



2024-2025

Technical Skills Assessment

Cabinetmaking and Bench Carpentry

Results by Standard

Legend (%)		
0-50%	51-75%	76-100%

Assessment: Cabinetmaking and Bench Carpentry	% Correct 21-22	% Correct 22-23	% Correct 23-24	% Correct 24-25
Number tested: 62				
CONTENT STANDARD 1.0: LAB ORGANIZATION AND SAFETY SKILLS	77.09%	81.87%	85.97%	81.50%
Performance Standard 1.1: General Safety	77.09%	81.87%	85.97%	81.50%
1.1.1. Describe general shop safety rules, procedures and housekeeping duties.	76.32%	71.43%	76.92%	73.39%
1.1.2. Demonstrate knowledge of OSHA/EPA and their role in workplace safety.	80.70%	85.71%	94.87%	80.65%
1.1.3. Comply with the required use of safety glasses, ear protection, gloves, and shoes during lab/shop activities (i.e., personal protection equipment - PPE).	80.70%	93.88%	94.87%	90.32%
1.1.4. Utilize safe procedures for handling of tools and equipment.	47.37%	47.96%	48.72%	54.03%
1.1.5. Operate lab equipment according to safety guidelines.	67.54%	76.53%	83.33%	81.45%
1.1.7. Utilize proper ventilation procedures for working within the lab/shop area.	81.58%	91.84%	96.15%	88.71%
1.1.12. Secure hair and jewelry for lab/shop activities.	90.35%	89.80%	96.15%	91.94%
1.1.14. Follow verbal instructions to complete work assignments.	88.60%	94.90%	93.59%	87.90%
1.1.15. Follow written instructions to complete work assignments.	82.46%	86.73%	93.59%	84.68%
CONTENT STANDARD 2.0: MANUAL AND POWER TOOLS	68.16%	69.59%	72.18%	68.39%
Performance Standard 2.1: Hand Tools	69.52%	72.45%	75.96%	67.94%
2.1.1 Identify hand tools and their appropriate usage.	60.23%	59.18%	61.54%	52.15%
2.1.2 Demonstrate the proper techniques when using hand tools.	69.01%	76.19%	77.78%	75.27%
2.1.3 Demonstrate safe handling and use of appropriate tools.	84.21%	86.73%	94.87%	80.65%
Performance Standard 2.2: Power Tools and Equipment	67.25%	67.69%	69.66%	68.68%
2.2.1. Identify power tools and their appropriate usage.	74.27%	72.11%	82.05%	73.66%
2.2.2. Identify equipment and their appropriate usage.	66.08%	70.75%	72.65%	72.58%
2.2.3. Demonstrate the proper techniques when using power tools and equipment.	64.33%	61.22%	58.97%	62.90%
2.2.4. Demonstrate safe handling and use of appropriate power tools and equipment.	64.33%	66.67%	64.96%	65.59%
CONTENT STANDARD 3.0: FUNDAMENTAL DESIGN	70.64%	76.48%	71.39%	70.71%
Performance Standard 3.2: Print Reading Techniques	61.84%	73.98%	55.77%	60.89%

