**Hand Tools**

**Exam 2 Answer Key**

**NOTE: Please write responses on this sheet.**

**1. List three factors that should be considered when selecting tools. (2pts each)**

**Teacher’s Note**

**Student may provide any three of the following:**

* + 1. **Tool size should be matched to the work most frequently encountered**
    2. **Purchasing quality tools is less expensive in the long run**
    3. **Tools should be specifically designed for electronic use whenever possible:** o **Should have insulation on handles of pliers**

o **Should have insulation on handles of screwdrivers**

* + 1. **Know the specifications before purchasing a tool**

1. **List maintenance procedures for the following tools. (2pts each)**
   1. **Screwdrivers**
      1. **Regrind worn or damaged flat blade screwdrivers**
      2. **Discard damaged Phillips screwdrivers**
   2. **Pliers**
      1. **Keep pliers clean and rust free**
      2. **Keep cutting edges sharp and smooth**
      3. **Keep pliers working freely**
      4. **Repair or replace damaged handle insulation**
   3. **Adjustable wrenches- Keep worm gears clean and lubricated**
   4. **All tools- Identify tools by labeling with electric vibrator pen or scratch awl**
2. **Identify the hand tools labeled and displayed by the teacher (spelling counts).**

**Teacher’s Note**

**The following tools are the recommended tools and sequence. Add or delete hand tools according to what is available in the shop.**

* 1. **Long nose pliers**
  2. **Diagonal cutting pliers**
  3. **Linesman’s side cutting pliers**

**Hand Tools**

**Exam 2 Answer Key (continued)**

1. **Combination slip joint pliers**
2. **Flat blade (slot head) screwdriver**
3. **Phillips head (cross point) screwdriver**
4. **Hacksaw**
5. **Keyhole saw**
6. **Adjustable wire strippers**
7. **6-in-1 tool**
8. **Crescent wrench (adjustable)**
9. **Hex or Allen wrenches**
10. **Nut driver**
11. **Drill and drill bits**
12. **Ball peen hammer**
13. **Flat file**
14. **Half round file**
15. **Hemostat clamp**
16. **Wire gauge**
17. **Precision files**
18. **Center punch**
19. **Square hole punch**
20. **Round hole punch**
21. **Socket wrench**
22. **Claw hammer**
23. **Multimeter**