



Woodwork Career Alliance Correlation Chart



The content of the text and Lab Workbook correlates to Woodwork Career Alliance (WCA) skill standards. The WCA establishes a benchmark to measure and recognize an individual's skills and knowledge. The WCA skill standards help ensure that students are prepared for rigorous industry standards, and provide a pathway for advancement for professional woodworkers.

The WCA skill standards define the minimum requirements for specific woodworking machine operations. Using the WCA skill standards in a wood training program can help you, your students, and your program obtain industry recognition. The *Modern Cabinetmaking* textbook and Lab Workbook are correlated to the performance standards, helping prepare your students for certification.

8. Clamping & Laminating

Clamping & Laminating Considerations

- Pre-Operation Checklist is a prerequisite for ANY operation.
- Materials are machined and prepared properly, with dowels and hardware installed.
- Clears machine and cleans work area after operation.
- Required OSHA-approved personal protective equipment is worn.
- Lock-out/tag-out procedure is in place and followed.
- Process is completed in a timely manner.
- If required, select proper program from controller or programmable logic controller (PLC).
- Inspect for evidence of chatter marks or part hesitation.
- Operator clears machine and cleans work area after use.
- Proper stance and hand position are demonstrated.
- Spot check results following the operation.
- Tool/machine manufacturer's safety rules and guidelines are followed.
- Verifies tool is properly guarded.

Case Clamp

Pre-Operation Checklist				
Level	Objective	Performance Standard	Textbook Chapter	Lab Workbook Material
1		Verifies work area is free of clutter.	Chapters 32, 40	
		Ensures fastening supplies and hand tools are positioned for use.	Chapters 32, 40	
		Verifies press faces are clean, flat, and free of blemishes.	Chapters 32, 40	
2		Verifies clamps are adjusted square and true.	Chapters 32, 40	
		Verifies pressure points are adjusted appropriately to produce even pressure during clamping.	Chapters 32, 40	
		Meets Level 1 performance standard.		
Operation—Assemble Cabinet Box				
Level	Objective	Performance Standard	Textbook Chapter	Lab Workbook Material
1	Given materials and machine ready to operate, assemble and clamp a four-sided box with a back.	Joints remain tight and sound when pressure is released from clamps.	Chapters 32, 40	Section Project 5-2
		Box is assembled square within ± 0.8 mm ($1/32$ " [0.0312 "]) when measured corner to corner in any direction.	Chapters 32, 40	Section Project 5-2

		Surfaces of any two opposing parts intended to be flush are flush within ± 0.4 mm ($1/64''$) [0.0156"].	Chapters 32, 40	Section Project 5-2
		Surfaces of any two opposing parts are within ± 0.4 mm ($1/64''$) [0.0156"] of intended position.	Chapters 32, 40	Section Project 5-2
2	Given materials, set up machine to assemble and clamp a foursided box with a back.	Inspects materials to confirm dowels/glue are accurately applied.	Chapters 32, 40	
		Adjusts pressure points to produce even pressure during clamping.	Chapters 32, 40	
		Meets Level 1 performance standard.		

Edgebander

Pre-Operation Checklist				
Level	Objective	Performance Standard	Textbook Chapter	Lab Workbook Material
1		Demonstrates knowledge of and proper use of all machine specific controls.	Chapter 34	
		Verifies core material thickness.	Chapter 34	
		Ensures dust collection is functioning.	Chapter 34	
		Ensures proper air pressure is supplied.	Chapter 34	
		Monitors all supply levels.	Chapter 34	
		Ensures paths of in-feed and out-feed have no obstructions to material and operator.	Chapter 34	

2		Powers up machine and verifies proper operating temperature has been reached.	Chapter 34	
		Selects and installs proper adhesive for given task and material.	Chapter 34	
		Loads magazine for coiled or straight banding material.	Chapter 34	
		Sets beam height to within 0.1 mm [0.0039"] based on panel thickness.	Chapter 34	
		Enables correct stations for given material/ process.	Chapter 34	
		Meets Level 1 performance standard.		
Operation—Edgebanding				
Level	Objective	Performance Standard	Textbook Chapter	Lab Workbook Material
1	Given machine set up, adjusted, with edgebanding and material ready to band, apply the coiled or strip edgebanding to the given material or parts.	Feeds panels properly into machine.	Chapter 34	Section Project 4-12 Section Project 4-13

		Applies edgeband to correct edges in proper sequence (opposing edges first).	Chapter 34	Section Project 4-12 Section Project 4-13
		Identifies basic material and processing defects.	Chapter 34	Section Project 4-12 Section Project 4-13
2	Given material, set up machine and apply edgebanding to specifications.	Loads program and/or adjusts machine for given material.	Chapter 34	
		Sets up and adjusts all processing stations.	Chapter 34	
		Corrects basic processing defects.	Chapter 34	
		Produces parts which exhibit acceptable glue line with minimal glue residue.	Chapter 34	
		Powers down machine in accordance with machine manual.	Chapter 34	
		Meets Level 1 performance standard.		