

MACHINE GUARDING

QUIZ KEY

1. An in-running nip point is created by:
 - a. **Two rotating parts turning towards each other**
 - b. ~~Two rotating parts moving in different directions on the same plane~~
 - c. ~~Two parts moving in the same direction on the same plane~~
2. Which of the following is an example of reciprocating motion?
 - a. ~~A chain moving over sprockets~~
 - b. **A part moving back and forth on one plane**
 - c. ~~Two sprockets moving together~~
 - d. ~~A circular motion of any moving part.~~
3. Which of the following is NOT a characteristic of a good machine guard?
 - a. ~~Create no new hazards~~
 - b. ~~Cannot be bypassed~~
 - c. **May be readily removed**
4. You need to select a machine guard for a point of operation. Which of the following is the best option?
 - a. ~~Removable barrier guard~~
 - b. **Fixed barrier guard**
 - c. ~~Two hand pullbacks~~
 - d. ~~Light curtain~~
 - e. ~~Pressure sensing mat~~
5. If you are allowed to use compressed air to clean machinery, you must reduce the air pressure to to:
 - a. **30 psi** (You must reduce the air pressure to 30 psi or less. Be sure to use an OSHA-compliant air gun.)
 - b. ~~45 psi~~
 - c. ~~50 psi~~
 - d. ~~60 psi~~
6. When two operators are working on the same machine, which of the following is true?
 - a. ~~Only one E-stop is required~~
 - b. **Each operator should have an E-stop**
 - c. ~~Two hand controls may replace the E-stop~~
 - d. ~~If a fixed barrier guard is present, an E-stop is not needed~~
7. On a bench-top grinder, the work/tool rest and the rotating abrasive wheel create a:
 - a. **Nip point**
 - b. ~~Shearing point~~



- ~~e. Transverse motion~~
 - ~~d. Reciprocating motion~~
8. Moving parts located less than ____ feet above the floor must be guarded.
- ~~a. 12~~
 - ~~b. 10~~
 - ~~c. 8~~
 - d. **7** (All machine moving parts located less than 7 feet above the floor must be guarded.)
9. A properly functioning E-stop will:
- ~~a. Allow a machine to re-start automatically after a power failure~~
 - b. **Not allow a machine to re-start automatically after a power failure**
 - ~~c. Be adjustable to allow a machine to restart when the power comes back on~~
 - ~~d. Automatically turn off the machine after a certain number of hours.~~
10. Two-hand controls are an example of a:
- ~~a. Machine guard~~
 - b. **Safety device**
 - ~~c. Work speed control~~
 - ~~d. Work flow planning~~
11. A shield is a type of fixed barrier guard
- ~~a. True~~
 - b. **False**
12. Which of the following may place a worker at risk of entanglement? (check all that apply)
- a. **Long hair or beard**
 - b. **Gloves**
 - c. **Loose jewelry**
 - d. **Apron, untied or tied in front**
13. Which of the following parts of a machine should be guarded? (check all that apply)
- a. **The power transmission**
 - b. **The point of operation**
 - c. **The feed mechanisms**
 - d. **The lead screw on a lathe**
14. Which of the following are NOT an effective means of guarding the point of operation? (check all that apply)
- a. **A warning sign**
 - ~~b. A light curtain~~
 - ~~c. A barrier guard~~
 - d. **A pressure-sensitive mat**

