

Course Number: BS-14 101

Course Title: 14" BANDSAW

Course Hours: 1

Version: 1.1

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Course developed by MYNDERT J PAPENHUYZEN for use in training at the Education Center of the Greenville Woodworker's Guild, Inc. in Greenville, SC., and cannot be reproduced or used without the approval of the Mentoring Chairman of the Guild.

Safety is a personal issue. The Guild and the author do not accept responsibility for any accidents that may occur while using this guide.

I. COURSE OBJECTIVES

- Teach the safe use of the Band Saw
- Identify components of the band saw
- Replace band saw blades

II. CLASS MATERIALS

- 6" x 12" x $\frac{3}{4}$ " plywood
- 2" x 2" x 18" piece of lumber

III. LESSON PLAN

A. Explain Safety issues

- Never operate any machinery when tired, sleepy or under the influence of any medications which may cause drowsiness
- Wear clothing which holds close to the body. Shirts should be short sleeved. Pants should not snag on machinery

- Remove all jewelry possible. This includes watches, rings, and especially necklaces
- Footwear should be sturdy, have good traction and protect the toes. Sandals should be avoided
- Long hair should be secured under a cap so as not to hinder vision and pony tails should be tucked into the shirt
- Always wear approved safety glasses or goggles
- Always use hearing protection
- Always keep tool surfaces clean & clear of misc. materials
- Always be aware of other people operating in your vicinity
- Always provide proper support for materials as outlined later in this training plan
- Always make sure the tool is in proper working order
- Never use a dull tool
- Always seek assistance when handling heavy or awkward materials or anytime you are unsure about how to proceed
- Always respect the tool for what it may do to you or someone nearby if there is a lapse in safe operating procedures
- Never approach or distract another person operating a machine
- When machine is on a mobile base, ensure that wheels are locked and tool is steady
- DISCONNECT MACHINE FROM POWER SOURCE PRIOR TO MAKING ANY ADJUSTMENTS

B. Show the location of

- Power switch
- Blade guide
- Table tilting adjustment/locking mechanism
- Thrust and guide bearings
- Blade tensioning adjustment screw
- Blade tracking adjustment screw

C. Show how to

- Check blade tracking
- Adjust and check thrust and guide bearing adjustment
- Replace blade
- Set correct blade tension
- How to make a straight cut
- How to make a beveled cut (mitered)
- How to make a relieve cut
- How to make a compound cut
- How to resaw
- How to use a circle cutting jig

D. Review with the student the operations that have been covered in this lesson plan.

E. Performance testing and Certification

Secure appropriate materials and have the student perform different cutting operations explained to him/her.