

WYOMING CUSTOMIZED ASSESSMENT BLUEPRINT

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WYOMING
DEPARTMENT OF EDUCATION



Cabinetmaking and **Woodworking**

Test Code: 8707

Version: 01



Preliminary Blueprint - final version is subject to slight changes.

Specific competencies and skills tested in this assessment:

Safety

Understand the use and purpose of personal protective equipment (PPE) and safety concepts related to clothing and hair

Apply safety concepts related to the safe use of hand tools and power/pneumatic tools

Demonstrate knowledge of proper set-up, maintenance, and inspection procedures for tools

Demonstrate familiarity with emergency situations and procedures

Follow safety procedures when handling materials (e.g., proper lifting and carrying, material stacking)

Demonstrate knowledge of Safety Data Sheets (SDS)

Handheld and Power Tools

Demonstrate set-up and inspection of stationary power tools for woodworking

Explain use of stationary power tools for woodworking

Demonstrate set-up and inspection of handheld woodworking tools

Demonstrate proper use of handheld woodworking tools

Demonstrate set-up and inspection of handheld power tools for woodworking

Understand the purposes and proper use of handheld power tools

Fasteners and Adhesives

Describe common types of adhesives and fasteners used in woodworking and explain their uses

Choose appropriate fastener for the task

Demonstrate knowledge of clamping techniques (e.g., types of clamps)

Select and install hardware (e.g., drawer slides)

Cabinetmaking and Woodworking (continued)

Planning, Design, and Estimation

Identify wood types (e.g., hardwoods, softwoods, manufactured)

Identify appropriate use of woods for specific purpose (e.g., use of hardwood/softwood)

Use tape measure to create an accurate measurement within tolerance (e.g., using sixteenths)

Use basic math skills

Read and use a blueprint to plan and create a project (e.g., use a material list and procedure list)

Cutting and Shaping

Choose and set up tools for specific operations

Demonstrate truing and squaring a board

Demonstrate basic joinery (e.g., dados, rabbets, miters)

Finishing and Sanding

Demonstrate finishing techniques

Demonstrate appropriate sanding technique and select appropriate tools for the task (e.g., grit)

Demonstrate safe handling, application, and clean-up of lacquers, paints, stains, and wood fillers, etc.

Career Readiness

Demonstrate awareness of woodworking and cabinetmaking careers (e.g., CNC operator)

Demonstrate leadership and communication skills

Exhibit workplace readiness skills

Cabinetmaking and Woodworking (continued)

Written Assessment:

Administration Time: 3 hours

Number of Questions: 136

Areas covered:

19%	Safety
20%	Handheld and Power Tools
9%	Fasteners and Adhesives
21%	Planning, Design, and Estimation
14%	Cutting and Shaping
10%	Finishing and Sanding
7%	Career Readiness

Sample Questions:

When operating a table saw, use the fence for

- A. rip cuts
- B. crosscuts
- C. miter cuts
- D. dovetail joints

Drawer fronts are generally installed by

- A. using biscuits
- B. face nailing
- C. screwing from the inside
- D. using dowels

A cost effective alternative to using oak hardwood is

- A. oak veneers
- B. OSB
- C. plywood
- D. melamine

Compound miter joints are commonly used on

- A. crown molding
- B. cabinet face frames
- C. door facings
- D. drawer boxes

Compared to water-based stains, oil stains preserve wood and bring out its beauty without

- A. raising the grain
- B. discoloring the stock
- C. splitting the grain
- D. sealing the stock