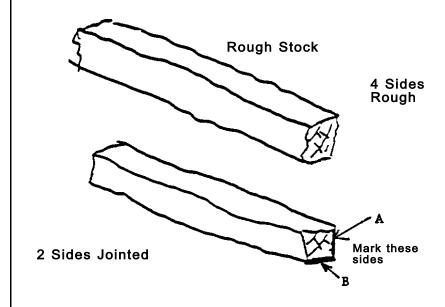
Exercise 3.2

USING A PLANER

Completed		Procedure			
	1.	Review the Planer Safety Rules.			
	2.	Obtain 3 pieces of rough sawn stock. Note that 1 piece is "square", 2 are "flat". 1. $4/4$ (1" nominal) x 4" x 15" 2. $8/4$ (2" nominal) x 2" x 15" 3. $4/4$ x 2 x 15			
	Piec	e A (4/4 x 4 x 15)			
	1.	Joint one face of piece A on the jointer and mark.			
	2.	Measure the MAXIMUM thickness of the flat exercise stock. Set the Planer to remove the 1/16" from the thickness. (Note: The Planer scale indicates the FINISHED THICKNESS of the piece, unlike the jointer scale, which indicates the DEPTH OF THE CUT.)			
	3.	Switch the machine and feed the stock through, flat side down. Continue surfacing the piece, raising the table each time approximately $1/16$ ", until the stock is $1/2$ " thick. One complete turn equals $1/16$ ".			
	4.	1/2" is the minimum thickness allowable on the Oliver planer. To go thinner, switch to another planer, or obtain a Planer backing board from the instructor. Measure the thickness of the backing board and also the thickness of the thin exercise stock.			
	5.	Lower the table and set the bed rolls in the proper position. Place the backing board on the table.			
	6.	Set the machine to remove 1/16" from the thin stock as it is fed through. (Setting would be the combined thickness of the backing board and thin stock, minus 1/16".)			
	7.	Feed the stock through the machine. Continue surfacing the stock until the stock is 3/8" thick. (Hint: turn the stock over with each pass, so that material is removed evenly from each side.)			
		This completes the work on piece A			

Piece B (8/4 x 15)

1. Take the "square" exercise stock to the jointer, and using the procedures you have learned, joint 2 adjacent sides smooth and square with each other, as shown.



- 2. Mark the 2 jointed sides with chalk or soft lead pencil to indicate that they are machined.
- 3. Measure the piece to determine the maximum thickness. Set the Planer 1/16" less than that, and feed the piece through with a smooth marked side down. Feed the piece through on the same setting, but with the other marked side face down.
- 4. Continue surfacing the two adjacent <u>unmarked</u> sides until the piece is $1\frac{1}{2}$ " square. You have now completed the second part of this exercise.

This completes the work on piece B.

Piece C (4/4 x 2 x 15) Using the second flat piece, joint one surface and one edge and 1. mark. Rip stock to 1 5/8". 2. 3. Set the Planer to remove 1/16" from your stock or 1 9/16". Note: If using the Oliver Planer, install the correct size edge guide to keep the material square to the table. 4. Turn on planer and feed stock through. Decrease the thickness by 1/16" and surface other edge. You have now completed the planer exercise. Final width should be 11/2".

5. Plane the face of the piece to 3/4".

Final dimensions of these surfaced pieces should be within \pm 1/64". Use a caliper to check your work as you proceed.

Scoring Guide: $\sqrt{\ }$ = Criteria met O = Criteria not met

Thickness of	Thickness &	Squareness	Thickness &	Minimal		
piece A	Width of	of piece B	Width of	Tearout or	*Dimensional	
(.375")	piece B	(Edges 1 & 2)	piece C	Burning		
	(1.5" x 1.5")	½ point ea.	(.75" x 1.5")	(2 points) –	Accuracy +/- 1/64"	
1 point	½ point ea.		½ point ea.	Typical of all		
		Squareness		pieces	Quality:18-22 KMPI,	
Quality	Quality	of piece B	Quality		minimal snipe, no	
1 point	1 point	(Edges 3 & 4)	1 point		feed roll marks	
		½ point ea.			leed foil marks	

Total: /10 (min score: 8/10)

Comments: