

Course Title : Jointer Operation

Course Hours : 2-3 hrs

Course developed by Bill Keener 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.

1. Course Objectives:

- A. Learn the basic safe practices while operating the JOINTER
- B. Learn operating practices that are prohibited due to safety
- C. Learn how to select boards in the rough and prepare them before jointing.
- D. Learn how to flatten rough wood stock by removing cups, warps and twists on wide dimension or face of lumber.
- E. Learn how to straighten an edge by removing any warp or bow.
- F. Learn how to joint one face and one edge to make them geometrically perpendicular to each other.
- G. Learn proper procedure for feeding wood across the jointer.
- H. Learn proper use of push blocks.
- I. Learn how to set-up and use jointer fence for bevel cuts.

2. Class Materials

- A. One piece of cupped rough lumber
- B. One piece of warped rough lumber
- C. One piece of twisted rough lumber
- D. One piece of bowed rough lumber
- E. Push Blocks
- F. A piece of flat wood stock 6"x48"x 3/4" to practice passing material across jointer

3. Lesson Plan

Explain Safety Issues

- A. Never operate any machinery when tired, sleepy or while taking medications or drugs that might cause drowsiness.

- B. Do not wear baggy or loose fitting clothing
- C. Remove all jewelry where possible
- D. Footwear should provide good traction and protect the toes.
- E. Long hair should be secured under a cap so as not to hinder vision and pony tails should be secured.
- F. Always wear approved safety glasses or goggles.
- G. Always use hearing protection.
- H. Always keep tool surfaces clean and free of clutter.
- I. Always be aware of others working in the vicinity of the jointer.
- J. Always make sure the jointer is in proper working order. Any unusual noises or vibrations stop the jointer immediately and investigate cause.
- K. Never use the jointer with dull cutter blades
- L. Always provide sufficient support for material on both the infeed and outfeed side of the jointer
- M. **NEVER USE THE JOINTER WITH THE CUTTERHEAD SWING GUARD REMOVED.** Note No boards wider than 12"
- N. Always seek assistance when handling heavy or awkward boards or anytime you are uncomfortable or unsure how to proceed.
- O. Always respect the jointer for what it may do to you or someone nearby if there is a lapse in safe operating procedures.

ALTHOUGH THERE IS A GUARD ON THE JOINTER IT DOES NOT AFFORD MUCH PROTECTION. ON THE JOINTER IT DOES TELL YOU WHERE THE CUTTERHEAD IS LOCATED AND IT DESCRIBES THE BOUNDRIES OF THE DANGER ZONE . IT CANNOT TOTALLY PREVENT YOUR BODY PARTS FROM TRESPASSING UPON IT. REMEMBER THE GUARD ISN'T THERE TO SAVE YOU FROM CARELESS BEHAVIOR: YOU ARE TOTALLY RESPONSIBLE FOR YOUR OWN SAFETY.

Show the location of:

- A. Power on/off switch
- B. Circuit breaker for jointer

Show how to

- A. Raise and lower infeed table
- B. Adjust width of cutting surface and lock fence
- C. Adjust fence bevel

LIMITATIONS WHEN USING JOINTER: NO BOARDS WIDER
THAN 12" AND SHORTER THAN 12"