

Lesson #3: Band Saw Safety Video & Exam

Objectives

Students will be able to...

- Identify each of the major components of the Band Saw and their purpose.
- Describe the use and operation of the Band Saw.
- Demonstrate the safe operation of the Band Saw.

Common Core Standards

RSIT 11-12.2
RLST 11-12.2
Demonstration and Application 11.1
Problem Solving 5.1 & 5.4
Health and Safety 6.2 & 6.10
Responsibility and Flexibility 7.4
Technical Knowledge Skills 10.0
Cabinetmaking and Wood Products A 4.1, A4.3, A4.4, & A 6.1
Residential and Commercial Pathway D2.1, D2.3, D3.1, & D 5.2

Materials

YouTube Video <https://www.youtube.com/watch?v=wcc0HPVKEdE>
Band Saw Safety Exam

Lesson Sequence

- **Watch YouTube Video** <https://www.youtube.com/watch?v=wcc0HPVKEdE> and answer any questions that students may have. (15 minutes)
- Pass out **Band Saw Safety Exam**. No one starts a project until all the required safety tests are passed.
- Collect the tests when the students are done and re-distribute them to their classmates for grading. Have the students write “corrected by” and **print** their name somewhere on the front side of the test and circle it. Read and discuss each question with the correct answer. Take this opportunity to again reinforce/solidify operational safety in

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the student's minds. When finished, have the students write the number correct out of 19 on the front of the sheet and turn them in.

- Return tests that have any incorrect answers to their original owners. Have these students 'correct' each wrong answer by writing out the question (with the correct answer) on the back of the test 2 times. Students will retake the test tomorrow.

Assessment

Students must pass Safety exam before working on any projects.

Accommodations/Modifications

Read Aloud
High Light Important Information
One on One Support

Band Saw Safety Exam

Large	Adjustments	Movements	3/8"	Extension-table
Downward	Upward	2"	Thickness	Hands
1/4"	Dull	Width	Guarded	Spring block
Wheel	Backing-out	Moving-in	Safety-zone	Push-stick
Brake	Concentration	Blade	Disconnected	1/32"
Obstruction	5/8"	Grinding		

1. The band saw blade is continuous and rides on two wheels that must be _____.
2. The band saw blade will stretch, making it necessary to make frequent _____.
3. The blade guard must clear the material being cut by no more than _____.
4. When changing a band saw blade, make sure the teeth are pointing _____.
5. The recommended safe distance between your hand and the band saw blade is _____.
6. If the saw is running or is off, it is never safe to remove scrap by using your _____.
7. Lack of control and an unsafe situation is created if the band saw blade becomes _____.
8. The only safe way to stop a band saw blade is by using the factory-installed _____.
9. The minimum radius to be cut, using the band saw is determined by blade _____.

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10. When adjusting the band saw, make sure the blade is centered on the
_____.
11. You must wait until the saw has come to a complete stop before leaving the
_____.
12. Cutting small pieces of material is safely accomplished with a
_____.
13. In order to be safe when cutting larger material, you will need assistance or a
_____.
14. In order to do a quality job safely, the operator must have total
_____.
15. Be aware that at the completion of the cut, your hand can unexpectedly move towards the
_____.
16. Adjust the blade guides and support wheels when the saw is stopped and
_____.
17. The distance from the band saw blade to the blade support wheel, when the blade is stopped is
_____.
18. Make sure the material to be cut is free of foreign objects, such as nails or any other type of
_____.
19. When making radius cuts, always preplan your cuts in order to avoid
_____.

Band Saw Safety Exam – Answer Key

1. The band saw blade is continuous and rides on two wheels that must be **guarded**.
2. The band saw blade will stretch, making it necessary to make frequent **adjustments**.
3. The blade guard must clear the material being cut by no more than **1/4"**.
4. When changing a band saw blade, make sure the teeth are pointing **downward**.
5. The recommended safe distance between your hand and the band saw blade is **2"**.
6. If the saw is running or is off, it is never safe to remove scrap by using your **hands**.
7. Lack of control and an unsafe situation is created if the band saw blade becomes **dull**.
8. The only safe way to stop a band saw blade is by using the factory-installed **brake**.
9. The minimum radius to be cut, using the band saw is determined by blade **width**.
10. When adjusting the band saw, make sure the blade is centered on the **wheels**.
11. You must wait until the saw has come to a complete stop before leaving the **safety-zone**.
12. Cutting small pieces of material is safely accomplished with a **push-stick**.
13. In order to be safe when cutting larger material, you will need assistance or an **extension table**.
14. In order to do a quality job safely, the operator must have total **concentration**.
15. Be aware that at the completion of the cut, your hand can unexpectedly move towards the **blade**.
16. Adjust the blade guides and support wheels when the saw is stopped and **disconnected**.
17. The distance from the band saw blade to the blade support wheel, when the blade is stopped is **1/32"**.
18. Make sure the material to be cut is free of foreign objects, such as nails or any other type of **obstruction**.
19. When making radius cuts, always preplan your cuts in order to avoid **backing out**.