# JOB SAFETY ANALYSIS

Safety Information for the University of California, Berkeley

## DEPARTMENT OF MECHANICAL ENGINEERING

### OPERATING A HORIZONTAL BAND SAW

<table>
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<tr>
<th>TASK</th>
<th>HAZARDS</th>
<th>CONTROLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <strong>Assess work area; is it clear of obstructions and slip/trip/fall hazards?</strong></td>
<td>• Slip, trip, or fall</td>
<td>• Clear work area of any obstructions or slip/trip/fall hazards. Maintain a dry floor</td>
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<tr>
<td>2. <strong>Load material into machine</strong></td>
<td>• Pinching hazards for hands/fingers • Muscle Strain • Lacerations to hands/fingers from material</td>
<td>• 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</td>
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<tr>
<td>3. <strong>Use vise to secure work in machine</strong></td>
<td>• Work coming loose or falling out • Pinching hazards for hands/fingers</td>
<td>• Tug on work and check if secure prior to starting cut • Keep hands and fingers away from vise jaws when in motion</td>
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<tr>
<td>4. <strong>Prepare for drop pieces</strong></td>
<td>• Drop piece falls on operators leg or foot</td>
<td>• Support drop pieces prior to cut, do not stand near drop area</td>
</tr>
<tr>
<td>5. <strong>Check coolant level in reservoir tank and refill if necessary</strong></td>
<td>• Work piece getting hot, causing burns • Coolant spills can create slipping hazards</td>
<td>• 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</td>
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6. Begin cut

- Lacerations to hands and fingers from material
- Lacerations to hands and fingers from blade
- Eye injury from flying debris
- 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

- Pinching hazards for hands/fingers
- Lacerations to hands and fingers from blade
- Lacerations to hands and fingers from material
- 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 (*Phase I*)
Special permission required to use DoAll C916M

**Required Personal Protective Equipment (PPE)**
Safety glasses

**Other Information:**

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