

JOB SAFETY ANALYSIS

Safety Information for the University of California, Berkeley

DEPARTMENT OF MECHANICAL ENGINEERING

OPERATING AN ELECTRIC POWER SHEAR

TASK	HAZARDS	CONTROLS
1. Assess work area; is it clear of obstructions and slip/trip/fall hazards?	<ul style="list-style-type: none">• Slip, trip, or fall	<ul style="list-style-type: none">• Clear work area of any obstructions or slip/trip/fall hazards
2. Align material to fence and blade	<ul style="list-style-type: none">• Lacerations to fingers/hands on material• Pinching hazards for hands/fingers• Unintentionally triggering the shear by accidentally stepping on the treadle	<ul style="list-style-type: none">• Deburr material before handling, do not slide hand along edges, wear leather gloves if necessary• Keep hands and fingers away from pinch points• Turn off machine or engage the treadle lock until you're ready to make the cut
3. Depress foot treadle	<ul style="list-style-type: none">• Pinching hazards for leg and foot• Muscle strain• Pinching hazards for hands/fingers• Lacerations to fingers/hands on blade• Shattering material may cause damage to eyes• Excessive noise levels	<ul style="list-style-type: none">• Keep leg and foot free from support arms• Position body to maintain balance, maximize use of legs to avoid twisting• Keep hands/fingers away from finger guards and material holddowns• Keep hands/fingers well behind the cutting blade• Always wear safety glasses when operating equipment• Wear ear plus/muffs if necessary

Other Information: Contributors: Created: JSA Library Number:	<p>4. Retrieve material</p>	<ul style="list-style-type: none"> • Lacerations to fingers/hands from material • Unintentionally triggering the shear by accidentally stepping on the treadle 	<ul style="list-style-type: none"> • Be aware of fresh sharp edges, deburr material, do not slide hand along edges, wear gloves if necessary • Turn off machine or engage the treadle lock while retrieving material
	<p>Required Training: Student Shop Safety Training Program Must complete additional training under guidance of a qualified Student Shop Laboratory Mechanician</p>	<p>Required Personal Protective Equipment (PPE) Leather gloves, safety glasses, ear plugs/muffs</p>	
	<p>Wysong 1048 Shear Manual Scott G. McCormick; R&D Engineering Manager, Jacob Gallego; Principal Lab. Mech. July 2020 (EH&S will insert number here, if applicable)</p> <p>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</p>		