

CURRICULUM MAP
Cluster: Manufacturing
CTE Program of Study: MA2120 Millwork and Cabinetmaking

STANDARD	%	SKILL SET/COMPETENCY	REQUIRED CORE COURSES FOR COMPLETION			
			1 st Course 2126 Millwork and Cabinetmaking I	2 nd Course 2127 Millwork and Cabinetmaking II	3 rd Course 2128 Millwork and Cabinetmaking III	4 th Course 2129 Millwork and Cabinetmaking IV
Safety	10%	Apply shop and personal safety rules and procedures, including appropriate personal protective equipment (PPE)	X			
		Identify minor first aid treatment procedures	X			
		Apply fire and electrical safety rules and procedures	X			
		Identify MSDS related issues and information	X			
Design and Layout	13%	Interpret blueprints and specifications	X		X	
		Prepare and interpret shop drawings/rough sketches	X		X	
		Prepare or interpret detailed drawings	X		X	
		Prepare a cut list or bill of material	X		X	
		Identify and meet industry standards	X			
		Identify types of joints and their uses		X		
Estimating and Measuring	7%	Read scales and measurements	X		X	
		Calculate quantities			X	
		Estimate labor and material costs			X	
Hand and Portable Power Tools	15%	Identify or demonstrate proper use and function of portable power cutting tools	X			
		Identify or demonstrate proper use and function of fastening tools	X			
		Identify or demonstrate proper use and function of portable sanders	X			
		Identify or demonstrate proper use and function of portable routers	X			
		Identify or demonstrate proper use and function of hand tools	X			

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		Identify or demonstrate proper use and function of portable drills and drivers	X			
Stationary Saws	7%	Identify or demonstrate proper use of stationary saws	X			
		Remove and replace stationary saw blades	X			
Boring Machines	4%	Identify or demonstrate proper use of boring machines	X			
		Select and use appropriate boring machine bits	X			
Milling	9%	Identify or demonstrate proper use of planers and jointers	X			
		Identify or demonstrate proper use of shapers and stationary routers	X			
		Identify or demonstrate proper use of wood lathes	X			
		Identify or demonstrate proper use of stationary sanders	X			
		Prepare rough stock		X		
Assembly	22%	Identify and demonstrate methods of case construction		X		
		Identify and assemble joints		X		
		Identify and demonstrate methods of face frame construction			X	
		Identify and assemble various styles of door construction			X	
		Identify and assemble various types of drawer construction			X	
		Apply laminates, veneers, and countertops		X		
		Select and install hardware and accessories		X		
		Identify and use various fasteners		X		

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Finishing	7%	Identify and apply various finishing materials		X		
		Safely use and store finishing materials		X		
		Safely use finishing tools and equipment		X		
Installation	6%	Install a base cabinet			X	X
		Install a wall cabinet			X	X
		Identify industry standards for installation			X	X
Apprenticeship Awareness		Apprenticeship Basics	X			
What is Apprenticeship?		Benefits of Apprenticeships	X			
		Apprenticeship Components and Models	X			
		Businesses and Partners	X			
		Common Apprenticeship Myths	X			
		Apprenticeships Used for Exploitation	X			
History of Apprenticeship		Examples of Early Apprenticeships		X		
		Apprenticeship Expansion in the Industrial Revolution		X		
		Modern Apprenticeship Programs		X		
Apprenticeship Programs Today		Support of Apprenticeship Programs Today		X		
		Simulated Workplace Manual	X			
Unions and Apprenticeship Programs		Unions Working with Contractors in Construction Trades			X	
		Construction Trades Unions in West Virginia with Apprenticeship Programs			X	
		Apprenticeship Opportunities in Construction Trades			X	
		Applying for Apprenticeship in the Construction Trades			X	
		Pre-Job Training			X	
		Working on the Jobsite			X	
		Working with your Supervisor and Others				X

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		Harassment and Discrimination				X
Are You Apprenticeship Ready?		Qualities of a Successful Apprentice				X
		Interviewing for Apprenticeships in Construction				X
		Interviewing Tips for Construction Apprenticeships				X
		Common Interview Questions				X