

23 METALWORKING MACHINERY

QUIZ 1 (13 POINTS TOTAL)

True/False (3 points)

1. Shaping a rotating piece with a cutting tool, usually to give a circular cross-section, is known as lathing.
 - a. true
 - b. false
2. It is necessary to keep a carbon dioxide foam fire extinguisher in the vicinity of an EDM machine.
 - a. true
 - b. false
3. Abrasive wheels that are not in balance will produce poor work but do not pose a hazard.
 - a. true
 - b. false

Multiple Choice (3 points)

4. What two items of personal protective equipment should all machine tool operators use?
 - a. eye protection with side shields
 - b. gloves
 - c. hearing protection
 - d. protective footwear
5. What is the operation called in which a piece of metal is machined by bringing it into contact with a rotating multi-edged cutter?
 - a. turning
 - b. lathing
 - c. milling
 - d. boring
6. What should be done with a rutted or excessively rough grinding wheel?
 - a. dress it
 - b. true it
 - c. take it out of service
 - d. slot it

Short Answer (5 points)

7. What is metalworking machinery used to do?

8. What speeds do spinning lathes reach?

9. List three operations that are performed with drilling machines.

10. What do grinding machines do?

11. What are common sources of injury to operators of surface grinders?

Short Essay (2 points)

12. What is the difference between planers and shapers?

13. What is the “ring” test for abrasive disks and wheels?

8. What are wire brush wheels used for?

9. Do wire brush wheels present any special hazard?

Short Essay (1 point)

10. What kind of guarding should a circular saw have?