## Job Safety Analysis

Safety Information for the University of California, Berkeley

### Department of Mechanical Engineering

**Operating a Vertical Band Saw**

### Task | Hazards | Controls
--- | --- | ---
1. Assess work area; is it clear of obstructions and slip/trip/fall hazards? | Slip, trip, or fall | Clear work area of any obstructions or slip/trip/fall hazards
2. Align materials flat on the table | Pinching hazards for hands/fingers | Keep hands and fingers away from pinch points
| Lacerations to hands/fingers from material | Deburr material prior to handling, **wear gloves only when loading/unloading material**
| Muscle strain | Position body to maintain balance, avoid twisting and overextending, and ask for assistance with heavy or awkward workpieces
3. Adjust and position blade guard to no more than ¼” above the top surface of the material | Pinching hazards to hands/fingers | Avoid pinch point between guard and housing and between guard and material
4. Begin sawing | Lacerations to hands/fingers from moving blade | Keep hands/fingers well away from moving blade, use push stick/mitter gauge/vise for small materials
| Eye injury from flying debris | Always wear safety glasses when operating machine
| Excessive noise levels | Wear hearing protection if necessary
| Burns from overheated materials | Use wax to lubricate the blade and reduce friction
| Entanglement of operator | Never wear loose clothing when operating, tie hair back, tuck in drawstrings
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<tr>
<th>Other Information:</th>
<th>Required Training:</th>
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<tbody>
<tr>
<td>Contributors:</td>
<td>Student Shop Safety Training Program (<em>Phase I</em>)</td>
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<td>Created:</td>
<td>Required Personal Protective Equipment (PPE)</td>
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<td>JSA Library Number:</td>
<td>Leather gloves, safety glasses, ear plugs/muffs</td>
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Other Information:

- Scott G. McCormick; R&D Engineering Manager, Jacob Gallego; Principal Lab. Mech.
- July 2020
- (EH&S will insert number here, if applicable)

For more information about this JSA, contact the Office of Environment, Health and Safety at UC Berkeley, 317 University Hall #1150, Berkeley, CA 94720-1150 (510) 642-3073. [http://www.ehs.berkeley.edu]