

LOS ANGELES PIERCE COLLEGE
Industrial Technology Department
MACHINE TECHNOLOGY LAB

Name: _____, _____ Semester: Fall Spring _____
Last Name First Name

Address: _____ Home Phone: (____) _____
Number & Street
_____, CA. _____ Age: _____
City Zip

You must pass this safety test before you will be allowed to operate power machines or other hazardous equipment. The purpose of this test is to determine your knowledge of the safety precautions necessary in the use of machines, tools, equipment and materials.

DIRECTIONS: Complete the following statements by printing the correct word or words on the line to the right. The first statement will serve as an example.

1. In case you receive an injury in the shop, you should report it at once to your _____. INSTRUCTOR
2. When in the machine shop you must always protect your eyes by wearing _____. _____
3. Compressed air, when directed at close range to the human body, can cause _____. _____
4. Chips or cuttings must never be removed from a Machine while the machine is in _____. _____
5. Before operating any power machine or dangerous equipment, you must have received adequate _____. _____
6. Before using any power machine, you must get the permission of your _____. _____
7. Anyone who starts or operates a machine tool from which a guard has been removed, is _____ a California State Law. _____
8. If the instructor is out of the room, all power machines must be turned _____

9. All machine "set-ups" must be checked by the instructor before the power is turned _____. _____
10. Guns, shells, fireworks, etc., are not permitted on _____
11. It is best that any liquid spilled on the floor should be wiped up immediately because it may cause someone to _____. _____
12. Chips or cutting should never be removed from the machine with your _____. _____
13. Most accidents are the result of excessive haste and _____

MULTIPLE CHOICE - circle the "best" answer.

14. To remove the chips from the milling machine cutter and job, use:
a. a piece of cloth
b. a piece of cotton waste
c. a brush
d. your hands
15. When placing the cutter on the arbor, hold the cutter with:
a. a pair of pliers
b. a wrench
c. a cloth
d. your hands
16. Never reach over a milling machine to make adjustments.
a. table
b. cutter
c. column
17. If you notice any breakage or damage to a tool, instrument, or machine you should
a. ask an advanced student to repair it
b. be careful when you use it
c. say nothing because you might be blamed
d. notify your instructor
18. All work you plan to do should be approved by the
a. shop foreman
b. instructor
c. safety superintendent
d. student assistant

19. It is best to fasten or remove loose clothing and roll sleeves above your elbows
 - a. before operating any machine
 - b. during the operation of any machine
 - c. after operating a machine
 - d. only when assisting the instructor

20. You should make sure that all students are clear of the machine before turning "ON" the
 - a. power
 - b. coolant
 - c. air
 - d. light

TRUE-FALSE

Mark "T" for true -or- "F" for false, next to the question number.

21. Chips that become tangled can be removed with your fingers if you are careful.

22. It is safe to inspect or measure a job without stopping the machine if the milling table is moved so there is considerable distance between the job and revolving cutter.

23. It is unnecessary to check the direction of rotation of the cutter before a cut is taken.

24. Don't even point your finger towards the revolving cutter at close range.

25. It is OK to push any button on a control panel as you walk past a CNC machine.

26. One person should operate a machine tool at a time.

27. When testing a new tape or program its OK to run at 100% feed rate.

28. The operator of a CNC machine should know where the emergency stop is.

29. Never operate a CNC machine tool with the safety door open.

30. Always make sure your work is securely clamped before starting the machine tool.

31. Always observe all safety warning signs.
32. CNC machine tools can move extremely fast, always keep hands and fingers away from machine area.
33. Never open cabinets to inspect machine operation when machine is on.
34. Undersize or dull tooling is OK to use.
35. Make sure all tooling is properly secured.
36. Keep loose tools away from machine tools.
37. It is always a good idea to operate machine tools at lower feed rates when testing a new program.
38. Proof reading a program isn't necessary.
39. Remove rings and watches to help protect your hands.
40. Safety glasses are not necessary when operating a CNC machine tool because of safety shields.

My eyes are valuable to me and I am the one who has the most to gain in protecting them. I agree to wear safety glasses or other eye protection at all times while in the machine shop. I am aware that if I fail to wear safety glasses while in the shop it will be a direct and willful violation of my instructor's instructions.

This is to certify that I have received instructions on safety precautions in the General Metal Shop.

The instructor has demonstrated to me how to use tools and operate machines, correctly and safely. I promise to observe all safety precautions and if ever in doubt regarding any operation, I will get the necessary information from my instructor.

Signed: _____
(sign your name)

Date: _____

This is to certify that

(Print your name)

has been given safety instruction and safety demonstrations on the use of machines, tools and materials in this shop. He/She has satisfactorily passed this written safety test.

Signed: _____
(Instructor)

Date: _____