UTAH CTE SKILL CERTIFICATE PROGRAM

FURNITURE DESIGN & MANUFACTURING STUDENT PERFORMANCE EVALUATION

TEST #522

Student Name:	48	0702-03 Students will be ab	ole to understand and demonstrat	te safe practices.	1	2	3
		Demonstrate the ability to v	work safely in a cabinet shop follow	ving general safety rules.			
	H	Demonstrate safe use of wo	oodworking tools and machines.				
The performance evaluation is a required component of the Skill Certification process. Each student must be evaluated on the required performance standards. Performance standards may be completed and evaluated anytime during the course.		Demonstrate how to handle	and store materials according to the	e Material Safety Data Shee	ets (M	ISDS).
Students should be aware of their progress throughout the course, so that they can concentrate on the objectives		Pass a written safety test wi	ith a score of 100 percent.				
that need improvement.							
 Students should be encouraged to repeat the objectives until they have performed at a minimum of a number 1 or 2 on the rating scale (moderately to highly competent level). 		30702-04 Students will be at ols.	ble to understand and demonstrat	te the safe use of hand	1	2	3
1= highly competent Successfully demonstrated without supervision			demonstrate the proper use of the fo	ollowing measuring and layo	out to	ols:	
2= moderately competent Successfully demonstrated with limited supervision 3= limited competence Demonstrated with close supervision 4= not competent Demonstration requires direct instruction and supervision		Measuring tape Try square	Scratch awl Framing square	Combination square Sliding T-bevel			
The performance evaluation is a required component of the Skill Certification process. Each student must be evaluated on the required performance standards. Performance standards may be completed and evaluated anytime during the ourse. • Students should be aware of their progress throughout the course, so that they can concentrate on the objectives that need improvement. • Students should be encouraged to repeat the objectives until they have performed at a minimum of a number 1 or 2 on the rating scale (moderately to highly competent level). 1 = highly competent 2 = moderately competent Successfully demonstrated without supervision 3 = limited competence Demonstrated with close supervision		Tammel points Describe the purpose and d Utility knife	Compass demonstrate the proper use of the fo Back saw	ollowing cutting and shaping Block plane	; tools	s:	
		Wood chisel	Wood file/rasp	Hand saw			
		Jack plane	Glue scraper	Putty knife			
			demonstrate the proper use of the fo				
		Claw hammer	Dead-blow hammer	Rubber mallet			
teet will be solded all 012 offin del tilleater	\vdash	Nail set	1	.11			
		Twist	lemonstrate the proper use of the for Forstner	Spade			
		Countersink	Hole saw	Multi spur bit			
		Hogging tool	Driver bits: Phillips, Square				
480702-02 Students will be able to understand the design planning and estimation		66 6	¥ · · ¥				
1 1 1 2 1 3 1 4 1	_						
			ble to understand and demonstrat	te the safe use of portable	1	2	3
	po	ower tools.			—		
Identify standard furniture dimensions relating to tables, seating, bookshelves, and shelving		Describe the purpose and de Pneumatic nailer	emonstrate the proper use of the follower drills	llowing portable power tools Router	s:		
		Finish sander	Belt sander	Orbital sander			
Draw the necessary views of a selected project.		Biscuit jointer	Hand jig saw	Orbital stander			
Create a material list for the selected project and determine the project cost.							
Create a procedure list for construction of a cabinet.	48	30702-06 Students will be ab	ble to understand and demonstrat	te the safe use of power	T ₁	2	2
Extract pertinent cabinet information and specifications from working drawings and specifications.	m	achines.				2	3
		Describe the purpose and d Table saw	lemonstrate the proper use of the for Power Miter Saw	llowing sawing machines: Radial arm saw			
The instructor must retain a conv of this Student Performance		Band saw	Tower which saw	Radiai aiiii saw			
- ·			lemonstrate the proper use of the fo	llowing surfacing machines:	:		
Evaluation for two years after the student has left the program.		Surface planer	Jointer				
Instructor Signature: Date:		Disc sander	lemonstrate the proper use of the fo Surface sander	Spindle sander			
Student Signature: Date :		Router table	lemonstrate the proper use of the fo Shaper				
School:		Describe the purpose and d Drill press	lemonstrate the proper use of the fo Line boring machine	llowing drilling and turning Lathe	; mac	nines	:

