Correlation of

***Modern Cabinetmaking,* Molzahn, DeWerd, Umstattd**

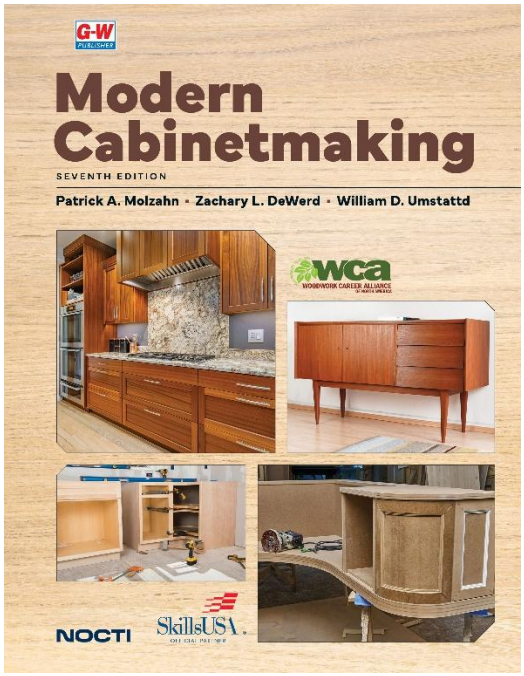
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to

Woodwork Career Alliance: 8. Clamping & Laminating

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.



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.

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Case Clamp

Level	Objective	Performance Standards	Textbook Chapter(s)	Lab Workbook Material
Pre-Operation Checklist				
1	—	**Performance Standard 1.** Verifies work area is free of clutter.	Chapters 32 and 40	—
1	—	**Performance Standard 2.** Ensures fastening supplies and hand tools are positioned for use.	Chapters 32 and 40	—
1	—	**Performance Standard 3.** Verifies press faces are clean, flat, and free of blemishes.	Chapters 32 and 40	—
2	—	**Performance Standard 1.** Verifies clamps are adjusted square and true.	Chapters 32 and 40	—
2	—	**Performance Standard 2.** Verifies pressure points are adjusted appropriately to produce even pressure during clamping.	Chapters 32 and 40	—
2	—	Meets Level 1 performance standard.	—	—
Operation—Assemble Cabinet Box				
1	Given materials and machine ready to operate, assemble and clamp a four-sided box with a back.	**Performance Standard 1.** Joints remain tight and sound when pressure is released from clamps.	Chapters 32, 40	Section Project 5-2
1	Given materials and machine ready to operate, assemble and clamp a four-sided box with a back.	**Performance Standard 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
1	Given materials and machine ready to operate, assemble and clamp a four-sided box with a back.	**Performance Standard 3.** 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
1	Given materials and machine ready to operate, assemble and clamp a four-sided box with a back.	**Performance Standard 4.** 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

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Level	Objective	Performance Standards	Textbook Chapter(s)	Lab Workbook Material
2	Given materials, set up machine to assemble and clamp a four-sided box with a back.	**Performance Standard 1.** Inspects materials to confirm dowels/glue are accurately applied.	Chapters 32, 40	—
2	Given materials, set up machine to assemble and clamp a four-sided box with a back.	**Performance Standard 2.** Adjusts pressure points to produce even pressure during clamping.	Chapters 32, 40	—
2	Given materials, set up machine to assemble and clamp a four-sided box with a back.	Meets Level 1 performance standard.	—	—

Edgebander

Level	Objective	Performance Standards	Textbook Chapter(s)	Lab Workbook Material
Pre-Operation Checklist				
1	—	**Performance Standard 1.** Demonstrates knowledge of and proper use of all machine specific controls.	Chapter 34	—
1	—	**Performance Standard 2.** Verifies core material thickness.	Chapter 34	—
1	—	**Performance Standard 3.** Ensures dust collection is functioning.	Chapter 34	—
1	—	**Performance Standard 4.** Ensures proper air pressure is supplied.	Chapter 34	—
1	—	**Performance Standard 5.** Monitors all supply levels.	Chapter 34	—
1	—	**Performance Standard 6.** Ensures paths of in-feed and out-feed have no obstructions to material and operator.	Chapter 34	—
2	—	**Performance Standard 1.** Powers up machine and verifies proper operating temperature has been reached.	Chapter 34	—
2	—	**Performance Standard 2.** Selects and installs proper adhesive for given task and material.	Chapter 34	—

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Level	Objective	Performance Standards	Textbook Chapter(s)	Lab Workbook Material
2		**Performance Standard 3.** Loads magazine for coiled or straight banding material.	Chapter 34	—
2		**Performance Standard 4.** Sets beam height to within 0.1 mm [0.0039"] based on panel thickness.	Chapter 34	—
2		**Performance Standard 5.** Enables correct stations for given material/ process.	Chapter 34	—
2	—	Meets Level 1 performance standard.	—	—
Operation—Edgebanding				
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.	**Performance Standard 1.** Feeds panels properly into machine.	Chapter 34	Section Projects 4-11 and 4-12
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.	**Performance Standard 2.** Applies edgeband to correct edges in proper sequence (opposing edges first).	Chapter 34	Section Projects 4-11 and 4-12
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.	**Performance Standard 3.** Identifies basic material and processing defects.	Chapter 34	Section Projects 4-11 and 4-12
2	Given material, set up machine and apply edgebanding to specifications.	**Performance Standard 1.** Loads program and/or adjusts machine for given material.	Chapter 34	—
2	Given material, set up machine and apply edgebanding to specifications.	**Performance Standard 2.** Sets up and adjusts all processing stations.	Chapter 34	—

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Level	Objective	Performance Standards	Textbook Chapter(s)	Lab Workbook Material
2	Given material, set up machine and apply edgebanding to specifications.	**Performance Standard 3.** Corrects basic processing defects.	Chapter 34	—
2	Given material, set up machine and apply edgebanding to specifications.	**Performance Standard 4.** Produces parts which exhibit acceptable glue line with minimal glue residue.	Chapter 34	—
2	Given material, set up machine and apply edgebanding to specifications.	**Performance Standard 5.** Powers down machine in accordance with machine manual.	Chapter 34	—
2	Given material, set up machine and apply edgebanding to specifications.	Meets Level 1 performance standard.	—	—

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