IIC Department of	A =! =14	1 WORK PROJECTA OF	DI IVENT		FS-6700-7 (11/99)
U.S. Department of A		1. WORK PROJECT/ACT		2. LOCATION	3. UNIT
#72	***	Trail construction		Green Mountain and Finger	All
	VOIC (III.A)	with hand tools		Lakes National Forests	100 (100 (100 (100 (100 (100 (100 (100
JOB HAZARD ANAI References-FSH 6709		4. NAME OF ANALYST		5. JOB TITLE	6. DATE PREPARED
(Instructions on F		Seth	Coffey	Recreation Technician	5/31/2018
7. TASKS/PROCEDURES (List them in the order they will occur)		ZARDS en and to whom? atcome of exposure?	Engineering Co	9. ABATEMENT ACTIONS ontrols * Substitution * Administrative Controls (state Training * PPE Be specific – who needs to do what?	f you considered these)
Provide training	Lack of training/or to personal injury	rientation leads	trained/orier below. Project super communicate Repeat trainitype of work The general Cassesses the lawhich all empthis informat. Crew member required by th	visor shall ensure that all workers ated on the hazards and abatement visor shall ensure that all workers unanticipated hazards not listed to make the site conditions or work provided to Working Safely Outdoors of hazards and abatement actions for bloyees may be exposed. Personne	be alert to and below. blunteer begins this rocesses change. In the GMFL (JHA #0) work activities to a shall be familiar with the fire of the hand tools onstrated their ability
Pre-job preparations – tool maintenance	Cuts to body (hand slivers in hands	ds). Metal	 Prior to filing, When sharpen small circles a Follow sharpe Never sharper Inspect for and 	gloves and protective eyewear when fit the file with handle and knuckle ing an axe or Pulaski blade with a st cross and into the blade. ning guidelines carefully. cutting edges all the way to the food remove slivers and cracked handles ard tools with bent, broken, or missing the food of the control of t	guard. one, work the stone in plate.

LIC Description of C	A 1.	1 WORK PROVICES CO		T	FS-6700-7 (11/99)
U.S. Department of Forest Serv		1. WORK PROJECT/ACT		2. LOCATION	3. UNIT
W- 0.01 5050 1		Trail construction		Green Mountain and Finger	A 11
#72		with har	d tools	Lakes National Forests	All
JOB HAZARD ANA		4. NAME OF ANALYST	37	5. JOB TITLE	6. DATE PREPARED
References-FSH 670 (Instructions on I		Seth	Coffey	Recreation Technician	5/31/2018
7. TASKS/PROCEDURES (List them in the order they will occur)	8. HA What will happ What will be the o	ZARDS en and to whom? utcome of exposure?		9. ABATEMENT ACTIONS ontrols * Substitution * Administrative Controls (state i Training * PPE Be specific – who needs to do what?	if you considered these)
Transporting tools	Loose tools in vehice causing serious in vehicle occupants Tools being carrie cuts during a slip/	s during a crash jury or death to d could cause	unless the veh or tie down street or tie down street Tools carried fixed tool box. Pickups used ("headache ra" Have proper some Grasp cutting head. Carry tools bleet Carry cross-cut facing away from the carry tools on the carry tools on the carry tools on the carry tools or the crosscut saw). Suspend part of the carry tools on the carry tools or the carry the crosscut saw).	to transport tools should be equipped ck") heath/guard on tools when transportitions around the shoulder of the hand ade down. It saws on the shoulder, sheathed, with the neck, and with the rear handle downhill side so they can be discard tools on shoulder, unless specified in	cured stationary toolbox bols during a crash. In securely or carried in with a cab guard and or carrying. It is the saw teeth the removed. It is to do so (ex. rock bars) on 2" wide
	¥			uries to wrists and hands.	
	28				
General lifting, moving heavy objects, and physical exertion	Being in poor phy using improper lift while lifting heavy rocks, logs, and of increases the risk lifelong back, join injuries that limit	ting technique y objects like her materials of debilitating, t, or muscular	prior to begins and lower bac strength. If yo expectations j physical stren	gin a physical strengthening programming trail maintenance work. Focus of k, abdominal, and wrist, arm, should to u or crew members have not done to for the first few weeks to allow a per togthening. keep your head up, back straight, but	especially on upper er, knee, ankle this, reduce output iod of time for

