

# Tool Identification



Sledge Hammer



Curved Claw Hammer



Ball Peen Hammer



Rubber Mallet



Hex Allen Wrench



Combination Wrench



Open End Wrench



Adjustable Wrench



Box End Wrench



Socket

Ratchet



Pipe Wrench



Diagonal Cut Pliers



Combination Slip Joint Pliers



Needle Nose Pliers



Slip Joint Pliers



Locking Pliers



Lineman's Pliers



Bolt Cutter



Tin Snips



Offset Screwdriver



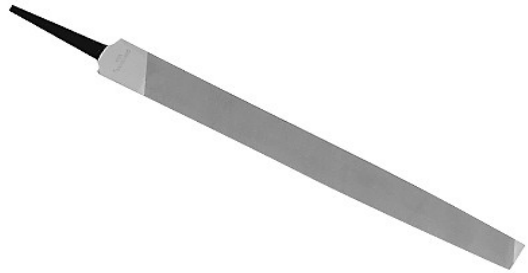
Phillips Screwdriver



Flat Blade Screwdriver



Round File



Flat File



Half Round File



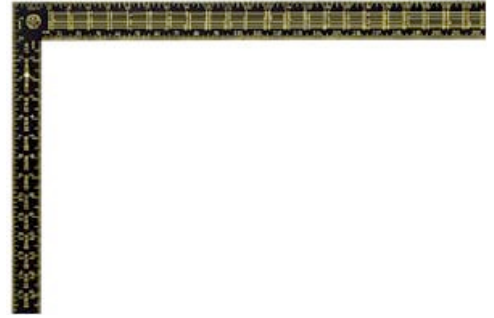
Triangular File



Micrometer



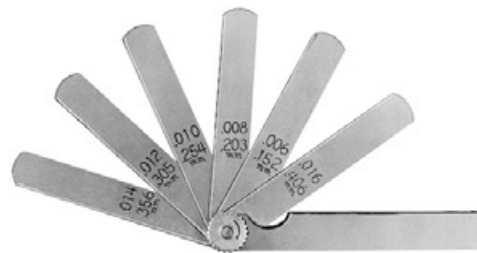
Combination Square



Framing Square



Steel Tape Measure



Feeler Gauge



Inside Caliper



Outside Caliper



Round Nose Chisel



Cold Chisel



Center Punch



Pin Punch



Round Punch



General Utility Vise



Machinist's Vise



Wire Brush



Hacksaw



Power Drill



Drill Bit



Wood Clamp



Bar Clamp



C-Clamp



Flat Nail Bar



Utility Knife

## TOOL DESCRIPTIONS

**Open End Wrench**- a wrench with two open ends

**Box End Wrench**- a high torque wrench with two closed ends

**Combination Wrench**- a wrench with both open and closed ends

**Ratchet** - a wrench with ratchet movement, used with a socket

**Allen Wrench**- used to tighten/loosen Allen screws

**Pipe Wrench**- has adjustable jaw that tightens to hold tight when torque is applied to handle

**Combination Slip Joint Pliers**- common household pliers that are adjustable

**Linemen's Pliers**- pliers used to do electrical work

**Diagonal Cutters**- cutters used as side cutters to cut wire

**Needle Nose Pliers**- pliers that come to a point

**Curved Claw Hammer**- hammer used to do construction work

**Sledge Hammer**- a heavy weight hammer with a long handle used for hitting objects

**Ball-Peen Hammer**- a hammer with a round point on one end and a flat head on the other end



**Rubber Mallet**- a light hammer that does not dent objects when struck

**Cold Chisel**- a chisel, which has a flat tip and used to notch and move stuck bolts

**Round Chisel**- a chisel with a round tip

**Flat Blade Screwdriver**- a screwdriver with a flat tip

**Phillips Screwdriver**- a screwdriver that has a head that ridges intersect like an X

**Offset Screwdriver**- a screwdriver with screw heads offset 90 degrees from each other and is used to remove or replace screws in tight areas

