



Chainsaw Safety

Many public agencies are now tasked with removing numerous dead or dying White Ash trees from public properties due to the Emerald Ash Borer Beetle. This has caused a significant increase in the use of chainsaws by local government employees, making it an excellent time to review some vital safety information.

A chainsaw is a very productive and efficient tool when used correctly. However, operating a chainsaw is a dangerous job. Proper training and safety protocols must be followed at all times.

Before Each Use

Before using a chainsaw, be sure to read and understand the owner's manual. Inspect the saw thoroughly by checking the bar and chain for proper tension and making sure that the chain is sharp. **A sharp chain is much safer than a dull chain and allows the saw to perform its job efficiently and with less effort from the operator!**

Ensure all bolts and handles are tight and in place, and test the chain brake to ensure it is functioning correctly. Make sure the starting and throttle controls are all working correctly according to the manufacturer's specifications. Also, look for any noticeable damage and debris lodged in the saw from previous use, which may affect safe operation.

Starting the Saw

Fuel the saw at least 10 feet away from ignition sources, and remember always to fill up the bar oil reservoir each time you fuel the saw.



It's always best to start the chainsaw on the ground with the chain brake engaged. Place the right foot inside the rear handle and the left hand firmly on top of the handlebar. Follow the manufacturer's throttle and choke positioning recommendations, pull the starter rope hard, and straight up to start the saw. The starter rope may take several sharp pulls to start the saw when the engine is cold.

Personal Protective Equipment

OSHA standards state that the following protective equipment must be used when operating a chainsaw:

- Head protection, such as a hard hat
- Hearing protection sufficient to reduce noise exposure to 90 decibels or less
- Eye/Face Protection such as safety glasses and a face shield
- Appropriate protective footwear per OSHA standards
- Leg protection such as chainsaw pants or Kevlar® or ballistic nylon chaps
- Work gloves; Kevlar® gloves are recommended

Many chainsaw injuries occur on the top of the left thigh, making the use of chaps or chainsaw pants extremely important. It is recommended that your agency has one pair of chaps for every chainsaw so that every chainsaw operator can be protected.

This bulletin is intended for general information purposes only. It should not be construed as legal advice or legal opinion regarding any specific or factual situation. Always follow your organization's policies and procedures as presented by your manager or supervisor. For further information regarding this bulletin, contact your Safety Director at 877.398.3046.

Operation

- Chainsaws are right-handed; operator's right hand on the rear handle and left hand on the forward handlebar.
- Know where the tip of the bar is at all times and maintain sound footing. Steady yourself physically to control the movements and reactions of the saw.
- Keep your body positioned just to the left of the bar and chain. Do not center your body over the material you are cutting.
- OSHA requires a second person observe at a safe location. They may see potential dangers that you can't and can give you a warning.
- **Stay alert and situationally aware.** Be attentive to where other people, structures, power lines, and other obstacles are.
- Avoid striking the ground, rocks, sand, or any foreign objects while cutting. Not only is it dangerous for the operator, but the chain will dull immediately.
- Do not saw from the downhill side, and always watch for tensions and compressions of the wood you are cutting. Never operate a chainsaw above shoulder height.
- Do not carry a running chainsaw for a long distance. For a short distance, make sure the chain brake is engaged. When carrying a non-running saw to the work area, make sure the bar is facing the rear.
- Take breaks as needed as fatigue increases the risk for accident and injury.
- Clean and properly maintain the saw after use before storing it for the next operator.

Kickback

One of the most dangerous occurrences associated with chainsaw use is 'kickback.' Each year, there are approximately 35,000 chainsaw-related injuries, and over 7,500 of those are related to kickback. Kickback occurs when the upper tip of the bar comes in contact with a solid object and jerks upwards suddenly, potentially causing injuries to the face, neck, shoulder, and hand. A chainsaw operating at full throttle is often running at over 12,000 RPM. When kickback occurs, it typically happens much faster than the operator can react to it. The saw's chain brake is designed to stop the chain from moving in the event of kickback, either from inertia or by the top of the operator's left hand striking the chain brake.

Proper Grip

Always wrap the left thumb around the handlebar when operating a chainsaw. Not only is your grip much more substantial, but in the event of a kickback, the saw will rotate inside of your grip on the handlebar to engage the chain brake. It is unsafe to rest the left thumb on top of the handlebar, as the saw is more likely to break free during a kickback. The operator may lose control of the saw, and the chain brake may not engage properly.





Key Takeaways

- Make sure you are appropriately trained before using a chainsaw and have read and understood the owner's manual.
- Inspect the saw thoroughly before each use.
- Maintain proper chain tension and keep the chain sharp!
- Start the saw on the ground and wear proper PPE.
- **ALWAYS** wrap the left thumb completely around the forward handlebar.
- Know where the tip of the bar is to avoid kickback.
- Control the saw-don't let it control you.
- Stay alert and have a second person observing at a safe distance.

A properly maintained chainsaw is a valuable and essential power tool that is dangerous to operate. However, when used safely and responsibly, it can complete tasks that would be nearly impossible to do by hand.

STAY SAFE!
