FS-6700-7 (11/99)

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U.S. Department of Agriculture 1. WO Forest Service		ORK PROJECT/ACTIVITY		2. LOCATION	3. UNIT Blue Ridge, Ocoee/Hiwassee,	
	2015-1	1083150-005		Benton MacKaye Trail and its associated corridor and connecting trails	Cheoah/Tusquitee, Conasauga, and Tellico Ranger Districts	
JOB HAZARD ANALYSIS (JHA) References-FSH 6709.11 and -12 (Instructions on Reverse)	4. NAM	ME OF ANALYST	l Harley	5. JOB TITLE Partnership, Volunteer & Service Programs	6. DATE PREPARED 5/24/13	
Chainsaw Operation: employee must have prior instructions by competent individuals before falling trees. Personal Protective Equipment (PPE)			This activity is "extremely" dangerous. Timber falling is the most dangerous occupation in the woods. Hardhat with chinstrap. Chaps, eye and ear protection, sturdy boots (*8 inches high with lugged soles), long pants, long sleeve shirt and gloves			
		Area Size up Surrounding	Determ and the the tree shifting, tree's b Before predete cutting a	termine natural lean and condition of tree (rot, splits, loose bark etc.) of the best direction to be felled. Be aware of other trees leaning into tree being felled. Be aware of snags in the area. Do not cut during fiting, high or gusty wind conditions. Clean materials away from the e's base that may pose a hazard. Avoid cutting above your shoulders fore cutting determine your primary and secondary escape routes to a determined safe area. Using the saw: prepare your escape route by ting all tripping hazards. Keep proper spacing between operators (at set two tree lengths).		
		Saw Cuts and Flying Material	is 80% at same should I wood.	Use open face method – notch is greater than 90 degrees – notch width is 80% of diameter, ie, 20" tree means notch width is 16". Bore into tree at same height as middle of notch to set up holding wood. Holding wood should be 10% of tree diameter, ie, a 20" tree would have 2" of holding wood. Use wedges where appropriate and finish back cut at the same neight as bore cut. Leave no Dutchman.		
Back cut Wedging and Falling Material Announce		Announce Felling	Notify others in the area that the tree is about to fall. Make the back cut slightly above (approximately 2 inches under cut), must be level and even. Remove loose bark before beginning back cut. Utilize swamper lookout under adverse conditions. Wedge tree as soon as possible after beginning back-cut continue with the back-cut and tamp in wedges periodical.			

Being hit by Falling Trees and Pieces	Watch-outs	A – Attachment 5, Chainsaw JHA When the tree begins to fall, withdraw the saw from cut and shut off. Retreat to your safety area at an angle, not straight back. Do not turn your back on a falling tree. Continue to watch for falling limbs and/or other trees after the tree hits the ground. Try to avoid hanging tree up i standing timber. Do not attempt to fall trees without all the essential equipment. This equipment includes: PPE, chainsaw, small axe and swamper. See H &SC 3-15 and Fallers Buckers Handbook for more information.		
Swamping	Being Cut by a Fellow Worker running the Brushcutting Saw	Maintain a safe distance that is twice the length of the Brushcutting Saw.		
Saw Maintenance and Fueling	Safe Guards	Keep chain sharp and with proper tension at all times. Use gloves whenever working with the chain. Beware of hot muffler. Ensure chain brake is working properly. Ensure the carburetor is adjusted properly so the chain doesn't run at an idle. Stop saw If the bar oil runs out before the saw gas does. Fix pinched bar guide rails, bent bars or damaged tips immediately. Use proper saw gas and oil fuel mixture. Never use motor oil or bar lubricant to mix with saw gas. Clear an area around saw of flammable materials before fueling. No smoking during fueling. Do not start the saw at the point of fueling. All timber fallers shall carry at least an 8-ounce fire extinguisher during the fire precaution period.		
Extra Equipment	Tools	Keep axes sharp and handles tight and non-cracked. "Never" use wooden or metal wedges. Keep burs filed or cut down on plastic wedges. Use only approved gas and oil containers. Utilize bar covers when saws are transported and stored.		
Bucking Felled Trees and Kickback Shifting or Rolling Logs	Bucking	Watch saw tip and avoid cutting only with tip of bar. Always keep a firm grip on the saw. When bucking logs, be aware of the direction the logs may roll or move after bucking. Do not stand on the downhill side of logs.		
Limbing		Stand on the opposite side of the tree from the side you are limbing; watch the saw tip. Use extra caution with spring poles.		
Cuts of axe	Tools Caution	Be alert and handle tools with care. Use the proper carrying method. Keep the sharp side of tool down. Keep the cover on axe when not in use. Add wedges to tool handles when loose or cracked.		
Bee and Insect Kits	Sting Kits	Wear protective clothing and be aware of bee activity and nest sites; I.E. rotten logs, down logs, hollow logs, etc.		
Fatigue and Heat Stress	Body Stress	Set the pace, take frequent short breaks if necessary and carry and drink plenty of water. Pat attention to your physical condition. Stay alerts at all times and watch your step.		

