

U.S. Department of Agriculture Forest Service	1. WORK PROJECT/ACTIVITY Mower and Brushcutter Operation under 12- SV-11080500-005	2. LOCATION Florida National Scenic Trail	3. UNIT NF's in FL
JOB HAZARD ANALYSIS (JHA)	4. NAME OF ANALYST	5. JOB TITLE	6. DATE PREPARED
References-FSH 6709.11 and -12	Megan Eno	FNST Partnership Coordinator	06-30-2013
7. TASKS/PROCEDURES	8. HAZARDS	9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE	
Pre-use Inspection of Equipment	Loose objects	<ul style="list-style-type: none"> Inspect equipment blades, sheels, guards, handle and engine for loose, worn, broken or missing parts. Reference equipment operations manual for parts and maintenance. 	
Operator	Lack of familiarity with equipment	<ul style="list-style-type: none"> New operators should be trained on-site by experienced operators, review and ference owner operation manual. • No one should operate equipment alone. 	
Fueling Area	Spills, Fire	<ul style="list-style-type: none"> Allow equipment to cool for at least 5 minutes before re-fueling. Use fuel spout or funnel. Ensure correct fuel mixture. • Fill only from known and properly marked fuel containers. • Wear eye protection to prevent splash to eyes. Clean up spills and flush from skin. • Protect fueling area for at least 25 feet from ignition sources or smoking. 	
Work Area	Damage to mower, injury to operator or bystanders Slopes	<ul style="list-style-type: none"> Clear area of all personnel and inspect route to be travelled for downed trees, debris that should be removed from equipment path or provide tripping hazard. Stop operation to allow people to pass as needed. • Guards shall never be removed or modified. • Equipment shall not be operated on slopes exceeding 30%. The center of gravity for equipment varies greatly and trail terrain is apt to change. 	
Maintenance	Prevention of hazards and bodily harm	<ul style="list-style-type: none"> Out of service equipment must be clearly marked while stored. Review manufacturer's recommended maintenance procedures and complete annually, and as needed. • At minimum, remove sparkplug wire before service or repair. • Wear appropriate PPE including; eye protection, gloves, long sleeved shirts 	
Operating Equipment	Bodily injury, cuts	<ul style="list-style-type: none"> Keep hands and feet from under mower and away from cutting blades. Wear proper PPE including; eye protection, gloves, hardhat, hearing protection, long sleeve shirt, boots with sturdy sole, and cut resistant material • Never lift or tip a running piece of equipment. • Turn off before clearing debris or making adjustments. 	
Loading mowers in to truck or trailer	Back injury or bodily harm	<ul style="list-style-type: none"> Lift with legs, not back, always use two people with a firm hold. Ensure trailer/ramps are in good working condition and properly secured. 	
Trailer Towing	Vehicle Damage	<ul style="list-style-type: none"> Park where backing is not necessary. Set parking brake, block tires if on a slope. walk around vehicle before backing and use a spotter if backing is necessary. 	
See- Trail Maint. JHA, Trailhead Specific Comm. Plan (TCP) and EmeResponse Plan (ERP)		<ul style="list-style-type: none"> Refer to the FNST General Trail Maintenance JHA for hazards and mitigation for environmental hazards, hiking and working in the backcountry, and also communication and emergency response 	
10. LINE OFFICER SIGNATURE	11. TITLE	12. DATE	
/s/ Susan Jeheber-Matthews	Forest Supervisor	8-5-13	

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.
- b. 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:

- a. Engineering Controls (the most desirable method of abatement). For example, ergonomically designed tools, equipment, and furniture.
- b. Substitution. For example, switching to high flash point, non-toxic solvents. Work Leader
- c. 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).
- c. 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
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____