



Entry Level Assessment Blueprint

Carpentry



Test Code: 4317 / Version: 01

Specific Competencies and Skills Tested in this Assessment:**Safety**

- Display comprehension of workplace/job-site safety procedures (OSHA)
- Demonstrate knowledge of safe material handling practices
- Demonstrate knowledge of safe power tool usage
- Demonstrate understanding of proper usage of PPE

Tools and Accessories

- Demonstrate knowledge of hardware and fasteners
- Display comprehension of safe hand and power tool usage
- Display understanding of measuring tools

Blueprint Reading and Material Estimation Skills

- Demonstrate scale interpretation and application
- Demonstrate knowledge of various types of blueprints
- Calculate material quantities
- Demonstrate understanding of building codes and their application

Foundations, Forms, and Concrete

- Demonstrate understanding of concrete characteristics
- Demonstrate knowledge of concrete safety
- Demonstrate understanding of lay out foundation and site work skills

Rough Framing

- Identify floor systems
- Identify wall systems
- Identify roof systems
- Demonstrate understanding of lumber
- Identify types of door and window openings
- Identify and utilize rough framing hardware
- Demonstrate knowledge of stairs
- Apply the order of operations



Specific Competencies and Skills continued:**Exterior Finish**

- Identify types of windows
- Identify characteristics of exterior finish hardware
- Identify roofing components
- Identify characteristics of exterior doors
- Identify types of siding

Interior Finish

- Demonstrate understanding of installing and finishing interior walls and ceilings
- Display understanding of installing interior doors
- Display knowledge of installing standing and running trim
- Demonstrate understanding of installing cabinets and associated hardware
- Display understanding of installing flooring (e.g., hardwood, laminate, tile)
- Identify characteristics of stair trim and handrails

