

Course Number : SCMS - 101

Course Title: 12 inch Slide Compound Miter Saw Operations

Course Hours: 2

Reference: Makita “Slide Compound Saw” Instruction Manual

Course developed by Ron Critser for use in training at the Education Center of the Greenville Woodworker’s Guild Inc. in Greenville, S.C., 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

- To recognize dangerous situations and their potential ramifications.
- To learn the correct and safe operating procedures related to the 12” Makita Slide Compound Saw, model LS 1212.
- To learn how to properly setup saw for various cutting operations.
- To identify *all* unsafe operating practices and idiosyncrasies related to the Makita LS 1212 Slide Compound Saw.

II. CLASS MATERIALS

- One (1) 1” X 6” X 48” piece of wood of choice.
- Hearing protection.
- Eye protection.

III. LESSON PLAN

A. Explain Safety Issues

Never operate any machinery while under the influence of any medications, alcohol or when tired or sleepy.

Wear close fitting clothing. Short sleeved shirts and pants that will not get caught on the machinery.

Remove all jewelry possible, rings, watches and especially necklaces. **DO NOT WEAR GLOVES**

Footwear should be sturdy with good traction and toe protection. Do not over reach .

Maintain a balanced stance at all times to avoid leaning on the machine or falling into it. Long hair should be secured to avoid hindering vision, and becoming caught in the machinery.

Wear proper safety glasses and hearing protection as necessary.

Be aware of others in the vicinity when operating the machine

Make sure the machine is in proper working order.

Always seek assistance if you are in doubt about procedure.

Be sure the floor around the machine is clean and will not interfere with good footing.

Do NOT force the machine to do an operation it was not designed to do.

Give your work your undivided attention. Remove work; turn off the machine before engaging in conversation.

Keep hands out of path of saw blade. Avoid contact with any coasting blade. It can still cause severe injury.

Do not operate saw without guards in place. Check blade guard for proper closing before each use. Do not operate saw if blade guard does not move freely and close instantly. Never clamp or tie the blade guard into the open position.

Do not perform any operation freehand.

Never reach around saw blade.

Turn off tool and wait for saw blade to stop before moving work piece or changing settings.

Unplug tool before changing blade or servicing.

To reduce the risk of injury, return the carriage to the full rear position after each crosscut operation.

If blade begins to bind during a cutting operation, do not continue to cut and release switch immediately. KICKBACK can occur causing loss of control and possible serious injury.

Avoid cutting nails. Inspect for and remove all nails from the work piece before operation.

Make sure the blade is not contacting the work piece before the switch is turned on.

Wait until the blade attains full speed before cutting.

Stop operation immediately if you notice anything abnormal.

NEVER hold workpiece on right side of blade with the left hand, or vice versa. This is called cross-armed cutting and exposes you to risk of a **SERIOUS PERSONAL INJURY**.

NEVER stack workpieces on the table top to speed cutting operations. Cut only one piece at a time.

Be alert at all times, especially during repetitive, monotonous operations. Do not be lulled into a false sense of security.

Keep your fingers as far away as practical from the path of the saw blade. NEVER place your fingers/hand within four inches of a moving blade.

.

B- Show location of:

Power receptacle

Safety switch

Dust collection gate

Tilt release

Hold down devices

Slide release

Miter angle adjustment release

Waste receptacle

C. Show how to:

Adjust miter angle

Bevel angle adjustment

Activate motor

Properly make cross cuts, miter cuts, and compound miter cuts

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

E. Performance testing and certification.

Student must adequately demonstrate the safe procedures in cutting the basic cuts on this sliding compound miter saw; (1) 90 degree miter cut, (2) 45 degree miter cut, (3) bevel cut and (4) compound miter cut. This demonstration must be both practical and oral in nature.