

# JOB SAFETY ANALYSIS

Safety Information for the University of California, Berkeley

## DEPARTMENT OF MECHANICAL ENGINEERING

### OPERATING A SHEET METAL BRAKE

TASK	HAZARDS	CONTROLS
1. Assess work area; is it clear of obstructions and slip/trip/fall hazards?	<ul style="list-style-type: none"><li>Slip, trip, or fall</li></ul>	<ul style="list-style-type: none"><li>Clear work area of any obstructions or slip/trip/fall hazards</li></ul>
2. Operate handle to raise upper leaf of brake	<ul style="list-style-type: none"><li>Pinch hazards for fingers/hands</li></ul>	<ul style="list-style-type: none"><li>Keep hands and fingers away from pinch points</li></ul>
3. Feed sheet metal into brake	<ul style="list-style-type: none"><li>Muscle Strain</li><li>Lacerations to hands/fingers from material</li></ul>	<ul style="list-style-type: none"><li>Ask for assistance if material is over 25 lbs or is awkwardly shaped; use correct lifting form</li><li>Deburr material before handling, do not slide hand along edges of material, wear gloves if necessary</li></ul>
4. Operate handle to lower upper leaf of brake and lock material in place	<ul style="list-style-type: none"><li>Pinch hazards for fingers/hands</li></ul>	<ul style="list-style-type: none"><li>Keep hands and fingers away from pinch points</li></ul>
5. Pull handle to operate brake	<ul style="list-style-type: none"><li>Muscle strain</li><li>Eye injury from fractured material</li><li>Pinch hazards for fingers/hands</li></ul>	<ul style="list-style-type: none"><li>Position body to maintain balance, avoid twisting and overextending</li><li>Always wear safety glasses when operating the equipment</li><li>Keep hands and fingers away from pinch points</li></ul>
6. Operate handle to raise upper leaf of brake and remove material	<ul style="list-style-type: none"><li>Pinch hazards for fingers/hands</li><li>Muscle Strain</li><li>Lacerations to hands/fingers from material</li></ul>	<ul style="list-style-type: none"><li>Keep hands and fingers away from pinch points</li><li>Ask for assistance if material is over 25 lbs or is awkwardly shaped; use correct lifting form</li><li>Do not slide hand along edges of material, wear gloves if necessary</li></ul>

<b>Other Information:</b> <b>Contributors:</b> <b>Created:</b> <b>JSA Library Number:</b>	<b>Required Training:</b> Student Shop Safety Training Program Must complete additional training under guidance of a qualified Student Shop Laboratory Mechanician	<b>Required Personal Protective Equipment (PPE)</b> Leather gloves, safety glasses
	<p> <a href="#">Pexto PX24-A Box Pan Brake Manual</a>, <a href="#">Chicago Brake Manual</a>            Scott G. McCormick; R&amp;D Engineering Manager, Jacob Gallego; Principal Lab. Mech.            July 2020            (EH&amp;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 • <a href="http://www.ehs.berkeley.edu">http://www.ehs.berkeley.edu</a> </p>	