Pretest Info Section Power Tools

1. What are the two main tasks for maintaining a drill?

2. What material is drilled using a carbide-tip bit?

3. What is one advantage and one disadvantage of HSS (high speed steel) bits?

4. What are the two main types of hammer drill? Percussion and rotary

5. Cutting oil can be left on tools and equipment as it is also a lubricant. True or False?

6. Why is a drill press an especially dangerous tool?

7. What are some precautions when using a drill press?

8. How should cuttings be removed from the work area when using a drill press?

9. What is the main advantage of hydraulic knockout punches over manual ones?

10. What size hole is made by a ½” knockout punch?

11. What are the main parts of a hydraulic knockout punch?

12. What is the first step when drilling a large hole in thick metal with a HSS bit?

13. What are some advantages of cordless drills over the corded models?

14. Why should a hole saw not be used without the pilot hole drill in the center? (Think about it if you have not had the experience.)

15. When drilling steel with a HSS bit, what should be done just before breaking through the surface?

16. What materials (other than wood) can be cut with a circular saw?

17. What are reciprocating saws typically used for in the electrical field?

18. What are jig saws typically used for in the electrical field?

19. Which drill bit requires the operator to use the auxiliary handle and keep a firm grip on the drill at all times?

20. How are grinders sized?
22. What is the purpose of the course and fine wheels on a grinder?

23. When are problems most likely with a grinder?

24. What is the best protection from sparks and debris when working with a grinder?

25. What is the best protection for working with a small portable hand grinder?

26. What is the typical RPM of portable hand grinders?

27. What checks should be made before connecting pneumatic nailing and stapling tools to a supply?

28. What precautions should be taken before attempting to clear a blockage from a pneumatic tool?

29. What is the minimum recommended pressure for air hoses on a system that produces 150 psig?

30. Brushes in power tools should be inspected periodically and replaced if they are less than ___ mm?

31. What is the most likely cause of arcing in a power tool?

Basic Electrical Safety

1. Why does current flow through a ground wire in a grounded power tool when a fault occurs and not through the operator?

2. Which power tools are not required to be grounded?

3. What should be done with damaged power tools?

4. When is it permissible to use power tools in wet locations?

5. What is one option instead of making a knot to hold a power tool cord in an extension cord?

6. What does CEC rule 10-408 (3) state?