**Power Drill**- used with a drill bit to drill holes

**Hacksaw**- saw used to cut metal or plastic

**Bolt Cutters**- used to cut bolts

**Tin Snips**- used to cut thin sheet metal

**Round Punch**- reduces hammer force to a small area

**Pin Punch-** used to drive out small objects, cotter keys and key locks

**Center Punch-** used to mark metal or plastic for drilling

**Flat File-** use to sharpen blades

**Half Round File-** used to remove metal burrs from inside large round objects

**Triangular File-** use to remove metal burrs from L shaped objects

**Round File-** used to remove metal burrs from small round objects

**Machinist Vice-** light weight vice for general shop use

**General Utility Vice-** heavy weight vice for heavy shop work

**Outside Caliper-** used to measure outside diameter of an object

**Inside Caliper-** used to measure inside diameter of an object

**Micrometer-** precise measurement device often found in machine shops and used for measuring the outside of objects

**Feeler Gauge**- used for setting air gaps on various objects such as spark plugs

**Metal Framing Square**- measurement device often used in construction for cutting straight lines and 90-degree angles

**Steel Tape Measure**- most frequently used measuring device and measuring tape is coiled inside a small case

**Combination Square**- an adjustable square with grooved 12-inch metal rule

**Wood Clamp**- clamp used to hold pieces of wood in place

**Drill Bit**- detachable cutting tool used to cut circular holes; the cutting end of a drill

**Bar Clamp**- designed for spanning wide work. It has a metal pipe with screw clamps and an adjustable stop mounted on the pipe.

**Locking Pliers**- pliers that can be locked in place

**Adjustable Wrench**- wrench that is adjustable to different sized nuts and bolts

**Socket**- Receptacle used to tighten or loosen hex shaped fasteners to be used with a ratchet or other square-drive device

**Flat Nail Bar**- A flat hand bar of steel with a slightly bent, wedge-shaped end, which is sometimes forked. Used as a pry or lever.

**Slip-joint Pliers**- Pliers with a joint adjustable to two positions in order to increase the opening of the jaws

**Wire Brush**- Tool with wood or plastic handle and steel wire bristles used for cleaning rust and removing paint

**C-Clamp**- The C-clamp is a type of clamp device typically used to hold a wood or metal work piece.

**Utility Knife**- a common tool used in various trades and crafts for a variety of purposes

# **JOB READINESS**

## **Tool Identification Test**

1. A wrench with two open ends.
  - a. Box End Wrench
  - b. Combination Wrench
  - c. Hex Allen Wrench
  - d. Open End Wrench
2. A high torque wrench with two closed ends.
  - a. Box End Wrench
  - b. Combination Wrench
  - c. Hex Allen Wrench
  - d. Open End Wrench
3. A wrench with both open and closed ends.
  - a. Box End Wrench
  - b. Combination Wrench
  - c. Hex Allen Wrench
  - d. Open End Wrench
- a. A wrench with ratchet movement, used with a socket.
  - a. Adjustable Wrench
  - b. Hex Allen Wrench
  - c. Pipe Wrench
  - d. Ratchet Wrench
- b. A tool used to tighten/loosen Allen screws.
  - a. Box End Wrench
  - b. Combination Wrench
  - c. Hex Allen Wrench
  - d. Open End Wrench
- c. A tool that has an adjustable jaw that tightens to hold tight when torque is applied to handle.
  - a. Adjustable Wrench
  - b. Hex Allen Wrench
  - c. Pipe Wrench
  - d. Ratchet Wrench

d. Pliers commonly used for turning and holding nuts and bolts, gripping odd shaped objects, and clamping materials.

- a. Diagonal Cut Pliers
- b. Lineman's Pliers
- c. Needle Nose Pliers
- d. Channellocks/Tongue & Groove Pliers

e. Pliers used to do electrical work.

- a. Diagonal Cut Pliers
- b. Lineman's Pliers
- c. Needle Nose Pliers
- d. Slip Joint Pliers

f. Cutters used as side cutters to cut wire.

- a. Diagonal Cut Pliers
- b. Lineman's Pliers
- c. Needle Nose Pliers
- d. Slip Joint Pliers

g. Pliers that come to a point.

