager
	d. Equipment speed, date of installation, date of inspection, facility manager
3.	Grain dust explosion ignition sources may include:
	a. Hot work, damaged grain, mineral oil
1. 2. 3. True or 4. 5. 6. 7. 8. 9.	b. Frictional heat from machine parts, hot work, faulty electrical equipment
	c. Hot work, mineral oil, faulty electrical equipment
	d. Explosion suppression equipment, explosion venting, hot work
True or	ialse:
4.	Class II hazardous locations are those that are hazardous because of the presence of combustible dust.
1. 2. 3. True or 4. 5. 6. 7. 8. 9.	OSHA's Grain Handling Standard (1910.272) requires that fabric dust filter collectors, which are a part of
	pneumatic dust collection system, be equipped with a monitoring device that will indicate a pressure drop across the
	surface of the filter.
6.	OSHA's Grain Handling Standard (1910.272) requires a written housekeeping program that establishes th
	frequency and methods for removing fugitive grain dust on ledges, floors, equipment and exposed surfaces.
Multiple 1. 2. 3. True or 4. 5. 6. 7. 8. 9.	OSHA's Grain Handling Standard (1910.272) requires that fugitive grain dust accumulations exceeding
	1/16 inch within 35 feet of inside bucket elevators be removed immediately.
8.	According to OSHA's Grain Handling Standard (1910.272), grain and product spills are considered fugitive
	grain dust accumulations.
9.	According to OSHA's Grain Handling Standard (1910.272), an inside bucket elevator has the boot and
	more than 40% of the total leg height (above grade or ground level) inside the grain elevator structure.
10.	According to OSHA's Grain Handling Standard (1910.272), the employer is responsible for informing
	contractors performing work at the grain handling facility of known potential fire and explosion hazards related to the

contractor's work and work area.

Quiz Key

- 1. A
- 2. A
- 3. B
- 4. True
- 5. True
- 6. True
- 7. False 1/8 inch
- 8. False
- 9. False (20%)
- 10. True