

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>
- Read and understand all safety instructions associated with the equipment

SETUP INSTRUCTIONS

Quantity	Item Description
1	<i>Vertical Band Saw</i>
1	<i>Piece of square stock</i>
1	<i>Length Round stock or tubing</i>
1	<i>Un-mounted vise</i>

- 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