- a. Diagonal Cut Pliers
- b. Lineman's Pliers
- c. Needle Nose Pliers
- d. Slip Joint Pliers

h. A hammer used to do construction work.

- a. Ball Peen Hammer
- b. Curved Claw Hammer
- c. Shop Hammer
- d. Sledge Hammer

i. A heavy weight hammer with a long handle used for hitting objects.

- a. Ball Peen Hammer
- b. Curved Claw Hammer
- c. Shop Hammer
- d. Sledge Hammer

j. A hammer with a round point on one end and a flat head on the other end.

- a. Ball Peen Hammer
- b. Curved Claw Hammer
- c. Shop Hammer
- d. Sledge Hammer

- k. Clamp for spanning wide work. It has a metal pipe with screw clamps and an adjustable stop mounted on the pipe.
- a. Bar Clamp
  - b. Flat Nail Bar
  - c. Utility Knife
  - d. Wood Clamp
- l. A light hammer that does not dent objects when struck.
- a. Ball Peen Hammer
  - b. Curved Claw Hammer
  - c. Rubber Mallet
  - d. Sledge Hammer
- m. A chisel, which has a flat tip used to notch and move stuck bolts.
- a. Cold Chisel
  - b. Flat Nail Bar
  - c. Round Nose Chisel
  - d. Round Punch
- n. A chisel with a round tip.
- a. Cold Chisel
  - b. Flat Nail Bar
  - c. Round Nose Chisel
  - d. Round Punch
- o. Pliers that can be locked in place.
- a. Diagonal Cut Pliers
  - b. Locking Pliers
  - c. Needle Nose Pliers
  - d. Slip Joint Pliers
- p. Wrench that is adjustable to different sized nuts and bolts.
- a. Adjustable Wrench
  - b. Hex Allen Wrench
  - c. Pipe Wrench
  - d. Ratchet Wrench
- q. A screwdriver with a flat tip.
- a. Drill Bit
  - b. Flat Blade Screwdriver
  - c. Offset Screwdriver
  - d. Phillips Screwdriver

- r. A screwdriver that has a head with ridges that intersect like an X.
  - a. Drill Bit
  - b. Flat Blade Screwdriver
  - c. Offset Screwdriver
  - d. Phillips Screwdriver
- s. A screwdriver with screw heads offset 90 degrees from each used to remove or replace screws in tight areas.
  - a. Drill Bit
  - b. Flat Blade Screwdriver
  - c. Offset Screwdriver
  - d. Phillips Screwdriver
- t. Used with a drill bit to drill holes.
  - a. General Utility Vise
  - b. Hacksaw
  - c. Machinist Vise
  - d. Power Drill
- u. A tool used to cut metal or plastic.
  - a. General Utility Vise
  - b. Hacksaw
  - c. Machinist Vise
  - d. Power Drill
- v. Used to cut bolts.
  - a. Bolt Cutter
  - b. Diagonal Cut Pliers
  - c. Machinist Vise
  - d. Tin Snips
- w. Used to cut thin sheet metal.
  - a. Bolt Cutter
  - b. Diagonal Cut Pliers
  - c. Machinist Vise
  - d. Tin Snips
- x. Reduces hammer force to a small area.
  - a. Center Punch
  - b. Drill Bit
  - c. Pin Punch
  - d. Round Punch



y. Used to drive out small objects, cotter keys, and key locks.

- a. Center Punch
- b. Drill Bit
- c. Pin Punch
- d. Round Punch

z. Used to mark metal or plastic for drilling.

- a. Center Punch
- b. Drill Bit
- c. Pin Punch
- d. Round Punch

aa. Used to sharpen blades.

- a. Flat File
- b. Half Round File
- c. Round File
- d. Triangular File

bb. Used to remove metal burrs from inside large round objects.

- a. Flat File
- b. Half Round File
- c. Round File
- d. Triangular File

cc. Used to remove metal burrs from L shaped objects.

- a. Flat File
- b. Half Round File
- c. Round File
- d. Triangular File

dd. Used to remove metal burrs from inside small round objects.

- a. Flat File
- b. Half Round File
- c. Round File
- d. Triangular File

ee. A lightweight vise for general shop use.

