

U.S. Department of Agriculture Forest Service	1. WORK PROJECT/ACTIVITY Chainsaw, Crosscut & Handtool Use	2. LOCATION Flathead National Forest	3. UNIT Spotted Bear R.D.
JOB HAZARD ANALYSIS (JHA) References-FSH 6709.11 and -12 (Instructions on Reverse)	4. NAME OF ANALYST Jim Flint	5. JOB TITLE AFMO	6. DATE PREPARED 1/8/19
7. TASKS/PROCEDURES	8. HAZARDS	9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE	
Power Tool Use (Chainsaw) (22.48) (22.48c) (22.48d) (22.48e)	Injury	<ul style="list-style-type: none"> - Power tools will only be used by trained personnel over the age of 18 - All sawyers are required to attend a saw training course before operating a chainsaw and are only allowed to saw within their individual rating qualifications - The crew working with a chainsaw operator must never approach unannounced - During Felling operations KEEP AT LEAST TWO-TREE LENGTHS BETWEEN YOU AND THE FELLER - Keep a safe distance from an operating saw as it can throw material nearly 25 feet - Protective equipment must be worn at all times when operating a chainsaw (Hardhat, goggles and/or face shield, hearing protection, chaps, 8" high boots, a long sleeve shirt and gloves) - Gloves must be worn when handling or performing maintenance on a chainsaw with an unguarded chain. - Operators must be aware of the presence and location of other personnel - Lookouts may be posted when necessary to control the work area - Not recommended to operate a chainsaw alone - A ten person first aid kit is required to be carried during all saw operations. - Individual saw operators have the obligation to say "NO" and walk away from any situation they determine to be an unacceptable risk 	
Chainsaw Handling Techniques (22.48f)	Cuts	<ul style="list-style-type: none"> - Carry the chainsaw in a way to prevent contact with the chain, muffler, or bucking spikes - When carrying a saw on your shoulder, take extra care due to the sharpness of the chain and "dogs". Wear a long-sleeved shirt, gloves, and a shoulder pad. Cover the bar and chain. Use of a bar and chain guard is recommended - Set the saw at idle speed and activate the chain brake when carrying a saw for short distances - Shut off the saw when carrying it more than 50 feet, or in hazardous conditions, such as slippery surfaces, heavy under-brush or crossing streams 	
Starting/Operating Chainsaws (22.48f)	Cuts	<ul style="list-style-type: none"> - Maintain a secure grip on the saw at all times, with thumb in proper sawing position wrapped around the handle. - Use proper starting procedures, Do Not "drop start" - Do not cut with powerhead above shoulder height 	

		<ul style="list-style-type: none"> - Always use both hands when operating the saw
Fueling Chainsaws (22.48f)	Burns	<ul style="list-style-type: none"> - Allow the saw to cool before refueling - Fill the tank on bare ground or other noncombustible surface - Refuel outdoors and at least 20 feet from an open flame or other sources of ignition - Start the saw at least 10 feet from the fueling area
	Kickback	<ul style="list-style-type: none"> - All chain saws must have a chain break - Maintain proper grip and body position - Check for anything that may interfere with saw while cutting
	Felling	<ul style="list-style-type: none"> - Clear work area and escape route - Adhere to proper felling techniques - Maintain control of felling area - Visually check top of tree for overhead dangers (Widowmakers)
	Weather	<ul style="list-style-type: none"> - Do not fell trees if the wind is strong or changing directions - Wear proper clothing
Hand Tool Use (41.13) (41.21)	Cuts	<ul style="list-style-type: none"> - Prior to use, inspect hand tools for loose heads and split, cracked, checked or warped handles. Do not use tools with these defects. - Separate and flag for repair all damaged or unsafe tools - For all chopping and digging tool use wear proper clothing: long pants, boots, long sleeve shirt, gloves, eye protection - Chop with both feet on the same side of the tree, standing on top of the tree is not recommended - When limbing on the side you are standing do not allow the handle to rotate past parallel to the ground, chop limbs on opposite side of tree if possible - Do not allow two people to chop together on the same tree - Check for and remove all overhead obstructions prior to swinging a hand tool - If the cutting edge picks up a wood chip, stop, remove the chip before continuing - Be aware of foot position - Maintain a firm grip on hand tools to prevent loss of control in the event of a glancing blow - Keep tools sharp to help prevent bounce backs - When a tool is not in use, shield any sharp edges and place the tool in a safe location - Maintain safe working separation, at least 10 feet apart - Do not carry chopping tools on your shoulder - Carry the tool on the downhill side so that it can be more easily discarded in case of a fall,

		<ul style="list-style-type: none"> - Do not throw tools as this may damage the tool causing failure and injury during subsequent use. - When transporting tools to and from the job site, ensure that sharp edges are guarded - Never transport loose tools inside the same compartment with employees unless the vehicle is equipped with a protective screen, net, or secured toolbox
Tool Maintenance (41.21)	Sharp edges	<ul style="list-style-type: none"> - Wear gloves and use controlled strokes when sharpening - Firmly secure tool when sharpening - When filing, use a file equipped with a handle and guard - Use sharp files, discard dull files - When grinding, grind slowly away from the cutting edge, avoid overheating the metal - Do not sharpen tools with power grinder without eye and ear protection and leather gloves and apron
Crosscut Saw Use (22.48h)	Cuts	<ul style="list-style-type: none"> - Think before you cut - Keep sheath on saw when not in use - Eliminate obstacles in work area - Pick up the saw with teeth away from your body - When attaching handles, keep the teeth away from your body and secure a firm grip on the saw - Maintain proper body position and ensure stable footing prior to beginning the cut - Do not position your leg under the crosscut while sawing - NEVER reach across a moving crosscut - Ensure hands are in proper position on the crosscut handles - Keep in communication with your partner at all times about holding wood, binds, limbs, and knots that might affect safety - When using a two-person crosscut saw for bucking, ensure that any person placed downhill is in a safe position. If this is not possible single buck from the uphill side - When using a two-person crosscut saw for falling, always predetermine who will remove the saw - Use wedges to prevent saw from becoming pinched - Keep teeth out of dirt and rocks to maintain sharpness - When situations are deemed unsafe, use alternate methods or cancel the task
Crosscut Transport - personnel (22.48h)	Cuts	<ul style="list-style-type: none"> - Remove the rear handle when transporting a crosscut on your shoulder. If left on, the rear handle will catch on trees and branches. - Balance the crosscut on your shoulder with the sheath on the crosscut and the teeth facing away from your neck - Carry the saw on the downhill side - Walk last in line if you are the person carrying the crosscut saw

<p>Transporting Crosscuts On Pack Animals (22.48h)</p>	<p>Stock Injury</p>	<ul style="list-style-type: none"> - DO NOT bend the cross cut around and lock the handles – the saw will break - Select a reliable pack animal to carry a crosscut saw. - Pack the crosscut over well matched loads - Ensure the sheath adequately guards the saw - Ensure the handles are firmly tightened in place - Center the crosscut on the pack animal draped over both packs, tie both handles to the packs and also tie the center of the crosscut to the highest point on one of the packs - Periodically check that the saw and loads are secure and have not shifted - It is recommended to have two people to load and unload the saw 	
<p>10. LINE OFFICER SIGNATURE</p>		<p>11. TITLE</p> <p style="text-align: center;">District Ranger</p>	<p>12. DATE</p>

Previous edition is obsolete

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