Information Section Hand & Power Tools

1. What are the four most common types of screwdrivers?
2. Why do electricians typically prefer straight claws on a hammer?
3. Hammers with a chipped head should be “dressed” on a grinder. True or False?
4. What maintenance is typically required on a pair of pliers?
5. Should pliers be used as a hammer?
6. What are the three types of handles for pliers?
7. What is another name for a hex key wrench?
8. What is the correct direction of force for an adjustable wrench?
9. What type of wrench should not be used on nuts and bolts?
10. What are the two types of hand saws and what is the purpose of each?
11. What is a compass saw? What is it typically used for?
12. What is the length of a standard hacksaw blade?
13. What is the range of teeth-per-inch for a hacksaw blade?
14. Which direction should the teeth point in a properly installed hacksaw blade?
15. What are the main parts of a file? Describe each.
16. List some of the different file types.
17. What is a “safe edge” file?
18. How would you determine the correct size drill bit to use for a tap?
19. How are the chips broken away periodically when using a cutting die?
20. What precaution must be taken when using a metal measuring tape?
21. What are two liquids used for bubbles in levels?
22. What precaution must be taken before using a fuse puller to remove a fuse?
23. What material is used (mainly) for chisels and punches?
24. What are some of the different types of chisels?
25. A chisel or punch with a mushroomed end should be discarded. True or False?
26. Is a steel hammer good for light chisel work?
27. What precaution should be taken when using cable cutters? (Other than make sure power is off)
28. What is the difference between a cable bender and pipe bender for bending wire?
29. What are some rules for stripping wire with a knife?
30. What size hole is cut by a ½” knockout punch?
31. What are the three parts of a knockout punch?
32. Wires being cut with a cutter should be cut diagonally. True or False?
33. Left and Right cut snips are for cutting in the respective direction only. True or False?
34. What misuse of snips will cause a springing of the blades?
35. What are some different types of clamps?
36. What are some misuses of “C” clamps?

Power Tools
1. How should you determine the duty for purchasing a drill?
2. What is the result of not keeping a power tool clean?
3. What are some different types of wood bits?
4. What is the purpose of a carbide-tipped bit?
5. What is a HSS bit? What is one limitation?
6. What is the difference between a percussion and rotary hammer drill?
7. What are the two purposes of cutting oil? What is not a function of cutting oil?
8. What are some features of a drill press compared to a drill?
9. What are some precautions for using a drill press?
10. What are some advantages of hydraulic knockout punches?
11. What are the main parts of hydraulic knockout punches?
12. What is the advantage of motorized hydraulic knockout punches?
13. When should the extra handle be used with a drill?
14. What should be done just before a bit breaks through a surface? Why?
15. What is the proper procedure for drilling a large hole in metal with a HSS drill?
16. What is the reason for not using a hole saw without the centre pilot drill installed?
17. How are circular saws sized?
18. What is the most common application (for an electrician) for a saber saw or jig saw?
19. What are some applications for an electrician to use a hole saw?
20. How many teeth-per-inch are used with reciprocal and saber saws for cutting most types of wood?
21. When cutting with a reciprocal or saber saw, the blade should be placed against the wood before starting the saw. True or False?
22. How are grinders sized?
23. How is a grinder manufactured to prevent the wheels loosening?
24. What precaution should be taken when starting a grinder?
25. What is the speed of portable hand grinders?
26. What PPE is most critical when using a grinder?
27. What two steps should be taken before working on an air fastener?
28. Which end of a quick-connect should be attached to the tool?