

Robotics Safety Knowledge Test

Name: _____

Date: _____

Machine Knowledge

Match the following, 1 point each

____ 1. Table Saw

A. Used for free hand cutting.

____ 2. Band Saw

B. Blade comes down on the work piece. Used to cut angles.

____ 3. Miter Saw

C. Takes off edges using friction. It “rubs” away the material.

____ 4. Drill Press

D. Used mostly for ripping.

____ 5. Belt/Rotary Sander

E. Used mostly to put a hole in materials.

General Safety

Attention	Eye	Mentor	Permission
Injuries	Closed-toe footwear	Horseplay	Guards
Fingers	Clean	Running	T-shirt

Fill in the blank, 1 point each

1. Always wear _____ protection in the lab.
2. Keep work area _____.
3. Keep hands and _____ away from moving parts.
4. Report all _____ to the safety captain immediately.
5. Proper clothing and _____ must be worn in the lab.
6. Never use a machine without _____ from a mentor.
7. Never leave a machine while it is _____.
8. Always use the _____ provided on the machines unless given permission by a mentor.
9. No _____ in the lab area.
10. Pay close _____ to what you are doing at all times
11. Always have a _____ present when using the machines.
12. You must be wearing close-toed shoes and a _____ in the lab.

Multiple Choice (put your answer in the blank next to the question)

1. Kickback is a hazard occurring when operating ____
 - a. Power saws
 - b. Hand tools
 - c. Gas powered tools
 - d. Hand drills
2. The primary use of a table saw is ____
 - a. Creating beveled edges
 - b. Ripping stock to width
 - c. Cutting joining sections
 - d. Performing demolition jobs
3. The part of a table saw that guides stock as it is cut is called a ____
 - a. Splitter
 - b. Table plate
 - c. Rip fence
 - d. Blade guard
4. You should always use a _____ to finish ripping narrow stock on a table saw.
 - a. Stand
 - b. Blade angle wheel
 - c. Miter gauge
 - d. Push stick

True/False. Correct the false, 2 points each. Changing can to can't is not an acceptable correction.

- ___ 1. Lift with your back, not your knees.
- ___ 2. You can wear tank-tops in the lab.
- ___ 3. If you are in the shop you must be wearing safety glasses.
- ___ 4. You can use a machine that a friend or family member has shown you how to use.
- ___ 5. Your safety glasses must not have any tint to them.

Table Saw

True/False. Correct the false, 2 points each. Changing can to can't is not an acceptable correction.

- ___ 1. Students can remove guards if the piece being cut is too big to fit otherwise.
- ___ 2. You can reach over the blade to clear scrap pieces while the saw is running.
- ___ 3. Free hand cutting is allowed on table saws.

___ 4. The blade should be adjusted 1 tooth above the stock material.

___ 5. Never stand directly behind the stock being cut due to potential kickback (behind meaning the blade is rotating towards you).

___ 6. Never let go of a piece of stock between the fence and blade while the saw is running unless you are using a push stick.

Drill Press & Band Saw

True/False. Correct the false, 2 points each. Changing can to can't is not an acceptable correction.

___ 1. If you have any questions about the operation of a machine, you should check with a mentor after you finish your work.

___ 2. You must use a table board to protect the drill press.

___ 3. Clamps are unnecessary on the drill press.

___ 4. The blade guide should be set no more than ½ inch above the stock being cut.

___ 5. If small chips lodge in the blade, stop the machine and remove them immediately (once the machine has stopped moving).

___ 6. If you start to hear strange noises, you need to tell a mentor after you finish using the machine.

Miter Saw

True/False. Correct the false, 2 points each. Changing can to can't is not an acceptable correction.

___ 1. You may never reach over the line of cut to move scrap material while the machine is operating.

___ 2. Never let your fingers get in the line of cut.

___ 3. All adjustments must be made while the machine is off and the blade is not rotating.

___ 4. In all cross-cutting, be sure to return the saw to its starting position before the blade finishes rotating.

___ 5. You should cut fast enough that the blade does not burn the stock, but not too fast so that it catches the stock.

___ 6. The kickback on this machine is directly behind it (behind meaning the blade is rotating towards you).

Mill & Lathe

True/False. Correct the false, 2 points each. Changing can to can't is not an acceptable correction.

- ___1. Always check what speed you are in before machining a part.
- ___2. You need a senior student/veteran student with you when using these machines.
- ___3. When drilling a hole or a slot on the mill, go as fast as you can.
- ___4. On the lathe, it is the actual part that spins, not the cutting tools.
- ___5. Our mill has 3 degrees of freedom.
- ___6. You never have to clamp in place the piece you are machining.

Once finished, click the "Save As" button.

Save the file as yournamesafetyquiz. Email it to the safety captain.

Get the safety captain email from them.