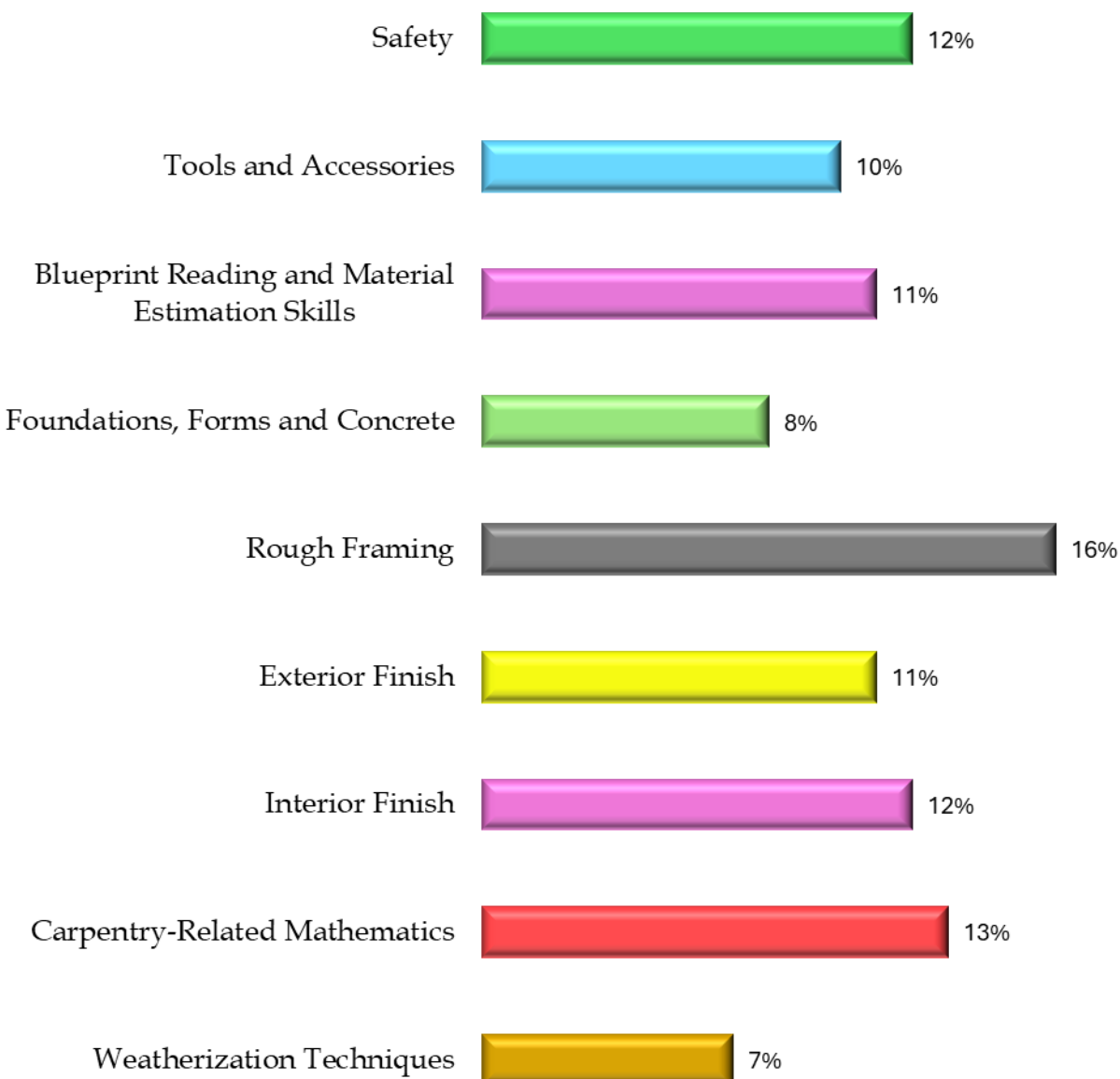
Carpentry-Related Mathematics

- Perform basic geometry calculations
- Calculate area, volume, linear feet
- Convert decimals to fractions

Weatherization Techniques

- Demonstrate knowledge of exterior weather barriers
- Demonstrate knowledge of air sealing and proper insulation
- Demonstrate understanding of water management



Written Assessment:**Administration Time:** 2 hours and 30 minutes**Number of Questions:** 148**Areas Covered:**

Sample Questions:

Ground Fault Circuit Interrupters (GFCIs) must be used on a job site for all receptacles that are part of a temporary wiring system, such as

- A. extension cords
- B. recess lights
- C. outlets
- D. receptacles

What type of nails are commonly used in formwork because they allow for easy removal?

- A. spiral shank
- B. masonry
- C. duplex
- D. sinker

Which part of a blueprint provides information about the materials and thickness used in wall construction?

- A. floor plan
- B. section view
- C. schedule
- D. legend

Sand, gravel, water, and cement are all ingredients in

- A. plaster
- B. concrete
- C. paint
- D. brick

Select Structural No. 1 is the commercial grade of lumber used to build beams and

- A. stringers
- B. frames
- C. sashes
- D. trimmers

Only used galvanized hardware and nails when working with _____ lumber.

- A. construction grade
- B. kiln-dried
- C. pressure treated
- D. engineered

A ridge vent is installed to

- A. direct water away
- B. facilitate ventilation
- C. provide insulation
- D. protect from weather

When finishing drywall/sheetrock, _____ is/are installed in the outside corners.

- A. joint tape
- B. compound
- C. corner beads
- D. trim

The top and bottom metal framing members are referred to as

- A. conduit
- B. ducts
- C. jambs
- D. track

How many cubic feet are in a cube that is 5 feet by 5 feet by 5 feet?

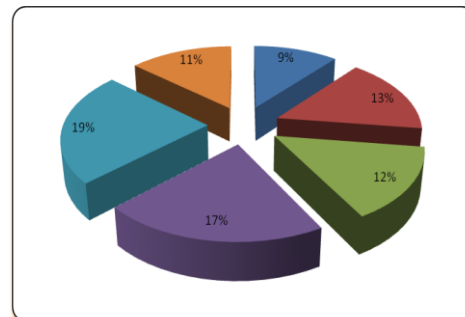
- A. 50 cubic feet
- B. 100 cubic feet
- C. 125 cubic feet
- D. 200 cubic feet

Cap nails are used to

- A. install exterior house wrap
- B. fasten electrical boxes to studs
- C. anchor brackets to concrete
- D. secure metal roofing panels

Performance Assessment:**Administration Time:** 2 hours and 45 minutes**Number of Jobs:** 7**Areas Covered:**

- 9% **Tool and Material Identification** Participant will accurately identify a variety of tools and materials, including saws, bits, saw blades, wrenches, nails, fasteners, lumber, finishing, layout, and marking tools.
- 13% **Square Layout** Participant will use the appropriate equipment and techniques to lay out and chalk a square.
- 12% **Establish a Starting Course for Vinyl Siding Using a Builder's Level** Participant will properly set up and use a builder's level to establish a level chalk line for the starting course of vinyl siding on a wall.
- 17% **Blueprint Reading and Exterior Sole Plate Layout** Participant will lay out a sole plate according to instructions and include all necessary markings.
- 19% **Rafter Layout** Participant will lay out one common rafter using provided plans and materials showing all necessary corrections and adjustments.
- 11% **Stairway Stringer** Participant will layout a 3-tread stringer according to instructions and record correct number of risers, treads, and measurements.
- 19% **Interior Frame** Participant will install an interior frame in a given opening using appropriate procedures, tools, and equipment.



Sample Job: Square Layout

Maximum Time: 20 minutes

Participant Activity: The test participant will chalk out a 12-foot by 12-foot square using blue chalk and placing blocks at the corners, as shown in the drawing provided.

