

JOB SAFETY ANALYSIS

Safety Information for the University of California, Berkeley

FACILITIES SERVICES

USING AN ANGLE GRINDER

TASK	HAZARDS	CONTROLS
1. Check cord integrity.	Hand cut from cut wires.	Wear leather gloves. Inspect slowly.
2. Check conditions of grinding wheel and appropriate RPM.	(None foreseen)	
3. Check grinding wheel tightness.	Hand injury from inadvertent starting	Do not plug in the machine until inspection is complete.
4. Verify the guard is tight and appropriate for the job.	Foot injury from dropping the tool	Rest the tool on the bench. Wear steel-toed shoes.
5. Verify the appropriate handle location.	Foot injury from dropping the tool	(See controls for Task 4.)
6. Inspect trigger for physical damage and proper operation.	(None foreseen)	
7. Make sure the materials being ground are adequately secured and positioned correctly.	Injuries associated with the work propelled by the grinder and/or landing on you	Verify the work is adequately secured by trying to dislodge it with a gloved hand (the work weight may secure it enough). Wear steel-toed shoes.
8. Plug-in the grinder.	Eye and skin damage from projectiles.	Check the trigger switch to insure it is off.
9. Begin grinding.	Eye injuries from projectiles and sparks	Wear safety glasses/goggles and a face shield.
	Skin damage from sparks and projectiles	Wear leather gloves, long sleeved shirt, long pants, or leather welding guards.
	Hearing loss	Wear ear plugs.

		Ergonomic considerations.	Change position from time to time. Wear vibration resistant gloves.
		Inhalation of toxic or irritant fume or particulate	Wear the appropriate respirator based on the content of the metal and its coatings. Contact EH&S (2-3073) for evaluation and exposure assessment. Use local or dilution ventilation to direct or collect fumes and/or particulate
	Required Training: 1. Operation of the angle grinder 2. Hearing protection 3. Eye protection	Required Personal Protective Equipment (PPE) 1. Leather gloves 2. Eye and face protection 3. Body covering 4. Foot protection	
Other Information: Contributors: Created: JSA Library Number:	EH&S Specialist Gary Bayne; Senior Lab Mechanician David Maclam December 2002 FS-06 For more information about this JSA, contact the <i>Office of Environment, Health and Safety</i> at UC Berkeley, 317 University Hall #1150, Berkeley, CA 94720-1150 (510) 642-3073 ● http://www.ehs.berkeley.edu <i>The development of Job Safety Analyses is a Balanced Scorecard initiative of the AVC-BAS Safety Committee, sponsored by the Associate Vice Chancellor-Business and Administrative Services (AVC-BAS) and the AVC-BAS Leadership Team ● http://bas.berkeley.edu/balancedscorecard</i>		