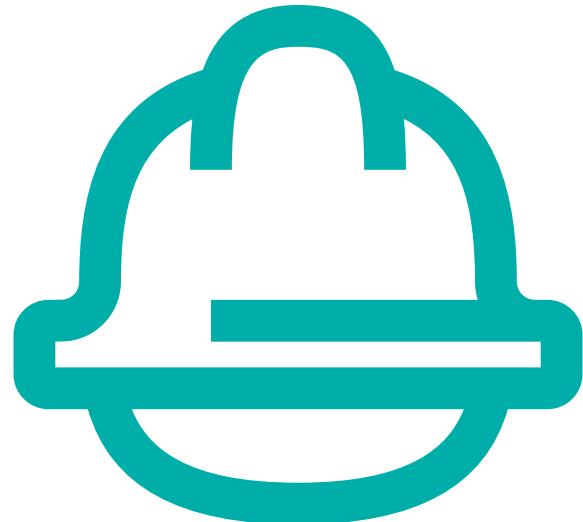


Pilot Assessment

Content is Subject To Change Prior to Full Implementation



Carpentry - Pilot

Code: 4315 / Version: 01



JOB READY ASSESSMENT BLUEPRINT

CARPENTRY - PILOT

Test Code: 4315

Version: 1

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

Carpentry - PILOT (continued)

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

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

- Install and finish interior walls and ceilings
- Install interior doors
- Install standing and running trim
- Install cabinets and associated hardware
- Install 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

Carpentry - PILOT (continued)

Written Assessment:

Administration Time: 2 hours and 30 minutes

Number of Questions: 154

Areas Covered:

- 12% Safety
- 10% Tools and Accessories
- 12% Blueprint Reading and Material Estimation Skills
- 8% Foundations, Forms, and Concrete
- 15% Rough Framing
- 11% Exterior Finish
- 11% Interior Finish
- 13% Carpentry-Related Mathematics
- 8% Weatherization Techniques

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

Carpentry - PILOT (continued)

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 use 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

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

Carpentry - PILOT (continued)

Performance Assessment:

Administration Time: 2 hours and 40 minutes

Number of Jobs: 6

Areas Covered:

12%

Installing Baseboard

Participant will cut trim, fasten face of trim, fasten outside miter corners, install trim, notify evaluator when complete, and disassemble for next participant.

10%

Cabinet Plumbing Rough-In

Participant will set up a tripod and laser to project a level line, measure from level line to determine and drill the appropriate-sized holes for plumbing rough-in on the provided sheet stock, and notify the evaluator when complete.

23%

Rafter Layout

Participant will attach paper to board, lay out common rafter, make and show all necessary corrections and adjustments, and notify evaluator when complete.

17%

Rectangle Layout

Participant will chalk out a 5- by 7-foot rectangle using blue chalk and placing blocks at the corners, and notify evaluator when complete.

17%

Stairway Stringer

Participant will lay out a stringer by calculating riser height, number of risers, tread width, and number of treads, record results, and notify evaluator when complete.

Carpentry - PILOT (continued)

21%

Blueprint Reading and Exterior Sole Plate Layout

Participant will review the provided plan before laying out the sole plate with standard markings for all studs, trimmers, partition tees, and door/window centerlines, also noting the window rough opening width.

Sample Job: Installing Baseboard

Maximum 30 minutes

Job Time:

Participant Activity: Participant will use a miter saw and coping saw to cut trim, use 2" nails to fasten the face of the trim and 1-1/4" brad nails to fasten outside miter corners. Then, the participant will install baseboard trim and ensure all nails are set below the surface of the trim.