II.C.D.		I WORK DROWN ON			FS-6700-7 (11/99)
U.S. Department of A		1. WORK PROJECT/ACT		2. LOCATION	3. UNIT
#72	cc	Trail construction with han		Green Mountain and Finger Lakes National Forests	All
JOB HAZARD ANAI	YSIS (JHA)	4. NAME OF ANALYST		5. JOB TITLE	6. DATE PREPARED
References-FSH 6709 (Instructions on F	9.11 and -12	Seth	Coffey	Recreation Technician	5/31/2018
7. TASKS/PROCEDURES (List them in the order they will occur)	What will happ	ZARDS en and to whom? utcome of exposure?	Engineering C	9. ABATEMENT ACTIONS ontrols * Substitution * Administrative Controls (state Training * PPE Be specific – who needs to do what?	if you considered these)
	your job or other leading large item result in crushed for toes, and feet.	ns like rocks can	Bend knees, s people to do e kneeling or or other methods Keep the load As you lift or your back in i back). Do not rotate carrying a load Roll rocks ins Work slowly to	never reach your hands below your quat (squats are hard on knees and xcept for light loads so minimize squate methods), kneel one or both kneet to lift heavy objects or make repeat close to your body. set down heavy objects, lift your chats neutral strong position (to avoid related of lifting them wherever possible to prevent crushing hands and feet. uty gloves.	difficult for most quat lifts – use ees on ground, or use ted lifts. in up to help keep ounding your lower right while lifting or ble.
General trail maintenance and construction		sult in a variety of npact injuries, and	pants, and lon Whenever usi shelter site, w point suspens ANSI Z89.1 2 Discard old ha any signs of d abuse.	tool-specific PPE, wear leather glove g-sleeved shirts while performing trong hand tools and/or when leaving a sear a hardhat in good condition - presion system. Hardhat should have a leaving and the system are the state of hardhats that have been in the system and the system are that the system is that the system are t	ail maintenance. In developed trail or eferably one with a six abel that it meets In a developed trail or eferably one with a six abel that it meets In pacted or that show door signs of general

II.O. D.		T			FS-6700-7 (11/99)
U.S. Department of Forest Servi		1. WORK PROJECT/ACT		2. LOCATION	3. UNIT
	ce	Trail construction	and maintenance	Green Mountain and Finger	A 11
#72		with har	nd tools	Lakes National Forests	All
JOB HAZARD ANAI		4. NAME OF ANALYST	18	5. JOB TITLE	6. DATE PREPARED
References-FSH 6709 (Instructions on F		Seth	Coffey	Recreation Technician	5/31/2018
7. TASKS/PROCEDURES (List them in the order they will occur)	8. HA What will happ	ZARDS ben and to whom? outcome of exposure?	the sides of th	9. ABATEMENT ACTIONS ontrols * Substitution * Administrative Controls (state Training * PPE Be specific – who needs to do what? e brim are squeezed together.	if you considered these)
	12		• Never throw to	ools under any circumstances.	
	* :			s not in use, place a guard on any shared etermined location, away from pe	
Using chopping, cutting, or grubbing, or digging tools such as Pulaski, axe, mattock, shovel, or grub hoe.	Cuts to self, injury by lack of PPE or Impact injuries to bystanders from f sticks, chunks of fragments, etc. Glancing blows we cause serious cuts Using the wrong to tool breakage or p	self or lying tool parts, soil, rock with cutting tools to self.	 Never hit a cu Wear leather g Wear protective standards whee Keep a minime swinging hand Remove overl Remove bysta Use a tool onl Special precaution To minimize the should not dreated by t	we eyewear stamped or labeled as more in sharpening and using tools. um of 10 feet distance between tool it tools. nead obstructions like branches. nders from work area or stop work to y for its intended purpose. nes for chopping tools: the risk of lower leg injuries when cloop below parallel to ground unless chancing, keep the striking angle of the to the tree trunk. I shin/leg guards (use lightweight place)	user and others while o allow them to pass. hopping, tool handle hopping from behind a e tool head almost astic type that is easy cosscut saw use.

