

Name _____

Lab # 7 -- Woodworking #2

Description: Sawhorse project. Skills: angle cutting, plan reading, wood selection, layout, and tool use. This project should test your ability to complete a project with minimal help.

Materials:

4 - 2x4x25" Fir Legs
2 - 2x3x 3" blocks
4 - 1/2" plywood gussets
1 - 2x6x36" Fir Top

8 - #8x2 1/2" Deck Screws
10d Box nails
8d Box nails
Glue

Tools:

Power Miter Saw
Drill Press
1" Drill
Radial Arm Saw
Circular Saw
Keyhole or Saber Saw
Wood Rasp
Palm Sander
Cordless Screwdriver

Directions:

1. Review the plan. Select your lumber and determine the best layout.
 2. What is the desired angle for cutting the legs, block, and gusset? _____
 3. *Cut the legs and block from 2x4 stock on the power miter saw set to the desired angle. Calculate the length of the block by measuring the width of the legs (across the angle cut).
 4. *Rip plywood to 7 1/2" (gusset height) on the table saw and layout the gusset angles and cut angles on the power miter saw or band saw.
 5. Assemble the legs and gussets using glue and 8d nails for the plywood and 10d for the block. Use 8 nails per gusset.
 6. *Cut the 2x6 top to length using the circular saw.
 7. Locate and bore the two 1" holes at the ends of the slot.
 8. Assemble the top and leg assemblies (no glue, so top can be replaced) with four screws/leg. LAYOUT the location so the screws are evenly spaced.
 9. Cut out the slot with the saber saw and smooth with a rasp and sandpaper. DO NOT use the saber saw to "trim" the slot. This will ruin the blade.
 10. Sand edges.
- * Project can be started at this point.

Grading:

Name:

Criteria (tolerance 1/8")	Possible	Score
Size top	4	
Size legs, sawhorse height	8	
Angles	4	
Slot (location, size)	6	
Cuts clean and square	4	
Workmanship (fit, screws, finish)	4	
TOTAL	30	