- a. General Utility Vise
- b. Hacksaw
- c. Machinist Vise
- d. Power Drill

ff. A heavy weight vise for heavy shop work.

- a. General Utility Vise
- b. Hacksaw
- c. Machinist Vise
- d. Power Drill

gg. Used to measure outside diameter of an object.

- a. Feeler Gauge
- b. Inside Caliper
- c. Outside Caliper
- d. Steel Tape Measure

hh. Used to measure inside diameter of an object.

- a. Feeler Gauge
- b. Inside Caliper
- c. Outside Caliper
- d. Steel Tape Measure

ii. Precise measurement device often found in machine shops and used for measuring to 1000<sup>th</sup> of an inch.

- a. Feeler Gauge
- b. Micrometer
- c. Outside Caliper
- d. Steel Tape Measure

jj. Used for setting air gaps on various objects such as spark plugs.

- a. Feeler Gauge
- b. Micrometer
- c. Outside Caliper
- d. Steel Tape Measure

kk. Measurement device often used in construction for marking straight lines and 90-degree angles.

- a. Framing Square
- b. Inside Caliper
- c. Outside Caliper
- d. Steel Tape Measure

ll. Most frequently used measuring device. Measuring tape is coiled inside a small case.

- a. Framing Square
- b. Inside Caliper
- c. Outside Caliper
- d. Steel Tape Measure

mm. An adjustable square with grooved 12-inch metal rule.

- a. Combination Square
- b. Framing Square
- c. Outside Caliper
- d. Steel Tape Measure

nn. Receptacle used to tighten or loosen hex shaped fasteners to be used with a ratchet or other square-drive device.

- a. Adjustable Wrench
- b. Drill Bit
- c. Pipe Wrench
- d. Socket

oo. A clamp used to hold pieces of wood in place.

- a. Flat Nail Bar
- b. Utility Knife
- c. Wire Brush
- d. Wood Clamp

45. A detachable cutting tool used to cut circular holes; the cutting end of a drill.

- a. Center Punch
- b. Drill Bit
- c. Pin Punch
- d. Round Punch

46. A flat hand bar of steel with a slightly bent wedge-shaped end, which is sometimes forked. used as a pry bar or lever.

- a. C-Clamp
- b. Flat Nail Bar
- c. Utility Knife
- d. Wood Clamp

47. Pliers with a joint adjustable to two positions in order to increase the opening of the jaws.

- a. Diagonal Cut Pliers
- b. Lineman's Pliers
- c. Needle Nose Pliers
- d. Slip Joint Pliers

48. A tool with a wood or plastic handle and steel wire bristles used for cleaning rust and removing paint.

- a. Flat Nail Bar
- b. Utility Knife
- c. Wire Brush
- d. Wood Clamp

49. C-shaped clamping device typically used to hold a wood or metal work piece.

- a. C-Clamp
- b. Flat Nail Bar
- c. Utility Knife
- d. Wood Clamp

50. A cutting tool used in various trades and crafts for a variety of purposes.

- a. Flat Nail Bar
- b. Utility Knife
- c. Wire Brush
- d. Wood Clamp

# JOB READINESS

## Tool Identification Test

1. A wrench with two open ends.

- a. Box End Wrench
- b. Combination Wrench
- c. Hex Allen Wrench
- d. Open End Wrench

2. A high torque wrench with two closed ends.

- a. Box End Wrench
- b. Combination Wrench
- c. Hex Allen Wrench
- d. Open End Wrench

3. A wrench with both open and closed ends.

- a. Box End Wrench
- b. Combination Wrench
- c. Hex Allen Wrench
- d. Open End Wrench

4. A wrench with ratchet movement, used with a socket.

- a. Adjustable Wrench
- b. Hex Allen Wrench
- c. Pipe Wrench
- d. Ratchet Wrench

5. A tool used to tighten/loosen Allen screws.

- a. Box End Wrench
- b. Combination Wrench
- c. Hex Allen Wrench
- d. Open End Wrench

