

JOB SAFETY ANALYSIS

Safety Information for the University of California, Berkeley

DEPARTMENT OF MECHANICAL ENGINEERING OPERATING A HORIZONTAL BAND SAW

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. Maintain a dry floor
2. Load material into machine	<ul style="list-style-type: none">• Pinching hazards for hands/fingers• Muscle Strain• Lacerations to hands/fingers from material	<ul style="list-style-type: none">• Keep hands and fingers clear from pinch points• Ask for assistance in placement of material if it is more than 25lbs or an awkward shape• Deburr material before handling, don't run hands along edges of material
3. Use vise to secure work in machine	<ul style="list-style-type: none">• Work coming loose or falling out• Pinching hazards for hands/fingers	<ul style="list-style-type: none">• Tug on work and check if secure prior to starting cut• Keep hands and fingers away from vise jaws when in motion
4. Prepare for drop pieces	<ul style="list-style-type: none">• Drop piece falls on operators leg or foot	<ul style="list-style-type: none">• Support drop pieces prior to cut, do not stand near drop area
5. Check coolant level in reservoir tank and refill if necessary	<ul style="list-style-type: none">• Work piece getting hot, causing burns• Coolant spills can create slipping hazards	<ul style="list-style-type: none">• Observe coolant level and verify coolant flow. Direct coolant flow onto material - blade interface• Immediately wipe up and clean coolant spills. Place "wet floor" signs if necessary

Other Information: Contributors: Created: JSA Library Number:	6. Begin cut	<ul style="list-style-type: none"> Lacerations to hands and fingers from material Lacerations to hands and fingers from blade Eye injury from flying debris 	<ul style="list-style-type: none"> Don't support the drop piece with your hands; use a material support stand instead. Keep hands and fingers away from moving blade Wear safety glasses at all times when operating equipment
	7. Remove work	<ul style="list-style-type: none"> Pinching hazards for hands/fingers Lacerations to hands and fingers from blade Lacerations to hands and fingers from material 	<ul style="list-style-type: none"> Keep hands free from pinch points Turn off power to the machine before raising the blade Be aware of fresh sharp edges produced from the cut; deburr parts before handling, never run hands along edges of material
	Required Training: Student Shop Safety Training Program (<i>Phase I</i>) Special permission required to use DoAll C916M	Required Personal Protective Equipment (PPE) Safety glasses	
	<p>DoAll C-916M H. Band Saw 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>		