

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



Tongue and Groove Pliers/Locking Pliers



Needle Nose Pliers



Slip Joint Pliers



Locking Pliers



Lineman's Pliers



Bolt Cutter



Tin Snips



Offset Screwdriver



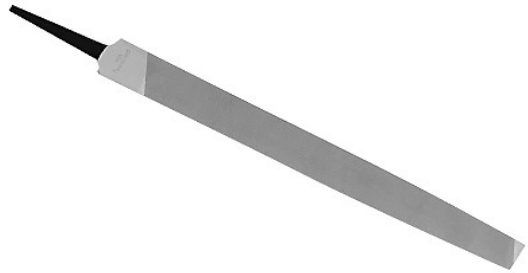
Phillips Screwdriver



Flat Blade Screwdriver



Round File



Flat File



Half Round File



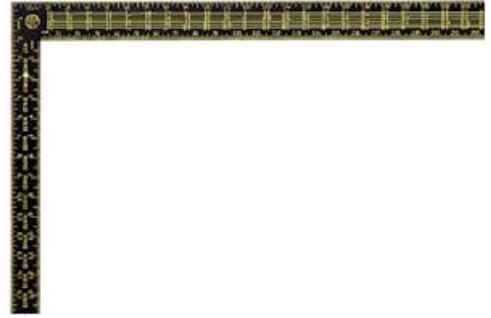
Triangular File



Micrometer



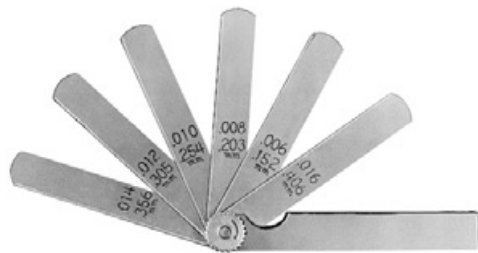
Combination Square



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

Tongue and Groove/Locking Pliers - Pliers commonly used for turning and holding nuts and bolts, gripping odd shaped objects, and clamping materials. Can be locked into place.

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

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

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. Locking Pliers/Tongue & Groove Pliers

8. Pliers used to do electrical work.

- a. Diagonal Cut Pliers
- b. Lineman's Pliers
- c. Needle Nose Pliers
- 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 intersect like an X.
- Drill Bit
 - Flat Blade Screwdriver
 - Offset Screwdriver
 - Phillips Screwdriver
22. A screwdriver with screw heads offset 90 degrees from each used to remove or replace screws in tight areas.
- Drill Bit
 - Flat Blade Screwdriver
 - Offset Screwdriver
 - Phillips Screwdriver
23. Used with a drill bit to drill holes.
- General Utility Vise
 - Hacksaw
 - Machinist Vise
 - Power Drill
24. A tool used to cut metal or plastic.
- General Utility Vise
 - Hacksaw
 - Machinist Vise
 - Power Drill
25. Used to cut bolts.
- Bolt Cutter
 - Diagonal Cut Pliers
 - Machinist Vise
 - Tin Snips
26. Used to cut thin sheet metal.
- Bolt Cutter
 - Diagonal Cut Pliers
 - Machinist Vise
 - Tin Snips
27. Reduces hammer force to a small area.
- Center Punch
 - Drill Bit
 - Pin Punch
 - 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

37. Used to measure inside diameter of an object.

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

38. Precise measurement device often found in machine shops and used for measuring to 1000th of an inch.

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

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

- a. Feeler Gauge
- 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.

- 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

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d. Ratchet Wrench

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- b. Curved Claw Hammer
- c. Shop Hammer
- d. Sledge Hammer

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

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23. Used with a drill bit to drill holes.

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

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25. Used to cut bolts.

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- b. Diagonal Cut Pliers
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d. Tin Snips

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- b. **Micrometer**
- c. Outside Caliper
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- c. Pipe Wrench
- d. Socket

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

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- b. Utility Knife
- c. Wire Brush
- d. Wood Clamp

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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				
	Tool Name Score 50 Possible/5 per tool	Total Score #1 _____		

Tool Identification Contest Rating Sheet

Contestant No. _____

#2	Tool Retrieval	Yes	No	Comments
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Tool Retrieval Score 50 Possible/5 per tool	Total Score #2 _____
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Skill Demonstration

Contestant No. _____

		10 pts	8 pts	6 pts	4 pts	2 pts	0 pts
1	Safety	Wears safety glasses					Has to be reminded
2	Tool Selection 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	Chooses 5 correct tools	Chooses 4 correctly	Chooses 3 correctly	Chooses 2 correctly	Chooses 1 correctly	Chooses 0 correct tools
3	Hole Placement Uses corner to corner technique or measures twice in both directions to find center	Located Center					Off center
4	Correct use of tools	Uses all tools correctly	Uses 4 correctly	Uses 3 correctly	Uses 2 correctly	Uses 1 correctly	Uses none correctly
5	Correct order of Fasteners Bolt, flat washer (through wood), flat washer, lock washer, and nut	Correct order	4 in correct order	3 in correct order	2 in correct order	1 in correct order	0 In correct order
Skill Demonstration Score (50 Possible)		Total Score #3 _____					

