

1 Hand tools 1



Carlton Construction Co.

Equipment Purchase Request

Employee: Robert Jackson

Requested Items:

- ☒ Phillips screwdriver
- ☒ flathead screwdriver
- ☒ claw hammer
- ☐ tape measure
- ☐ level
- ☐ utility knife
- ☒ needle-nose pliers
- ☐ slip-joint pliers
- ☐ hacksaw
- ☐ hand saw
- ☒ Other: tool box

Reason for request: Many of my tools are missing. I need flathead and Phillips screwdrivers. I can't install doors without them. I also need a claw hammer and needle-nose pliers. I use them on every job. Finally, I need a toolbox that locks. That's because I believe that someone stole my old tools.

Get ready!

1 Before you read the passage, talk about these questions.

- 1 What are some common hand tools?
- 2 Which hand tool would you use to saw wood?

Reading

2 Read the equipment purchase request. Then, mark the following statements as true (T) or false (F).

- 1 ☐ The employee needs two types of pliers.
- 2 ☐ The employee uses a claw hammer on every job.
- 3 ☐ The employee's tool box was stolen.

Vocabulary

3 Match the words (1-6) with the definitions (A-F).

- | | |
|---|---|
| 1 <input type="checkbox"/> utility knife | 4 <input type="checkbox"/> tape measure |
| 2 <input type="checkbox"/> flathead screwdriver | 5 <input type="checkbox"/> tool box |
| 3 <input type="checkbox"/> needle-nose pliers | 6 <input type="checkbox"/> level |

- A a tool used to turn slotted screws, which have one long slot
- B a tool used to measure how flat something is
- C hand tools with long, narrow extensions on the end, used to reach into narrow gaps
- D a portable container used to carry tools
- E a small tool used to cut various materials, such as cardboard or rope
- F a tool used to determine the length of something

4 Fill in the blanks with the correct words and phrases from the word bank.

Word Bank

claw hammer hand saw hacksaw
Phillips screwdriver slip-joint pliers

- 1 These _____ have a very firm grip.
- 2 Use a _____ to tighten these screws.
- 3 Get the _____ to remove those nails.
- 4 That _____ is worn from cutting so much metal.
- 5 A sharp _____ leaves wood with a smooth edge.



JOHN'S HARDWARE SPECIAL SALE!

John's Hardware is having a special sale on hand tools! From **sledgehammers** to **snips**, everything is available at a low price! Here are some of the great deals.

Adjustable wrenches are on sale for just \$7.00. We also have sets of five **box-end wrenches** or **open-end wrenches** for \$16.00 each. The deluxe **socket wrench** set comes with eight **sockets**. It's only \$28.00 this week!

But that's not all. Our accurate measuring and marking tools are on sale, too. **Speed squares** are only \$4.00 each. **Plumb bobs** and **chalk line reels** are available for just \$8.00.

Get ready!

1 Before you read the passage, talk about these questions.

- 1 What tool can be used to cut metal?
- 2 What are some different kinds of wrenches?

Reading

2 Read the ad for a hardware store. Then, mark the statements as true (T) or false (F).

- 1 ☐ Box-end and open-end wrenches are available together in a set.
- 2 ☐ The socket wrench set does not include sockets.
- 3 ☐ Chalk line reels are marking tools.

Vocabulary

3 Match the words (1-5) with the definitions (A-E).

- | | |
|---|--|
| 1 <input type="checkbox"/> plumb bob | 4 <input type="checkbox"/> chalk line reel |
| 2 <input type="checkbox"/> speed square | 5 <input type="checkbox"/> socket |
| 3 <input type="checkbox"/> snips | |

- A strong scissors used to cut sheet metal or similar materials
- A triangle-shaped tool used to draw straight lines and angles
- A head that attaches to a wrench for tightening different sized bolts
- A weight attached to a line used to determine if something is perpendicular to something else
- A tool that leaves a straight line on a flat surface

4 Read the sentence and choose the correct word.

- 1 I have several heads for this **adjustable wrench** / **socket wrench**.
- 2 Put the end of the **box-end wrench** / **open-end wrench** completely around the bolt.
- 3 Are you strong enough to lift that **socket wrench** / **sledgehammer**?
- 4 A(n) **box-end wrench** / **open-end wrench** only grasps opposite sides of a bolt.
- 5 Make the opening of that **adjustable wrench** / **socket wrench** smaller to fit the bolt.