	ised 29 October, 2012				_				
	80702-07 Students will be able to understand the wood components and	1 2	2 3	4	, l	480	80702-10 Students will be able to understand and demonstrate the use of joinery.	2	3
c	naracteristics.				<u> </u>		Identify the basic wood joints used in furniture making.		
	Describe the parts of a tree and the significance that it has in cabinet construction. Bark Sap wood Pith Annual (growth) rings Describe and know how natural defects. Warp Cracks Bark inclusions Knots						Butt Miter Rabbet Dado Spline Mortise and tenon Dovetail Groove (plough) Lap Pocket Dowel Biscuit Blind dado		
	Demonstrate a knowledge of the seasoning and drying of lumber.						Construct the basic wood joints used in cabinetmaking/millwork.		
	Distinguish between softwoods and hardwoods.					480	80702-11 Students will be able to understand and demonstrate the use of cabinet		3
	Identify the difference between solid wood and manmade goods and describe the use of ea	ch.					omponents and nardware.		3
	Identify wood species and list the species most suited for furniture construction. Alder Cherry Oak Walnut Maple Poplar Pine Mahogany Cedar Identify the common grades of lumber and sheet goods. FAS Select #1COM				_		Identify the cabinet components of a face frame and cabinet box. Stile Rail Mullion Side Skin Base Shelf Web frame Kicker Drawer runner/glide Toe kick Back Describe the concept of a European (frameless) cabinet system and the advantages and disadvant that system.	ıtage	es of
	Properly store material.						Identify the door options in cabinetmaking:		
							Flush Overlay Lip Tambour		
		Ι.Ι.	_ _		. .		Identify the components of a drawer.		
4	80702-08 Students will be able to understand the basic math and measuring concepts	1 2	2 3	4	<u>'</u>		Identify and properly install common cabinet/furniture hardware such as:		
	Add two- and three-digit numbers.						Shelf supports Drawer guides Pulls and knobs		
	Subtract two-, three-, and four-digit numbers.						Hinges - offset, overlay, European, butt, lip Assemble a project with the proper adhesive and fasteners.		
	Solve two-digit divisor numbers.				_				
	Multiply a two-digit factor.						Use frame and panel construction in a project. Construct a drawer.		
	Add, subtract, multiply, and divide fractions and mixed numbers.					-	Install lid or door and drawer.		
	Convert fractions to decimals.						Identify basic construction methods.		
	Reduce fractions.						Frame and panel Casework construction Post and rail		
	Add, subtract, multiply, and divide decimal numbers.					480	80702-12 Students will be able to understand and demonstrate finishing techniques.	2	3
	Calculate percentages and basic ratios.						Understand and properly apply the basic rules of sanding.		
	Add and subtract linear measurement in feet and inches.						Select and correctly use each specified grit size.		
	Use a ruler or measuring tape to measure within a sixteenth (1/16) of an inch.						Properly prepare a surface for finishing.		
	Calculate board feet and square feet.						Properly apply stain, penetrating oil, and/or a clear finish		
	Demonstrate the optimization of materials.						Properly spray a clear coat.		
					L				
4	80702-09 Students will be able to understand and demonstrate the use of fasteners and			_	.7 _				
	lhesives.	1 2	2 3	4	<u> </u>		80702-20 Students will be able to understand the importance of employability and ork habits.	2	3
	Identify the various woodworking fasteners and the application of each. Nails Screws Staples					3.	Integrity (honesty, dependability).		_
	Pins Bolts Identify the different adhesives and preferred use of each.						Punctuality and attendance.		
	Yellow glue Polyurethane glue Cyanoacrylate						Staying on task (using time effectively).		
	Epoxy Identify the different types of clamps.						Productive team worker (works well with others).		
	Bar "C" Spring Band Handscrew.						Leadership.		