

## ***Band Saw Notes***

### **Requirements:**

Proper eye protection must be worn—operate only with instructor's permission and after proper instructions have been received.

1. Adjust the blade guard to where it is  $\frac{1}{4}$  inch above the highest part of the wood.
2. Use a push stick whenever possible and always when cutting small objects.
3. ONLY one person can use the machine at a time. Everyone should form a line and wait patiently and quietly behind the yellow line.
4. Never force your wood into the blade. Let the machine do the work.
5. If it is not working properly, turn it off and tell your teacher immediately.
6. Cut sharp curves on the scroll saw.
7. Avoid backing out of a cut. If there is no way to avoid it, then you need to turn the machine off, wait until the blade has completely stopped, and then carefully back out.
8. Your fingers should be on either side of the blade, but never in front of the blade.
9. Blades do occasionally break. If the blade breaks while you are operating it simply turn it off and send your partner to get the teacher. Never leave the machine or try to open the casing and fix it yourself.
10. Make sure that the dust collector is on and that the vent is open.
11. Round stock must be cut using the V-block to secure it. Also, never reach around the blade to remove your work.
12. Always use scrap wood to push or move scrap wood away from the blade.
13. Never leave the machine until it has come to a complete stop, then clean the table off by using a table broom, never your hands.

## ***Band Saw Written Test***

Use the correct heading and write the answers on your own paper. Use the BEST answer to complete the following:

1. Adjust the blade guard to where it is 1/4 inch above the ( **Lowest**  **Highest**) part of the wood that you are cutting.
2. You ( **Should**  **Should not**) use a push stick when cutting out your C02 car design.
3. You should wait behind the ( **Air**  **Yellow**) line for your turn to use the machine.
4. ONLY ( **One**  **Three**) person(s) can use this machine at a time.
5. You can SAFELY cut ( **Slight**  **Sharp**) curves on the band saw.
6. Your fingers should stay ( **In front**  **To either side**) of the blade as you cut.
7. When cutting round or irregular-shaped stock you should use the ( **C-block**  **V-block**) to secure it.
8. You should use ( **Hand**  **Table broom**) to clean the top of the table off when you are finished.
9. You should use your ( **Hand**  **Scrap wood**) to push wood away from the blade.
10. It ( **Is**  **Is not**) SAFE to force wood into the blade.
11. Blades do occasionally break on this machine. If it does break you should:

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List five SAFETY procedures you should do before you operate this machine:

12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_

## ***Band Saw Written Test Key***

1. Highest
2. Should
3. Yellow
4. One
5. Slight
6. To either side
7. V-block
8. Table broom
9. Scrap wood
10. Is not
11. Turn it off and have someone get the teacher immediately.

List five safety procedures you should do before you operate this or any machine:

1. Tuck in your shirt.
2. Secure your hair.
3. Remove jewelry.
4. Wear Z87 safety glasses.
5. Work with a partner.
6. Listen for and report any problems immediately.
7. Make sure that all guards are in place and working.
8. No horseplay.
9. Keep work area clean.
10. Protect hands.

## ***Band Saw Hands-On Test***

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Subject: \_\_\_\_\_ Per: \_\_\_\_\_

1. What does it do? \_\_\_\_\_

2. Why is it useful? \_\_\_\_\_

3. Can the student identify this machine (point to it)? ( **Yes—*Band Saw Hands-On Test***  **No**)

4. Identify the following parts:

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> On/off switch  | <input type="checkbox"/> Lower wheel guard | <input type="checkbox"/> Miter gauge grove |
| <input type="checkbox"/> Table          | <input type="checkbox"/> Upper wheel guard | <input type="checkbox"/> Blade             |
| <input type="checkbox"/> Blade guard    | <input type="checkbox"/> Rear blade guard  | <input type="checkbox"/> Guidepost         |
| <input type="checkbox"/> Dust collector | <input type="checkbox"/> Kick-back zone    |  |

5. Safety procedures followed before using the machine:

- |  |   |
|--|---|
| <input type="checkbox"/> Shirt tucked in | <input type="checkbox"/> Z87 safety glasses                     |
| <input type="checkbox"/> Hair secured    | <input type="checkbox"/> Checks kick back zone                  |
| <input type="checkbox"/> Remove jewelry  | <input type="checkbox"/> Gets help from/helps partner as needed |

6. Procedures to set up for a cut:

- Set guard 1/4 inch above thickest part of the wood.
- Hands—fingers stay to the side of the blade, not in front of it.
- Push stick—uses one when needed, ALWAYS with the CO2 car or to remove scrap.
- Lowers guard—lowers the blade guard by hand, does not let it just drop.
- Feet—facing machine.
- Vents—double-check to see that they are on and open.
- Eyes—watches to see where the blade is going and to make sure that the hand is nowhere near the blade.

7. Makes two safe and successful operations:

- a)  Yes  No
- b)  Yes  No

8. Makes sure that the machine has been shut down properly, that the area is clean, and puts tools away.  Yes  No

## Band Saw Parts

