

Each question has only ONE correct answer.

- 1. All of the following are the attributes of a proper machine guard EXCEPT:**
 - a) Prevents hands and other body parts from contacting moving parts
 - b) Cannot be easily removed without tools
 - c) Holds the stock in place
 - d) Creates no new hazards

- 2. What is the main advantage of a fixed guard?**
 - a) The operator does not need to inspect the guard
 - b) It is a permanent part of the machine that cannot be easily bypassed
 - c) It provides adequate protection when defective or damaged

- 3. Two-hand controls are an example of a:**
 - a) Device
 - b) Procedure
 - c) Guard
 - d) LOTO

- 4. Complete this sentence to make it a “true” statement: A properly designed guard is a fixed guard which ...**
 - a) Can be easily removed
 - b) Requires special tools to be removed
 - c) May be bypassed if it gets in the way of making a part
 - d) Requires frequent adjustments and testing

- 5. A pressure mat is NOT an acceptable way to guard a point of operation**
 - a) True
 - b) False

- 6. When multiple people are operating a press, all of the following are true EXCEPT:**
 - a) Each operator should have an individual set of controls
 - b) One set of controls is adequate as long as the work flow is coordinated
 - c) An emergency stop should be readily accessible to each worker
 - d) If present, foot controls should be guarded to prevent accidental activation

- 7. An interlocking barrier guard shuts off or disengages power and prevents machine start-up when the guard is open.**
 - a) True
 - b) False



- 8. Safety glasses are marked with a stamp on the lens or on the temple. The stamp reads:**
- a) OSHA
 - b) ASE
 - c) Z87
 - d) NIOSH
- 9. If you wear safety prescription glasses in the shop then:**
- a) Side shields are optional
 - b) Side shields must comply with the Z 87 standard requirements
 - c) Side shields must be of clear plastic
 - d) Frames do not need to comply with the Z 87 standard
- 10. In a lockout/tagout program, an “authorized employee” is someone who is trained to:**
- a) Prepare a machine for service or maintenance
 - b) Operate a robot in “training” mode
 - c) Install a new piece of equipment in the shop
- 11. In a lockout/tagout program, you would be considered an “affected employee” if you operate a machine that may be locked or tagged out for maintenance.**
- a) True
 - b) False
- 12. Energy sources to a machine do not need to be locked out if the emergency stop (E-stop) is pushed prior to machine maintenance.**
- a) True
 - b) False
- 13. A lockout/tagout program should include all of the following EXCEPT:**
- a) Employee training
 - b) Locks and tags purchased from OSHA
 - c) Annual updates of lockout procedures
 - d) Lockout procedures for each machine
- 14. Machine guards for mills and drills must prevent eye injuries and comply with the Z 87 standard requirements.**
- a) True
 - b) False
- 15. You may not notice noise-induced hearing loss because it often develops gradually.**
- a) True
 - b) False



- 16. An extremely loud noise cannot damage your hearing after a short exposure.**
- True
 - False
- 17. The severity of hearing loss depends on all of the following EXCEPT:**
- How loud the noise is
 - How long you are exposed to loud noise
 - Whether hearing protection is worn correctly and consistently
 - Whether noise exposure is at home or at work
- 18. What is the purpose of power outage protection?**
- Keeps the machine operating even when shop loses power
 - Prevents the machine from automatically restarting when power is restored
 - Assures that critical machinery remains operational at all times
- 19. Compressed air should not be used for cleaning EXCEPT where the pressure is reduced to less than 30 p.s.i. and then only with effective chip guarding and personal protective equipment.**
- True
 - False
- 20. Lifting objects heavier than 50 pounds without assistance puts you at high risk for:**
- Carpal tunnel
 - Back injury
 - Conjunctivitis
 - Tendonitis
- 21. It is safe to remove chips from a machine while it is operating if you wear gloves to protect your hands from being cut or burned.**
- True
 - False
- 22. Unrestrained long beards are not permitted in a machine shop because:**
- They make you hot
 - They affect your speech
 - They are an entanglement hazard
 - They make a person hard to see
- 23. Poor housekeeping habits that are also safety hazards include all of the following EXCEPT:**
- Oil on the floor around machines and in the aisles
 - Piles of rags soaked with combustible materials
 - Cluttered work areas
 - Articles stored on shelves
 - Tools lying on the floor



- 24. Coolants and cutting oils may cause which of the following health problems?**
- a) Skin rash and lung problems
 - b) Kidney and liver disease
 - c) Nerve and liver injury
 - d) Skin rash and liver disease
- 25. How many of the emergency exits must be labeled with an illuminated exit sign?**
- a) At least half of them
 - b) None of them
 - c) Only the ones required by the fire inspector
 - d) All of them
- 26. Emergency exits can be locked during business hours if the key is kept in the nearby office**
- a) True
 - b) False
- 27. All of the following will help you avoid back injuries when lifting EXCEPT:**
- a) Sharing the load with another person
 - b) Bending your knees and using your legs to help
 - c) Avoiding twisting while holding the load
 - d) Leaning forward and reaching
- 28. A ground fault circuit interrupter (GFCI) is required when using an electric tool in a wet area because it will:**
- a) Protect the equipment
 - b) Prevent fires
 - c) Prevent electrocution
 - d) Prevent circuit overheating
- 29. The most important electrical current characteristic that determines the health effects in case of electrocution is:**
- a) Voltage
 - b) Amperage
 - c) Complexity
 - d) Resistance
- 30. What is the correct order of steps to operate a fire extinguisher?**
- a) Squeeze, Aim, Sweep, and Pull
 - b) Pull, Aim, Squeeze, and Sweep
 - c) Pull, Aim, Sweep, and Squeeze
 - d) Sweep, Aim, Pull, and Squeeze



31. You should use water to extinguish a fire involving:

- a) Ordinary combustibles (paper, wood)
- b) Electrical circuits and tools
- c) Flammable liquids (thinners, degreasers)
- d) Metals (magnesium, aluminum)

32. To reduce static electricity buildup when transferring flammable liquids you should do all of the following EXCEPT:

- a) Ground the metal containers
- b) Connect the two containers
- c) Keep the door to the mixing room closed
- d) Place the clamps on a painted part of the container

33. Which of the following is NOT a potential cause of fire in a shop?

- a) Damaged electrical wires
- b) Welding sparks
- c) Open containers of corrosive liquids
- d) Solvent-soaked rags in an open trash can

