General Assessment Information

Blueprint Contents

<table>
<thead>
<tr>
<th>General Assessment Information</th>
<th>Specific Competencies Covered in the Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Assessment Information</td>
<td>Sample Written Items</td>
</tr>
</tbody>
</table>

Test Type: This Pre-Apprenticeship Certificate Training (PACT) certification assessment is a customized assessment for the Home Builders Institute (HBI). This assessment measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment offers a written component and can be used at the secondary level and post-secondary levels. Students who complete training through an HBI PACT program are eligible to sit for the PACT Certification Assessments. This assessment can be delivered in an online or paper/pencil format.

Revision Team: The assessment content is based on input from secondary, post-secondary, and business/industry representatives from the state of Idaho, Florida, Maine, North Carolina, and Washington.

![CIP Code](image)

46.0201 – Carpentry

![CTE](image)

Career Cluster 1 - Architecture and Construction

![O*NET](image)

47-2031.00 - Construction and Related Workers, All Other
The Association for Career and Technical Education (ACTE), the leading professional organization for career and technical educators, commends all students who participate in career and technical education programs and choose to validate their educational attainment through rigorous technical assessments. In taking this assessment you demonstrate to your school, your parents and guardians, your future employers and yourself that you understand the concepts and knowledge needed to succeed in the workplace. Good Luck!

Home Builders Institute (HBI), an affiliate of the National Association of Home Builders (NAHB), is a national leader for career training in the building industry. HBI’s educational materials are designed to be relevant in today’s rapidly changing environment, bringing increased professionalism, competency and effectiveness to those entering the residential construction workforce.

HBI Pre-Apprenticeship Certificate Training (HBI PACT) is a U.S. Department of Labor-approved training curricula for construction programs nationwide. Based on the NAHB occupational skills standards, HBI PACT is utilized by Workforce Investment Boards, private foundations, Home Builder Association pre-apprenticeship programs, unions, State departments of education, juvenile justice and corrections and others training entities and community based organizations that seek to provide an entry-level construction training program to prepare individuals for careers in the building industry. These third-party assessments provide instructors, students and employers a verification of the skills attained in the HBI PACT training program.
This written assessment consists of questions to measure an individual's factual theoretical knowledge.

**Administration Time:** 50 minutes  
**Number of Questions:** 50  
**Number of Sessions:** This assessment may be administered in one session.

### Areas Covered

- **Safety** 20%  
- **Measurement** 20%  
- **Tools & Equipment** 16%  
- **Products & Materials** 14%  
- **Rough Carpentry & Framing** 16%  
- **Interior & Exterior Finishing** 14%
Specific Competencies and Skills Tested in this Assessment

Safety
- OSHA, Fire, Job Site, Tools, SDS, Personal Injuries, First Aid, and Gasoline

Measurement
- Fractions, Feet/Inches, Addition, Perimeter, Linear Feet, Ruler, Area, and Estimating Materials

Tools & Equipment
- Snips, Saws, Screw Heads, Circular Saws, Electric Drills, Belt Sander, Power Drill, Nail Set, Plumb, Saw Blades, Drilling, Screw Gun, and Table Saw

Products & Materials
- Sill Plate, Studs, Lumber, Fasteners, and Glue

Rough Carpentry & Framing
- Blueprint, Floor, Wall, Steel Framing, Roofing, Trusses, Concrete Forms, Floor Framing, and Platforms

Interior & Exterior Finishing
- Roof Framing, Siding, Windows, Drywall, Flooring, Insulation, and Cabinets
Sample Questions

Which of these accurately describes wood and lumber products?
A. Hardwood lumber is usually purchased in the rough.
B. The nominal size and actual size of lumber is the same.
C. Lumber 2 inches and thicker is called timbers.
D. All of the above

What is the total outside dimension (perimeter) of the slab shown?

A. 76 feet
B. 102 feet
C. 140 feet
D. 280 feet
What is the distance measured by line B?

A. 1-3/8 inches  
B. 1-5/8 inches  
C. 1-9/16 inches  
D. 1-3/4 inches

All of the following are recommended procedures for removing nails EXCEPT:

A. tapping a cat’s paw under the nail head with a hammer.  
B. tapping the claw of a crow bar under the nail head with a hammer.  
C. tapping a pry bar under the head of the nail head with a hammer.  
D. tapping the claw of a claw hammer under the nail head with another hammer.

Which of these grades of framing lumber is used most often for floor framing?

A. No. 1  
B. 2 & BTR  
C. SEL STR  
D. Stud grade

How many total board feet are in twelve 2 x 4s 8 feet long?

A. 64 board feet  
B. 20.4 board feet  
C. 16 board feet  
D. 5.3 board feet