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3.2.1. Interpret basic elements of a working drawing (e.g., annotation, dimensions, line types, etc.).	61.84%	73.98%	55.77%	60.89%
Performance Standard 3.3: Measures and Scaling Techniques	77.89%	82.04%	85.64%	81.29%
3.3.1. Identify industry standard units of measure (e.g., standard, decimal, metric, etc.).	82.46%	87.76%	94.87%	88.71%
3.3.2 Define industry standard measurement terms (e.g., linear, square ft., tolerance, squareness, concentricity, perpendicular, parallel, etc.).	64.91%	66.33%	70.51%	67.74%
3.3.4. Measure to the nearest 1/16th inch with a tape measure.	88.60%	94.90%	96.15%	91.13%
Performance Standard 3.4: Freehand Technical Sketching Techniques	62.11%	70.20%	63.59%	61.61%
3.4.1. Identify industry standard units of measure (e.g., standard, decimal, metric, etc.).	71.05%	77.55%	67.95%	75.00%
3.4.3. Demonstrate proper use of precision measuring tools (e.g., micrometer, dial indicator, caliper, etc.).	56.14%	65.31%	60.68%	52.69%
Performance Standard 3.6: Mathematical Concepts	82.02%	85.71%	82.69%	84.27%
3.6.3. Add, subtract, multiply and divide fractions, decimals, and whole numbers.	81.29%	83.67%	80.34%	81.72%
3.6.5. Determine the cost of materials needed for a furniture/cabinetmaking project.	84.21%	91.84%	89.74%	91.94%
Performance Standard 3.7: Layout Principles and Practices	66.67%	53.06%	56.41%	48.39%
3.7.5. Layout parts using measurement practices.	66.67%	53.06%	56.41%	48.39%
CONTENT STANDARD 5.0: MANUFACTURING PROCESSES	55.14%	59.62%	59.04%	56.80%
Performance Standard 5.2: Milling Operations	50.29%	52.83%	53.28%	52.51%
5.2.2. Select the proper milling tools for specific operations (e.g., table saw, drill press, joiner, lathe, band saw, jigsaw, routers, etc.)	69.30%	67.35%	75.64%	62.90%
5.2.3. Demonstrate the steps to square a board.	39.77%	43.54%	46.15%	42.47%
5.2.4. Demonstrate cutting and handling techniques used for lumber and sheet goods.	49.12%	46.94%	50.00%	52.42%
5.2.6. Demonstrate safety operating procedures, (e.g. feather boards, holders, and power feeders).	48.25%	58.16%	44.87%	57.26%
Performance Standard 5.4: Joinery Techniques	44.44%	49.66%	41.03%	53.76%
5.4.2. Determine the appropriate joinery applications.	40.35%	44.90%	38.46%	38.71%
5.4.5. Construct various joints (i.e., dado, miter, rabbet, butt).	46.49%	52.04%	42.31%	61.29%
Performance Standard 5.5: Sanding	67.32%	75.00%	74.36%	69.35%
5.5.1. Identify terms used with sanding processes and techniques (e.g., grit, belt, disc, hand, etc.)	71.93%	79.59%	87.18%	75.81%
5.5.2. Properly prepare a surface for a treatment or finish.	71.93%	75.51%	78.21%	70.97%

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5.5.4. Select the proper tool and abrasive for shaping and smoothing materials.	44.74%	61.22%	47.44%	45.16%
5.5.5. Select the proper grit sizes and sequences for shaping and smoothing operations.	80.70%	83.67%	84.62%	85.48%
Performance Standard 5.6: Assembly	49.67%	53.95%	56.09%	51.41%
5.6.1. Identify terms used with assembly procedures (e.g., dry fitting, clamping, gluing, etc.)	45.03%	50.34%	52.99%	48.39%
5.6.2. Select the proper assembly tools for specific operations (e.g., c clamps, bar clamps, pipe clamps, etc.)	50.88%	59.86%	62.39%	56.99%
5.6.3. Demonstrate assembly and clamping procedures.	59.65%	63.27%	70.51%	65.32%
5.6.4. Demonstrate common case construction techniques (e.g., face frame, frameless, etc.)	47.95%	55.78%	59.83%	50.00%
5.6.7. Construct a project that includes a drawer and a door.	47.37%	48.98%	33.33%	47.58%
5.6.8. Use specific quality control criteria to check the accuracy and squareness of a project.	49.71%	46.94%	54.70%	43.55%
Performance Standard 5.7: Finishing	63.16%	58.16%	66.67%	56.45%
5.7.5. Utilize the proper health and safety procedures when working with finishes.	63.16%	58.16%	66.67%	56.45%
Performance Standard 5.8: Installation	67.54%	75.00%	62.82%	65.32%
5.8.8. Adjust doors and drawers.	53.51%	58.16%	33.33%	43.55%
5.8.9. Clean work site.	81.58%	91.84%	92.31%	87.10%
CONTENT STANDARD 6.0: CABINETRY AND MILLWORK INDUSTRY	78.07%	74.49%	83.33%	76.61%
Performance Standard 6.1: Career Exploration	78.07%	74.49%	83.33%	76.61%
6.1.3. Create an employment application and resume.	78.07%	74.49%	83.33%	76.61%