The Handy Man Magazine Guide to Power Tools

By Marcus Ericson

Do you want high quality power tools? Here are the best toolmakers around.

Every toolbox needs a drill or two! For a **hammer drill** or **power drill**, try Bentley Tools. Their drills and **nail guns** are reliable and powerful. And Bentley tools are cordless. Take them anywhere!

For a **circular** or **reciprocating saw**, Cutco won't let you down. You get a smooth, accurate cut every time.

Do you need a **sander**? Try Sandman Tools. Their sanders smooth all woods and metals.

Marshall Industries makes great **air compressors** and **cement mixers**.

Finally, heavy-duty materials need heavy-duty tools. Builder's Source **jackhammers** cut through rock and pavement easily! This company also makes **compactors**. They flatten any type of soil.



jackhammer



power drill



compressor



cement mixer



circular saw

Get ready!

1 Before you read the passage, talk about these questions.

- 1 What are some common power tools that construction workers use?
- 2 What machine makes cement?

Reading

2 Read the article from *Handy Man* magazine. Then, mark the statements as true (T) or false (F).

- 1 ___ Bentley Tools makes multiple types of drills.
- 2 ___ The author recommends Sandman Tools for all saws.
- 3 ___ Builder's Source makes tools to flatten the ground.

Vocabulary

3 Write a word that is similar in meaning to the underlined part.

- 1 To cut through the wood, use a device with a rotating metal disk that has sharp teeth.
_ i _ _ _ l _ r _ _ w
- 2 Joe's tool that breaks up hard surfaces is broken.
_ _ c k _ _ _ m _ _
- 3 Start laying concrete after the rotating barrel mixes everything.
_ _ _ e _ t _ _ x _ _
- 4 Get the electrically powered tool with a rotating bit.
_ o _ _ r _ _ _ _ l
- 5 Before you paint the wood, use a machine that makes wood smooth on it.
_ _ n _ e _
- 6 If the wall is too hard to hammer the nail into it, try the device that drives nails into a surface when you pull a trigger.
_ _ i _ _ u _

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screws



nails



bolt and nut



washer



anchors



staples

Barnes Fasteners

Know the Right Fastener for Your Task

Sometimes you need more than a simple **screw** or **nail**. More complex tasks require more complex fasteners. Here are some suggestions.

Fasten structural wood-to-wood connections with heavy **bolts**. Always use a **washer** to reduce pressure. Bolts without tapered ends should be secured with a **nut**. **Anchors** hold screws or bolts in weak materials.

There's more to know about bolts, though. Know what **grade** to buy. And check if you need **UTS thread** or **metric thread**.

Smaller fasteners are equally useful. **Brads** are great for hanging pictures or other household tasks. And **staples** are not just for paper! For example, large ones attach shingles to a roof.

Get ready!

- 1 Before you read the passage, talk about these questions.

- 1 What are some different types of fasteners?
- 2 A screwdriver is used to insert what fastener?

Reading

- 2 Read the website for a fastener manufacturer. Then, mark the statements as true (T) or false (F).

- 1 ___ Heavy bolts can make structural connections.
- 2 ___ Nuts should be used to secure an anchor.
- 3 ___ Shingles are attached to roofs with brads.

Vocabulary

- 3 Match the words (1-5) with the definitions (A-E).

- | | |
|--------------|------------|
| 1 ___ screw | 4 ___ brad |
| 2 ___ washer | 5 ___ bolt |
| 3 ___ staple | |

- A a thin, small nail with a slight projection at the top on one side
- B a metal fastener with a threaded body and held in place with a nut on the end opposite the head
- C a flat disk placed beneath a nut to distribute pressure or prevent leaking
- D a metal fastener with a threaded shank that is driven into place with a screwdriver
- E a U-shaped fastener used to hold something together by penetrating it and curling around it

- 4 Read the sentence pair. Choose where the words best fit the blanks.

- 1 **grade / anchor**

- A Use a(n) _____ if the material is too weak to hold the screw.
- B Can you tell me the _____ of that bolt?

- 2 **metric thread / UTS thread**

- A _____ measures a screw's thread in millimeters.
- B _____ is most commonly used in the United States.

- 3 **nut / nail**

- A Don't forget to secure the bolt with a _____.
- B This hammer is too small to drive this _____.