U.S. Department of	A ari aultura	1 WORK PROJECTAC	TIMEN	A LOGATION	FS-6700-7 (11/99)
Forest Servi		1. WORK PROJECT/AC		2. LOCATION	3. UNIT
#72		Trail construction		Green Mountain and Finger	All
A STATE OF THE STA	-	with har		Lakes National Forests	7 111
JOB HAZARD ANAL References-FSH 6709		4. NAME OF ANALYST		5. JOB TITLE	6. DATE PREPARED
(Instructions on F		Seth	Coffey	Recreation Technician	5/31/2018
7. TASKS/PROCEDURES (List them in the order they will occur)	What will happ	ZARDS en and to whom? utcome of exposure?	Engineering Co	9. ABATEMENT ACTIONS ontrols * Substitution * Administrative Controls (state Training * PPE Be specific – who needs to do what?	if you considered these)
Removing light brush	Cuts to shins resul	t from lack of	 Required PPE 		
and herbaceous plant	PPE and improper	cutting or	1. Gloves		
growth with weed whips	chopping techniqu	•		eyewear meeting ANSI standards	
etc.			3. Shin guard		
					1
8)	8			eed whip blades are and heads are ti	ght with no loose
32	6 8		bolts, etc.	INC	
>	t-		Keep weed wh	nip users at least 20 feet from others	
Using striking tools	Eye injuries to use	er or bystanders	 Tool user mus 	t wear leather gloves.	
such as hammers,	due to high speed	wood chips, steel		all nearby workers must wear safety	olasses that meet
sledges,	shards from tool h	eads, nails etc.	ANSI standard		grasses that meet
	v .	F 8	50	bystanders away from work area or	stop work to allow
			them to pass.	by standers away from work area or	stop work to allow
0				s for cracks and flaws to prevent bre	okina
. *				tool heads – ax, hammer, Pulaski, s	
	E2			loose parts must be removed from s	
			until it is repai	ired. Makeshift repairs are not allow	ved.
			N.	8	<u> </u>
Using prying, digging,	Bent tools can rota		• Remove bent	bars from service immediately.	1
or tamping tools such	causing serious in	pact injury to		aight while pushing or lifting on too	1.
as Peavies, rock bars,	tool user(s)	vene 27		torso while lifting or pushing on too	
pry bars, tamping bars.	2.5		Do not rotate	torse while many or pashing on too	1.
	Back injuries due	to bending torso			
	while exerting for	ce on tool.			
Using chainsaws,			Refer to specific 1	HAs for these tools.	
			Terei to specific J	TIAS IOI MESE MOIS.	
icrossciii sawe nowered					
crosscut saws, powered pole pruners					

JHA #72 FS-6700-7 (11/99) U.S. Department of Agriculture 1. WORK PROJECT/ACTIVITY 2. LOCATION 3. UNIT Forest Service Trail construction and maintenance Green Mountain and Finger All with hand tools Lakes National Forests JOB HAZARD ANALYSIS (JHA) 4. NAME OF ANALYST 5. JOB TITLE 6. DATE PREPARED References-FSH 6709.11 and -12 Seth Coffey Recreation Technician 5/31/2018 (Instructions on Reverse) 7. TASKS/PROCEDURES (List 8. HAZARDS 9. ABATEMENT ACTIONS them in the order they will occur) What will happen and to whom? Engineering Controls * Substitution * Administrative Controls (state if you considered these) What will be the outcome of exposure? Training * PPE Be specific - who needs to do what? Emergency response Lack of emergency response plan Have a First Aid kit onsite in each vehicle. causes delays in obtaining Notify the project leader of any injury or incident and complete the emergency medical treatment necessary injuries reports. Document the following information on the tailgate safety meeting form attached below for each work location and ensure that all crew members have this information readily available: 1. Means of communication (radio, cell, satellite) 2. Primary contacts (rescue squad, F.S. dispatcher, relay person) 3. Travel routes for emergency responders 4. Location of closest medical facilities 5. How to contact them (phone #s) Keep a two-way radio or cell phone available in case of an emergency and a fully stocked crew type first aid kit on site. Be able to describe crew location to emergency medical responders. Contact them prior to starting work in case directions are difficult to give to an E-911 operator. All crew members should have access to a map and directions to the nearest medical facility and the location of the crew vehicle keys. Do not attempt to transport someone with serious injuries. Call emergency responder for this kind of transport. Avoid working alone. If you are working alone, leave a specific itinerary with another person 10. LINE OFFICER SIGNATURE 11. TITLE 12. DATE Forest Supervisor

Previous edition is obsolete

John A. Sinclair

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.
 - b. Substitution. For example, switching to high flash point, non-toxic solvents.
 - 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).
- 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		SIGNA	TURE	DATE	
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PROJECT/ACTIVITY LEADER TAILGATE SAFETY MEETINGS

Instructions

and Safety Code Handbook, past experience, general safety/situational awareness guides, etc.) Add any hazards that do not appear on the FS6700-7, Jab Hazard Analysis. List sources reviewed (JHA, Health change in worksite location or other condition. If this is a one-person job or activity, you are the project leader. To be completed by project leader at the worksite prior to beginning job and when the hazards change due to a

Project/Job/Activity	Project/Activity Leader
Others attending:	
Describe Work:	
Identify & list hazards; hazard reducing work procedures discussed with crew:	cedures discussed with crew:
Protective Equipment Required by JHA:	
	9
Additional protective Equipment Needed:	
Start of Project (date)	
To be filed at end of project in Tailgate Meetings file in your organization's office	file in your organization's office.
Signature of Project/Activity leader:	Date Discussed with Crew:

Si