



Assessment Blueprint

Basic Principles of Construction



7990- Online Version
7991- Paper/Pencil Version
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General Assessment Information

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Test Type: This Residential Construction Academy certification assessment is a customized assessment for the Home Builders Institute. This assessment measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment offers both a written and performance component and can be used at the secondary level and post-secondary level. 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 California, Connecticut, Idaho, Illinois, Maine, and New York.



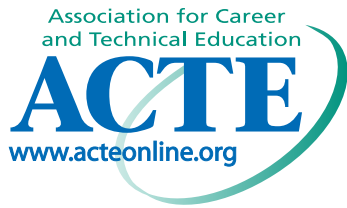
46.9999 – Construction Trades,
Other



Career Cluster 1 - Architecture
and Construction



47-4099.99 – 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!



Affiliate



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/NAHB assessments are based on national skill standards set by NAHB industry professionals and educators as are the materials contained in the Residential Construction Academy Series. Participants passing the assessments are eligible for certification through HBI/NAHB at the entry, semi-skilled or skilled levels.

Written Assessment

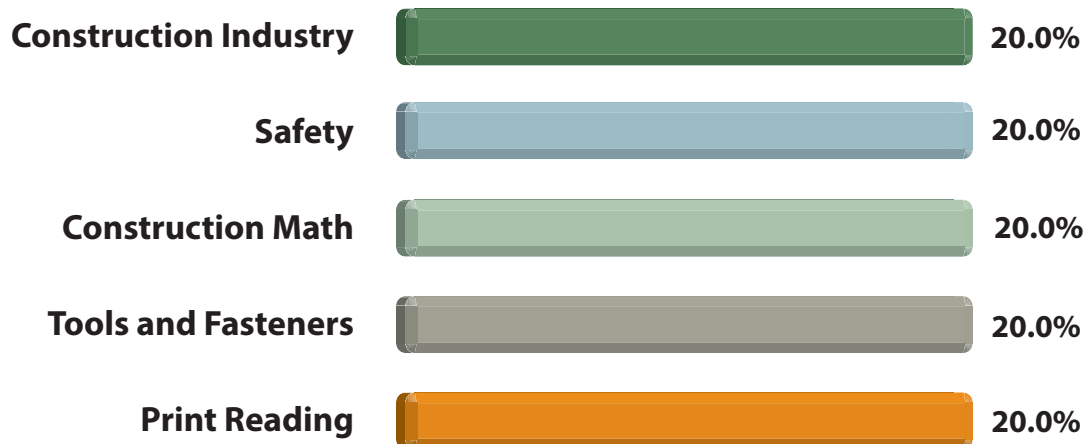
This written assessment consists of questions to measure an individual's factual theoretical knowledge.

Administration Time: 50 minutes

Number of Questions: 50

Number of Sessions: This assessment may be administered in one session.

Areas Covered



Specific Competencies and Skills Tested in This Assessment

Construction Industry

- Organization, Contractor, Expeditor, Estimator, Drafter, Laborer, Engineer, Inspector, Surveyor, Electricians, and Plumbers

Safety

- OSHA, Safety Data Sheets (SDS), Fire Safety, Ladders, Job Site Safety, Personal Protective Equipment, GFCI Safety, and Electrical Safety

Construction Math

- Basic Math

Tools and Fasteners

- Measurements, Tools and Fasteners

Print Reading

- Drawings



Sample Questions

Which of these is responsible for ensuring that local building codes are met by a project?

- A. Expeditor
- B. Technician
- C. Inspector
- D. Estimator

Which fire extinguisher should be used in or near electrical equipment?

- A. Class A
- B. Class B
- C. Class C
- D. Class D

How many 75-watt lighting fixtures can be supported on a 1200-watt circuit?

- A. 12
- B. 16
- C. 18
- D. 20

Which of these hand tools is best for marking a long straight line?

- A. A combination square
- B. A chalk line reel
- C. A 6' tape measure
- D. A 25' tape measure

Which type of drawing is best to show an irregular surface of crown molding?

- A. Front view
- B. Oblique
- C. Elevation
- D. Projection

