

Chainsaws

Chainsaws - Safe Use of Chain Saws

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What are some general tips to know when using chain saws?

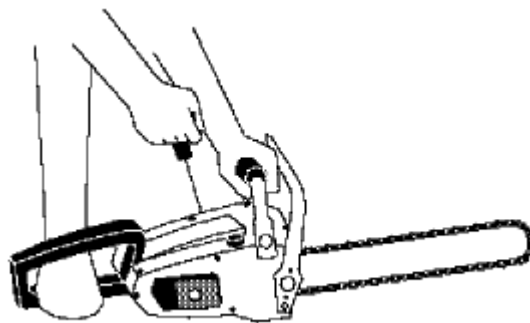
- Only use chain saws that you have been trained to use properly and safely.
- Read the owner's manual carefully.
- Make sure you understand instructions before attempting to use any chain saw.
- Review pertinent health and safety legislation before operating a chain saw.
- Operate, adjust, and maintain saws according to the manufacturer's directions and to standards such as the CSA Standard Z62.1-15 (R2024) "Chain Saws" or ANSI standard B175.1-2021 "Outdoor Power Equipment - Internal Combustion Engine-Powered Hand-Held Chain Saws - Safety and Environmental Requirements". Both standards describe safety requirements for the design of chain saws and include recommendations on how to use chain saws safely.
- Operate the chain saw in well-ventilated areas only.
- Wear personal protective equipment and clothing. For more detailed information, see OSH Answers [Chain Saws—Personal Protective Equipment](#).
- Ask questions if you have any doubts about doing the work safely. Safety procedures that you follow will also depend on where the sawing is carried out (e.g., on the ground or at height in a tree or elevating device) and what kind of hazards are present, including trip, slip, snag, and fall hazards.
- Only operate saws when you are well-rested. Fatigue causes carelessness. Be cautious before breaks and at the end of the shift.
- Have all required supplies and equipment with you before you start the work.

- Be aware of your surroundings – weather conditions, terrain, wildlife, buildings, powerlines, vehicles, and other people.

What are some safety tips to know when starting the saw?

DO

- Use only chain saws that have been manufactured and maintained appropriately, and that are equipped with a safety chain and chain brake. Check legislation in your jurisdiction for other requirements.
- Know how to use the controls before starting a chain saw.
- Remove the chain bar guard (scabbard) and inspect the saw and machine for damaged, loose, missing parts, or other signs of wear, or leaks around the engine before starting. See OSH Answers document [Chain Saws - Maintenance and Service](#).
- Ensure that the guide bar is tight and the chain fits snugly without binding. Adjust the chain tension, if required.
- Inspect the saw chain to ensure it is properly lubricated and sharp. Sharpen and lubricate, as needed.
- Check the air filter and clean it when needed.
- If present, check the muffler spark arrestor screen. Spark arrestor screens help reduce the risk of fire, especially in dry forest conditions.
- Inspect the chain catcher. It helps reduce the risk of injury when a chain breaks or comes off the guide bar.
- Ensure that the chain is clear of obstructions before starting.
- Engage the chain brake before starting the chain saw.
- Ensure that you have secure footing and that your stance is well-balanced.



- Hold the saw firmly on the ground using your foot, or by holding the powerhead down with one hand. Point the chain away from your body and nearby obstructions. Use a quick, sharp motion on the starter cord.
- Warm up the saw prior to cutting. The saw should idle without the chain turning. If the chain continues to turn after the throttle switch is released, stop the saw. Then adjust the idle as shown in the owner's manual.
- Check that the throttle trigger, throttle trigger interlock, master control lever, etc. are operating properly.

DO NOT

- Do not use a saw if it is damaged, improperly adjusted, or has loose or missing parts.
- Do not "drop start" (starting a saw while only in your hands) or when a chain saw is touching your body. This method leaves only one hand to control a running saw and can result in leg cuts.
- Do not start a saw unless it is at least 3 metres (10 feet) from any approved fuel safety containers.
- Do not make adjustments to the chain or guide bar when the motor is running.

What precautions should I take when fueling a chain saw?

- Follow the manufacturer's directions for the oil/gas mixture to be used.
- Use only safety containers for storing and dispensing fuel that have been approved by standards like the CSA International B376:22, "Portable Containers for Gasoline and Other Petroleum Fuels," or by agencies like Underwriters' Laboratories (UL or ULC [Canada]).
- Do not refuel a running or hot saw.
- Dispense fuel at least 3 metres (10 feet) away from sources of ignition.
- Use a funnel or spout for pouring. Wipe off any spills.
- Mix fuel in a well-ventilated area. Keep a well-maintained fire extinguisher nearby.
- Do not smoke or allow any ignition sources while refuelling.
- For electric and battery-operated chain saws, follow all manufacturer's instructions on safe use, including how to [safely charge](#) and start the chain saw.

What should I do and not do when cutting?

DO

- Plan each job before you start. Arrange to have help.
- Carry the chain saw by its front handle, with the muffler away from your body and the guard bar pointing behind you.
- Know the location of the persons working with you at all times.
- Use the correct saw. The weight, power, and bar length should all be suitable for the job.
- Operate the chain saw in a firm two-handed grip with fingers and thumb surrounding the handles. Keep both feet firmly positioned when operating a chain saw.
- Maintain full power throughout each cut.
- Ensure that the chain does not move when the chain saw is idling.
- Turn off the chain saw before refuelling or doing any maintenance.
- Keep your saw clean – free of sawdust, dirt and oil.
- Wear safety gloves or mitts when sharpening the chain.
- Take precautions to prevent [kickback](#).

DO NOT

- Do not start a chain saw when it is resting against any part of your body.
- Do not stand directly behind the saw.
- Do not leave a saw running unattended.
- Do not carry chain saws while it is running. See our OSH Answer on [Chain saws - Handling, Transportation, and Storage](#).
- Avoid contact with the muffler. Serious skin burns may result.
- Do not cut alone.

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