6. A tool that has an adjustable jaw that tightens to hold tight when torque is applied to handle.

- a. Adjustable Wrench
- b. Hex Allen Wrench
- c. Pipe Wrench
- d. Ratchet Wrench

7. Pliers commonly used for turning and holding nuts and bolts, gripping odd shaped objects, and clamping materials.

- a. Diagonal Cut Pliers
- b. Lineman's Pliers
- c. Needle Nose Pliers
- d. Channellocks/Tongue & Groove Pliers

8. Pliers used to do electrical work.

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- b. Lineman's Pliers
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- d. Slip Joint Pliers

9. Cutters used as side cutters to cut wire.

- a. Diagonal Cut Pliers
- b. Lineman's Pliers
- c. Needle Nose Pliers
- d. Slip Joint Pliers

10. Pliers that come to a point.

- a. Diagonal Cut Pliers
- b. Lineman's Pliers
- c. Needle Nose Pliers
- d. Slip Joint Pliers

11. A hammer used to do construction work.

- a. Ball Peen Hammer
- b. Curved Claw Hammer
- c. Shop Hammer
- d. Sledge Hammer

12. A heavy weight hammer with a long handle used for hitting objects.

- a. Ball Peen Hammer
- b. Curved Claw Hammer
- c. Shop Hammer
- d. Sledge Hammer

13. A hammer with a round point on one end and a flat head on the other end.

- a. Ball Peen Hammer
- b. Curved Claw Hammer
- c. Shop Hammer
- d. Sledge Hammer

14. Clamp for spanning wide work. It has a metal pipe with screw clamps and an adjustable stop mounted on the pipe.

- a. Bar Clamp
- b. Flat Nail Bar
- c. Utility Knife
- d. Wood Clamp

15. A light hammer that does not dent objects when struck.

- a. Ball Peen Hammer
- b. Curved Claw Hammer
- c. Rubber Mallet
- d. Sledge Hammer

16. A chisel, which has a flat tip used to notch and move stuck bolts.

- a. Cold Chisel
- b. Flat Nail Bar
- c. Round Nose Chisel
- d. Round Punch

17. A chisel with a round tip.

- a. Cold Chisel
- b. Flat Nail Bar
- c. Round Nose Chisel
- d. Round Punch

18. Pliers that can be locked in place.

- a. Diagonal Cut Pliers
- b. Locking Pliers
- c. Needle Nose Pliers
- d. Slip Joint Pliers

19. Wrench that is adjustable to different sized nuts and bolts.

- a. Adjustable Wrench
- b. Hex Allen Wrench
- c. Pipe Wrench
- d. Ratchet Wrench

20. A screwdriver with a flat tip.

- a. Drill Bit
- b. Flat Blade Screwdriver
- c. Offset Screwdriver
- d. Phillips Screwdriver

21. A screwdriver that has a head with ridges that intersects like an X.

- a. Drill Bit
- b. Flat Blade Screwdriver
- c. Offset Screwdriver
- d. Phillips Screwdriver

22. A screwdriver with screw heads offset 90 degrees from each used to remove or replace screws in tight areas.

- a. Drill Bit
- b. Flat Blade Screwdriver
- c. Offset Screwdriver
- d. Phillips Screwdriver

