Chapter 2 Electrical Motor Controls

1. What are the two main types (according to the text) of screw drivers? Flathead and Phillips
2. What is the problem with using ferrous metal (iron or steel) hand tools in an area where there are flammable gasses? May spark
3. What should be done with a screwdriver with a worn or broken handle? Discard
4. Which pliers (according to the text) are typically used to tighten box connectors? Slip-joint
5. Which pliers do tradespersons use for tightening box connectors? Tongue-and-groove (channel lock)
6. Which pliers are used for making loops and positioning small objects? Long-nose (needle-nose)
7. Which pliers are typically used for twisting wires? Side-cutting (linesman)
8. What is another term for locking pliers? Vise grip
9. What are some types of pipe wrenches? Straight, offset, strap, or chain
10. What type of wrench is typically used for tightening large conductors in panels? Hex key wrenches
11. What are the two types of wrench sizes? Metric and Inch (imperial)
12. What is the term used to describe a striking or splitting tool with a hardened head fastened perpendicular to the handle? Hammer
13. What are three types of hammers? Electricians, ball peen, or sledge
14. Which hammer is designed for striking chisels and punches? Ball peen
15. Which hammer is used for driving ground rods? Sledge
16. What materials are typically used for fuse pullers? Nylon or laminated fiber
17. What other functions are performed by a combination wire stripper? Crimping terminals, bolt cutting, and wire cutting
18. What are the two main types of pipe vise? Yoke and chain
19. What are some materials used for fish tapes? Nylon, steel (tempered, stainless, and multi-strand) and fiberglass
20. Which type of fish tape is recommended when fishing wires into a live panel? Nylon (coated) or fiberglass
21. What is the maximum size PVC that can be cut with the ratcheting pipe cutter shown? 2”
22. What is the purpose of cable tie guns? Reduce fatigue and increase productivity
23. What are three types of pipe benders? Manual (hickey), mechanical, electric
24. Which conduit bender is used for high-volume conduit bending with little effort? Electric
25. What is the maximum rating of double-insulated electric safety tools? 1000V
26. What is the most obvious characteristic of a skinning knife? Hooked (curved) blade
27. How often should a tool be checked for worn, chipped or damaged surfaces? Before each use
28. Why are dull tools dangerous? Require extra pressure often resulting in loss of control
29. What are some of the classifications of power tools? Electric, pneumatic, liquid fuel, hydraulic, or powder actuated
30. When are reciprocal saws typically used in construction? After framing is done
31. What are some advantages of battery-powered cable cutters? Reduce fatigue on nerves, muscles, and tendons. Increase productivity
32. How is the strain and fatigue of pulling wire reduced? Using a power cable puller.
33. How are holes typically drilled in concrete for the attachment of conduits and boxes? Hammer drill.
34. What is the term used to describe an electric power tool that does not require a three-wire grounding cord connection? Double-insulated.
35. What is the possible result of using an ungrounded (not double-insulated) power tool? Death.
36. How are small hand tools and instruments typically transported and stored? Pouch or tool box.
37. How are tools typically organized and stored in one place? Tool Chest or cabinet.