

## JOB SAFETY ANALYSIS

**ORGANIZATION:** Spooky Beavers

**DATE:** 2/21/2019

**JOB TITLE:** Proper Use of Hand Tools/Blazing Trails

**NEW:** X

**LOCATION:** PRWI

**Reviewed By/Approved By:** Kathy Kimmitz/Mark Ellis (PATC)

### REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT:

Hard hats, safety glasses, gloves, safety vests (if needed), sturdy work boots

TOOLS	SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED ACTION OR PROCEDURE
Pulaskis, Axes Mcleods, Shovels, Picks, Digging bars, Mattocks,	Tool inspection	Injuries from the use of unsafe tools.	Check tool heads & handles routinely. Handles should be smooth, straight & free of cracks. Tool heads/blades should be without burrs or cracks & secure on the handle. An unsafe tool should be repaired or be taken out of service & red tagged. Cutting surfaces should be kept sharp.
Hazel hoes, Loppers, Pruning saws, Tampers, Pitch forks,	Job/tools required	Personal/coworker injury from improper transportation.	Know the job you will be doing to get the right safety gear/tools. Carry tools close to the body to ensure movement will not injure others, tools should not be attached to the worker preventing him/her from separation in the event of a fall. Keep plenty of distance between each worker (recommended 10 feet). Utilize sheaths when transporting.
Log tongs, Hand Files,	Use a mcleod to remove debris & the duff layer down to mineral soil & scatter duff.	Possible injury to self/coworker from swinging tools.	Maintain minimum of 10 ft. apart from coworkers when swinging tools. Wear properly fitted gloves to help prevent blisters, splinters, cut & other injuries to hands.
Sledge Hammers,		Injury due to tripping on hand tools left on the ground.	Place tools in a safe & visible position off the trail & out of walking path. Group tools when possible.
Splitting wedges,		Muscle & back injuries/fatigue while using hand tools.	Position self properly inline with work to avoid unnecessary bending, lifting & twisting combinations. Work facing uphill when possible to reduce the amount of bending. Use proper lifting techniques (lift with legs not back). Never lift and turn simultaneously. Utilize stretching techniques prior to commencing work.
Come-along,	Use a pulaski, mattocks, pick or hazel hoe to loosen soil & rock, cut roots & grade surface.	Loosing control of tool while using it (especially under wet conditions)	Maintain a safe working distance between coworker. Maintain a firm grip on hand tools. Clear the area of any obstacles in the swing radius or reposition self.
		Eye injury due to flying rock	Use safety glasses \ goggles when breaking up rocky soil &

		fragments from breaking up rock with tools.	maintain a safe working distance.
	Cut shrubs & trees. Set aside logs useful for cribbing & stash brush & other logs out of site.	Eye injury due to moving through dense brush while stashing waste.	Use safety glasses/goggles if stashing material in dense vegetation. Find or clear a safe route to hide material. Utilize crew in a chain
		Injury to body from carrying material to be stashed over poor walking surfaces	Utilize crew in a chain formation to dispose of large volumes of brush & logs to reduce the amount of walking. Cut logs into manageable lengths or use methods listed below.
	Securely place log cribbing where necessary to contain fill material for trail tread.	Injury due to muscle strains from heavy lifting.	Utilize digging bars, log tongs, come-alongs and/or grip hoists as weight & crew size dictate. Always use proper lifting techniques. Ask for assistance with heavy lifting.
		Injury caused by log rolling onto personnel.	Maintain control over log at all times & communicate procedure steps among crew. Stay uphill from moving log when possible.
	Compact loose soil using a tamper or mcleod.	Injury from handle contacting body when tamping on rocks, roots or uneven ground that may force tool out of control.	Maintain firm grip on tool handle & safe working distance.
Paint/brushes	Fume inhalation, spills	Inhalation of fumes. Spills on skin.	Paint/blaze with caution. Do not inhale paint/solvents.