23. Used with a drill bit to drill holes.

- a. General Utility Vise
- b. Hacksaw
- c. Machinist Vise
- d. Power Drill

24. A tool used to cut metal or plastic.

- a. General Utility Vise
- b. Hacksaw
- c. Machinist Vise
- d. Power Drill

25. Used to cut bolts.

- a. Bolt Cutter
- b. Diagonal Cut Pliers
- c. Machinist Vise
- d. Tin Snips



26. Used to cut thin sheet metal.

- a. Bolt Cutter
- b. Diagonal Cut Pliers
- c. Machinist Vise
- d. Tin Snips

27. Reduces hammer force to a small area.

- a. Center Punch
- b. Drill Bit
- c. Pin Punch
- d. Round Punch

28. Used to drive out small objects, cotter keys, and key locks.

- a. Center Punch
- b. Drill Bit
- c. Pin Punch
- d. Round Punch

29. Used to mark metal or plastic for drilling.

- a. Center Punch
- b. Drill Bit
- c. Pin Punch
- d. Round Punch

30. Used to sharpen blades.

- a. Flat File
- b. Half Round File
- c. Round File
- d. Triangular File

31. Used to remove metal burrs from inside large round objects.

- a. Flat File
- b. Half Round File
- c. Round File
- d. Triangular File

32. Used to remove metal burrs from L shaped objects.

- a. Flat File
- b. Half Round File
- c. Round File
- d. Triangular File

33. Used to remove metal burrs from inside small round objects.

- a. Flat File
- b. Half Round File
- c. Round File
- d. Triangular File

34. A lightweight vise for general shop use.

- a. General Utility Vise
- b. Hacksaw
- c. Machinist Vise
- d. Power Drill

35. A heavy weight vise for heavy shop work.

- a. General Utility Vise
- b. Hacksaw
- c. Machinist Vise
- d. Power Drill

36. Used to measure outside diameter of an object.

- a. Feeler Gauge
- b. Inside Caliper
- c. Outside Caliper
- d. Steel Tape Measure

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- b. Micrometer
- c. Outside Caliper
- d. Steel Tape Measure

39. Used for setting air gaps on various objects such as spark plugs.

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- b. Micrometer
- c. Outside Caliper
- d. Steel Tape Measure

40. Measurement device often used in construction for marking straight lines and 90-degree angles.

- a. Framing Square
- b. Inside Caliper
- c. Outside Caliper
- d. Steel Tape Measure

41. Most frequently used measuring device. Measuring tape is coiled inside a small case.

- a. Framing Square
- b. Inside Caliper
- c. Outside Caliper
- d. Steel Tape Measure

42. An adjustable square with grooved 12-inch metal rule.

- a. Combination Square
- b. Framing Square
- c. Outside Caliper
- d. Steel Tape Measure

43. Receptacle used to tighten or loosen hex shaped fasteners to be used with a ratchet or other square-drive device.

- a. Adjustable Wrench
- b. Drill Bit
- c. Pipe Wrench
- d. Socket

44. A clamp used to hold pieces of wood in place.

- a. Flat Nail Bar
- b. Utility Knife
- c. Wire Brush
- d. Wood Clamp

45. A detachable cutting tool used to cut circular holes; the cutting end of a drill.

- a. Center Punch
- b. Drill Bit
- c. Pin Punch
- d. Round Punch

46. A flat hand bar of steel with a slightly bent wedge-shaped end, which is sometimes forked. Used as a pry bar or lever.

- a. C-Clamp
- b. Flat Nail Bar
- c. Utility Knife
- d. Wood Clamp

47. Pliers with a joint adjustable to two positions in order to increase the opening of the jaws.

- a. Diagonal Cut Pliers
- b. Lineman's Pliers
- c. Needle Nose Pliers
- d. Slip Joint Pliers

48. A tool with a wood or plastic handle and steel wire bristles used for cleaning rust and removing paint.

- a. Flat Nail Bar
- b. Utility Knife
- c. Wire Brush
- d. Wood Clamp

49. C-shaped clamping device typically used to hold a wood or metal work piece.

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- c. Utility Knife
- d. Wood Clamp

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- a. Flat Nail Bar
- b. Utility Knife
- c. Wire Brush
- d. Wood Clamp

## CONTEST MATERAIL LIST- TOOL IDENTIFICATION CONTEST

|   |                    |
|---|--------------------|
| 2 | 6x6 Blocks of Wood |
| 1 | 3/8 Hex Bolt       |
| 2 | 3/8 Flat Washer    |
| 1 | 3/8 Lock Washer    |
| 1 | 3/8 Nut            |

### TOOLS NEEDED

Wood Clamp  
7/16 Drill Bit  
Tape Measure  
Framing Square  
9/16 Box End Wrench  
9/16 Socket and Ratchet

Contest host will include 10 additional tools that would not be used to complete the task.

