

Cabinetmaking (48.0703)

Cross-reference to Show-Me standards (main report)

Measurable Learner Objective and Task Statement	Knowledge (Content)	Performance (Goals)	Notes
A. Appreciate and apply all personal and workplace safety procedures	CA 3, HP 6,7, SC 8	1.4, 3.1, 3.5, 4.7	
1. Demonstrate appropriate lab safety practices (e.g., set up, lifting, electrical, lockout/tagout, housekeeping, PPE, power tools, hazardous material use and disposal).			
2. Recognize when first aid is needed for occupational injuries and follow proper procedures.			
3. Identify types, purposes, and the operation of fire extinguishers and suppression resources.			
4. Communicate safe lab practices.			
5. Maintain safe work attire and appearance (e.g., no loose clothing, hair tied back, and no jewelry).			
6. Identify the purpose of material safety data sheets (MSDS).			
7. Comprehend safe practices (e.g., written exams).			
8. Identify the roles of government regulatory agencies and regulations [e.g., Environmental Protection Agency (EPA), Department of Natural Resources (DNR), and Occupational Safety and Health Administration (OSHA) in cabinetmaking.			
B. Describe and safely interact with all basic cabinetmaking systems (e.g., equipment, tools, and applied academic skills)	CA 1, MA 1, MA 2	3.2, 3.5, 3.8	
1. Read and interpret a rule/tape measure (e.g., standard and metric).			
2. Perform basic computer skills.			
3. Perform basic math skills.			
4. Follow written and oral instructions.			
5. Identify and use measuring and layout tools.			
6. Calculate linear, square, and board feet.			
7. Demonstrate material cost awareness.			
8. Identify and properly use hand tools.			

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9. Identify wood species and grades.			
C. Identify and demonstrate pre-employment skills	CA1, CA 4	1.8, 2.1, 2.6, 4.8	
1. Explain industry requirements regarding substance abuse and testing.			
2. Prepare documentation for employment (e.g., resume, and cover letter).			
D. Use power tools and equipment consistent with industry and safety standards	CA 1, MA 1, MA 2	1.10, 2.1, 3.2, 4.7	
1. Demonstrate proper use of pneumatic tools.			
2. Demonstrate proper use of portable electric tools.			
3. Operate saws accurately (e.g., table, miter, radial arm, and band).			
4. Operate drill press accurately.			
5. Operate jointer accurately.			
6. Operate a bench grinder accurately.			
7. Operate a sliding compound accurately.			
8. Operate a planer accurately.			
9. Operate sanding machines accurately (e.g., wide belt, and edge).			
10. Operate shapers and pocket cutters accurately.			
E. Use computerized equipment (CNC equipment and CAD software)	CA 1, MA 1, MA 2	1.8, 2.1, 3.2, 4.7	
1. Demonstrate basic knowledge of CNC operations.			
2. Operate CNC equipment.			
3. Prepare cabinetmaking plans using CAD.			

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F. Setup cabinetmaking equipment consistent with industry and safety standards	CA 3, MA 2	4.1, 4.7	
1. Set up saws accurately (e.g., table, miter, radial arm, and band).			
2. Set up drill presses, jointers, and planers accurately.			
3. Set up sanding machines accurately (e.g., wide belt and edge).			
4. Set up shapers and pocket cutters accurately.			
G. Construct cabinetmaking joinery consistent with industry and safety standards	CA 3, MA 1, MA 2	1.10, 2.5, 3.2, 4.7	
1. Select and use fasteners when constructing joints (e.g. finish nails, and screws).			
2. Identify types of joints used in cabinetmaking.			
3. Lay out, cut, and construct joints (e.g., lap, pocket screw, spline, butt, dado, rabbet, miter, and biscuit).			
4. Install dowels in common wood joints.			
H. Construct 32mm cabinet systems consistent with industry and safety standards.	CA 1, MA 1, MA 2	1.4, 2.5, 3.2, 4.7	
1. Describe the purpose of the 32mm system.			
2. Select and use fasteners and hardware specific to the 32mm system.			
3. Identify and use 32mm system tools and equipment.			
4. Use edge bander properly.			
5. Construct cabinets using the 32mm system.			
I. Glue and clamp cabinetmaking projects	CA 3	1.10, 3.2, 4.7	
1. Identify various types of glues, their precautions and uses.			

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2. Use clamps (e.g., bar, hand-screw, C, webbing, and spring) during gluing operations.			
3. Perform safe and proper gluing procedures.			
J. Design cabinetmaking projects	MA 1, MA 2, CA 1, CA 3	1.4, 3.2, 3.3, 3.8, 4.7	
1. Identify cabinet styles and materials.			
2. Read and interpret cabinetmaking plans.			
3. Read and interpret a floor plan.			
4. Layout cabinet from floor plan.			
5. Verify design with field measurement for construction drawing.			
6. Identify component parts of a cabinet.			
7. Prepare cut sheet.			
8. Identify cabinet hardware.			
9. Calculate materials costs.			
K. Cut, machine, and assemble cabinetry components consistent with industry and safety standards	CA 3, MA 1, MA 2	1.10, 2.5, 3.2, 3.3, 4.7	
1. Interpret cut sheet.			
2. Cut component parts of a cabinet (e.g. face frame, doors, and drawers).			
3. Machine component parts of a cabinet (e.g., face frame, doors, and drawers).			
4. Assemble component parts of a cabinet (e.g., face frame, doors, and drawers).			
5. Install cabinet hardware.			
L. Finish cabinetry consistent with industry and safety standards	CA 3	1.10, 3.2, 3.3, 4.7	

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1. Identify types and grades of abrasive materials.			
2. Prepare surface for finishing (e.g., sanding).			
3. Identify stains and application procedures.			
4. Identify finishes, their uses, and precautions.			
5. Apply finishes.			
M. Apply laminates/veneers consistent with industry and safety standards	CA 3, MA 1, MA 2	1.10, 3.2, 3.3, 4.7	
1. Identify plastic laminates and their uses.			
2. Identify adhesives, their uses, and precautions.			
3. Apply laminate adhesives.			
4. Handle laminate sheets properly.			
5. Identify and use proper tooling of laminate.			
6. Identify types of veneer and their uses.			
7. Adhere veneer properly.			
N. Construct countertops consistent with industry and safety standards	CA 3, MA 1, MA 2	1.10, 2.5, 3.2, 3.3, 4.7	
1. Identify types of countertop designs and materials.			
2. Lay out countertops.			
3. Cut countertops.			
4. Construct plastic laminate tops.			
O. Install cabinetry consistent with industry and safety standards	CA 1, CA 3, MA 1, MA 2	1.10, 2.5, 4.7	

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1. Demonstrate jobsite professionalism.			
2. Use various fasteners and leveling devices to install cabinets.			
3. Install countertops.			
4. Install molding and trim.			
P. Demonstrate leadership skills in the classroom, industry, and society	CA 1, CA 4, CA 6, SS 6, HP 2	2.1, 2.3, 2.6, 4.3, 4.4, 4.6, 4.8	
1. Determine an understanding of SkillsUSA, its structure, and activities.			
2. Demonstrate an understanding of one's personal values.			
3. Perform tasks related to effective personal management skills.			
4. Demonstrate good interpersonal skills.			
5. Demonstrate etiquette and courtesy.			
6. Demonstrate effectiveness in oral and written communication.			
7. Develop and maintain a code of professional ethics.			
8. Maintain an appropriate professional appearance.			
9. Perform basic tasks related to securing and terminating employment.			
10. Perform basic parliamentary procedures in a group meeting.			
Q. Explain and demonstrate skills in a specialization area identified by the instructor			

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