Fire Hazard	Fire Watch	After sawing, stay in the area for 10 to 15 min	utes to watch for fires.
0. LINE OFFICER SIGNATURE		11. TITLE District Ranger Forest Supervisor	12. DATE 8/26/15

JHA Instructions (References-FSH 6709.11 and .12)

The JHA shall identify the location of the work project or activity, the name of employee(s) involved in the process, the date(s) of acknowledgment, and the name of the appropriate line officer approving the JHA. The line officer acknowledges that employees have read and understand the contents, have received the required training, and are qualified to perform the work project or activity.

- Blocks 1, 2, 3, 4, 5, and 6: Self-explanatory.
- Block 7: Identify all tasks and procedures associated with the work project or activity that have potential to cause injury or illness to personnel and damage to property or material. Include emergency evacuation procedures (EEP).
- Block 8: Identify all known or suspect hazards associated with each respective task/procedure listed in block 7. For example:
 - a. Research past accidents/incidents.
 - Research the Health and Safety Code, FSH 6709.11 or other appropriate literature.
 - c. Discuss the work project/activity with participants.
 - d. Observe the work project/activity.
 - e. A combination of the above.
- Block 9: Identify appropriate actions to reduce or eliminate the hazards identified in block 8.

 Abatement measures listed below are in the order of the preferred abatement method:
 - Engineering Controls (the most desirable method of abatement).
 For example, ergonomically designed tools, equipment, and furniture.
 - Substitution. For example, switching to high flash point, non-toxic solvents.
 - Administrative Controls. For example, limiting exposure by reducing the work schedule; establishing appropriate procedures and practices.
 - d. PPE (least desirable method of abatement). For example, using hearing protection when working with or close to portable machines (chain saws, rock drills, and portable water pumps).
 - e. A combination of the above.
- Block 10: The JHA must be reviewed and approved by a line officer. Attach a copy of the JHA as justification for purchase orders when procuring PPE.

Blocks 11 and 12: Self-explanatory.

Emergency Evacuation Instructions (Reference FSH 6709.11)

Work supervisors and crew members are responsible for developing and discussing field emergency evacuation procedures (EEP) and alternatives in the event a person(s) becomes seriously ill or injured at the worksite.

Be prepared to provide the following information:

- a. Nature of the accident or injury (avoid using victim's name).
- b. Type of assistance needed, if any (ground, air, or water evacuation).
- Location of accident or injury, best access route into the worksite (road name/number), identifiable ground/air landmarks.
- d. Radio frequencies.
- e. Contact person.
- f. Local hazards to ground vehicles or aviation.
- g. Weather conditions (wind speed & direction, visibility, temperature).
- h. Topography.
- i. Number of individuals to be transported.
- j. Estimated weight of individuals for air/water evacuation.

The items listed above serve only as guidelines for the development of emergency evacuation procedures.

JHA and Emergency Evacuation Procedures Acknowledgment
We, the undersigned work leader and crew members, acknowledge participation in the
development of this JHA (as applicable) and accompanying emergency evacuation
procedures. We have thoroughly discussed and understand the provisions of each of these
documents:

SIGNATURE	DATE	SIGNATURE	DATE
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