Tool Proficiency Project: *Vertical Band Saw*

Instructions for Lab Assistant:

**Before You Begin This Proficiency Assessment:**
- Watch the training video for the vertical band saw: [https://youtu.be/yvxOyRzjx9E](https://youtu.be/yvxOyRzjx9E)
- Read and understand all safety instructions associated with the equipment

**SETUP INSTRUCTIONS**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item Description</th>
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<tbody>
<tr>
<td>1</td>
<td><em>Vertical Band Saw</em></td>
</tr>
<tr>
<td>1</td>
<td><em>Piece of square stock</em></td>
</tr>
<tr>
<td>1</td>
<td><em>Length Round stock or tubing</em></td>
</tr>
<tr>
<td>1</td>
<td><em>Un-mounted vise</em></td>
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</tbody>
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- Have square and round stock ready
- Band saw in its usual configuration. Fine toothed blade installed, ~3” exposed blade height

**YOUR TASKS**
- Explain the rule determining the minimum thickness of material that can be cut with a given blade.
- Show how to change a blade – or know enough to ask for technician support.
- Cut a 3” piece of square stock
- Cut a 3” piece of round stock

**Proficiencies to Demonstrate on the Vertical Band Saw:**
- Proper utilization of all personal protective equipment.
- Determine minimum thickness of material that can be cut with the installed blade
- Change the height of the blade guide
- Show proper use of a push block
- Properly secure round stock for cutting
- Show how to determine proper blade speed and change it if necessary