

Tool safety review for tools related to the framing project:

Hand Tools

Hand tools in poor condition are responsible for a vast number of injuries.

1. Wear **EYE PROTECTION** whenever using hand tools.
2. Have a proper storage location for your tools to protect them from loss or damage. After use, clean and **RETURN THEM TO THEIR PROPER PLACE** so they are always ready when you need them.
3. Never leave tools on floor, hanging over edges, on ramps or hoists where they could be forgotten or cause a tripping hazard.
4. When tools become worn or damaged, they should be repaired or replaced immediately. Show your instructor.
5. Use chisels, knives, blades that are sharp. Do not use blunt tools.
6. Use tools only for their intended purpose. For example, screwdrivers should not be used as pry bars – if they bend under load they are no longer useful and may be dangerous to use as a screwdriver.
7. Files should not be used as pry bars – they are extremely brittle and when breaking will release fragments which could injure or blind you.
8. **NEVER STAND BEHIND** anyone who is swinging a hammer. If you have to observe what is being done, stand off to the side out of the way of the hammerhead.

AT ALL TIMES – IF IN DOUBT, SEE YOUR INSTRUCTOR

Tool safety review for tools related to the framing project:

Machinery Guards

Guards are intended to prevent hair, clothing, hands, etc. from becoming entangled with parts of the machine, or to protect you from flying material, which could result in injuries.

1. Always wear **EYE PROTECTION** when using power tools and machines. Long hair must be contained in a cap or net. Don't wear loose clothing or jewelry.
2. **BEFORE OPERATING ANY MACHINE FOR THE FIRST TIME**, ask your instructor to explain the function of the guards and to demonstrate them in operation.
3. Certain types of guards are adjustable. Make sure that the guards are adjusted to give maximum protection.
4. Machines with **LOOSE OR POORLY SECURED GUARDS** must not be operated until guards have been properly adjusted.
5. **NEVER OPERATE ANY MACHINE WITH THE GUARDS REMOVED OR DAMAGED**. Inform your supervisor or instructor of the situation.
6. **ALWAYS CHECK YOUR MACHINE GUARDS** to make sure they are in place and operating, before using the machine. Re-check the guards after every set-up of the machine.
7. If you have occasion to remove a machine guard for any purpose, ensure that the **MACHINE IS SECURELY "LOCKED OUT"** to prevent its being activated while the guard is out of place. Your instructor must supervise this operation.
8. When you replace a guard check its performance before using machine.
9. Report all **UNGUARDED AND INADEQUATELY GUARDED** equipment promptly to your instructor.

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Tool safety review for tools related to the framing project:

Mitre Saw

1. Wear Personal Protective Equipment (PPE) such as safety glasses, safety goggles, face shields, gloves and proper clothing as appropriate. No loose clothing, long hair or jewelry is allowed in the shop.
2. Do not operate the mitre saw without the instructor's permission.
3. Follow the manufacturer's instructions for changing tool accessories.
4. Clamp all material firmly and properly.
5. Ensure you are aware of the blade path before you make your cut.
6. When you cut short pieces make sure your left hand is clear of the blade path.
7. Watch for kick back when cutting short pieces.
8. Long stock pieces should be supported safely.
9. Students who are left handed must use their right hand for cutting operations.
10. When making angle cuts ensure the blade has adequate clearances.
11. Your body position should always be left of the blade assembly when operating this saw.
12. When using a sliding mitre saw, ensure the blade clears stock sizes before cutting operations.
13. Make sure all guards are in place and properly adjusted.

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Tool safety review for tools related to the framing project:

Power Tools (1)

1. Wear Personal Protective Equipment (PPE) such as safety glasses, safety goggles, face shields, gloves and proper clothing as appropriate.
2. Do not operate power tools without the instructor's permission.
3. Do not wear loose clothing or jewelry when operating power tools. Long hair must be tied back.
4. Follow the manufacturer's instructions for lubricating and changing tool accessories.
5. Keep guards in place and follow lockout/tag-out procedures.
6. Know the purpose of each tool you use, and use each for the specific task it was designed to do.
7. Always use two hands on the tool when operating. Clamp work piece to a solid surface; do not attempt to hold work piece with hand or foot.
8. Unless it's designed for it, never use a portable electric tool where there are flammable vapors or gases present.
9. Electrical cords must be in good condition; report any broken, damaged or bare cords. Keep cords away from heat, oil, and sharp edges
10. All power tools must be effectively grounded and/or be of the double insulated type.

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Power Tools (2)

11. If the tool is equipped with a three-prong plug, it should be plugged into a three-hold electrical receptacle. Never remove the third prong.
12. Never use power tools in damp or wet locations or if the worker is perspiring. Moisture helps electricity flows more easily through the body.
13. Rubber gloves and footwear are recommended when working outdoors in damp conditions.
14. Never carry a tool by its cord, or pull the cord to disconnect it from a receptacle. Never carry a plug-in tool with your finger on the switch.
15. Unplug tools before replacing any broken, dull or damaged bits or blades.
16. Be careful not to overreach. Keep your balance and proper footing when working with power tools.
17. When you have completed an operation with a power tool, switch it off and lay the tool down in a safe manner after it stops. Keep the rotating blade or bit away from your legs and body.
18. Keep floor around work area clean.
19. Be sure the power switch for a portable tool is “off” before plugging it in.

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Tool safety review for tools related to the framing project:

Table Saw

1. Wear Personal Protective Equipment (PPE) such as safety glasses, safety goggles, face shields, gloves and proper clothing as appropriate. No loose clothing, long hair or jewelry is allowed in the shop.
2. Do not operate the table saw without the instructor's permission. Follow the manufacturer's instructions for changing tool accessories.
3. Be aware of the position of the on/off switches and emergency **STOP** button.
4. Make sure the floor is clear in the work area.
5. Check the blade for flaws (replace if damaged, worn, or dull) Make sure auto kick-back is in place. Secure the fence position before beginning. Always keep the work firmly down on the table while pushing it past the blade.
6. Always "lock-out" the table saw before changing blades.
7. Never reach over the blade.
8. Always use a push stick when the fence is set under 3" to the blade.
9. Ask for assistance when working with large pieces.
10. Wear a dust mask when cutting treated wood or when there is a fine dust hazard.
11. Stand clear of possible kickback. Keep your hands clear of the blade path.
12. When working with a partner ensure you have clear communication. The second person should stand behind and to the left of the blade.
13. Do not feed the material faster than the saw will accept.
14. Use a fence when making a rip cut and a mitre gauge to make cross-cuts. Never cut a piece of material free-hand. Keep the work against the fence throughout the operation.
15. Report all unguarded and inadequately guarded equipment promptly to your instructor.
16. Always check the machine guards to make sure they are in place and operating, before using the machine.

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