Contestant No. \_\_\_\_\_

Time Started \_\_\_\_\_ Time Finished \_\_\_\_\_

\*\*\*\*\*Time will be a factor if there is a tie\*\*\*\*\*

#1 Tool Name Score (50 Possible)

#2 Tool Retrieval Score (50 Possible)

#3 Skill Demonstration Score (50 Possible)

#4 Vocabulary Test Score (100 Possible)

Student Resume' yes 0 points / no -12 points

JUDGES' FINAL SCORE (250 POSSIBLE)

JOB READINESS

|       |
|-------|
| _____ |
| _____ |
| _____ |
| _____ |
| _____ |
| _____ |

# **Tool Identification Contest Rating Sheet**

**Contestant No.** \_\_\_\_\_

| #1 | Tool Name                                         | Yes                         | No | Comments |
|----|---------------------------------------------------|-----------------------------|----|----------|
| 1  |                                                   |                             |    |          |
| 2  |                                                   |                             |    |          |
| 3  |                                                   |                             |    |          |
| 4  |                                                   |                             |    |          |
| 5  |                                                   |                             |    |          |
| 6  |                                                   |                             |    |          |
| 7  |                                                   |                             |    |          |
| 8  |                                                   |                             |    |          |
| 9  |                                                   |                             |    |          |
| 10 |                                                   |                             |    |          |
|    | <b>Tool Name Score<br/>50 Possible/5 per tool</b> | <b>Total Score #1</b> _____ |    |          |

# **Tool Identification Contest Rating Sheet**

**Contestant No.** \_\_\_\_\_

| #2 | Tool Retrieval                                         | Yes                         | No | Comments |
|----|--------------------------------------------------------|-----------------------------|----|----------|
| 1  |                                                        |                             |    |          |
| 2  |                                                        |                             |    |          |
| 3  |                                                        |                             |    |          |
| 4  |                                                        |                             |    |          |
| 5  |                                                        |                             |    |          |
| 6  |                                                        |                             |    |          |
| 7  |                                                        |                             |    |          |
| 8  |                                                        |                             |    |          |
| 9  |                                                        |                             |    |          |
| 10 |                                                        |                             |    |          |
|    | <b>Tool Retrieval Score<br/>50 Possible/5 per tool</b> | <b>Total Score #2</b> _____ |    |          |

# Skill Demonstration

Contestant No. \_\_\_\_\_

|          |                                                                                                                                                                         | 10 pts                          | 8 pts                      | 6 pts                       | 4 pts                      | 2 pts                      | 0 pts                          |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|--------------------------------|
| <b>1</b> | <b>Safety</b>                                                                                                                                                           | <b>Wears safety glasses</b>     |                            |                             |                            |                            | <b>Has to be reminded</b>      |
| <b>2</b> | <b>Tool Selection</b><br><br>7/16 drill bit & Cordless/electric drill, wood clamp or vise, tape measure or framing square, 9/16 box end wrench, ratchet and 9/16 socket | <b>Chooses 5 correct tools</b>  | <b>Chooses 4 correctly</b> | <b>Chooses 3 correctly</b>  | <b>Chooses 2 correctly</b> | <b>Chooses 1 correctly</b> | <b>Chooses 0 correct tools</b> |
| <b>3</b> | <b>Hole Placement</b><br><br>Uses corner to corner technique or measures twice in both directions to find center                                                        | <b>Located Center</b>           |                            |                             |                            |                            | <b>Off center</b>              |
| <b>4</b> | <b>Correct use of tools</b>                                                                                                                                             | <b>Uses all tools correctly</b> | <b>Uses 4 correctly</b>    | <b>Uses 3 correctly</b>     | <b>Uses 2 correctly</b>    | <b>Uses 1 correctly</b>    | <b>Uses none correctly</b>     |
| <b>5</b> | <b>Correct order of Fasteners</b><br><br>Bolt, flat washer (through wood), flat washer, lock washer, and nut                                                            | <b>Correct order</b>            | <b>4 in correct order</b>  | <b>3 in correct order</b>   | <b>2 in correct order</b>  | <b>1 in correct order</b>  | <b>0 In correct order</b>      |
|          | <b>Skill Demonstration Score (50 Possible)</b>                                                                                                                          |                                 |                            | <b>Total Score #3 _____</b> |                            |                            |                                |