



Basic Principles of Construction

Student Codes: 7990 and 7991 / Version: 01
Teacher Code: 9161 / Version: 01
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General Assessment Information

Blueprint Contents

General Assessment Information
Written Assessment Information

Specific Competencies Covered in the Test
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Test Type: This 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 postsecondary 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.



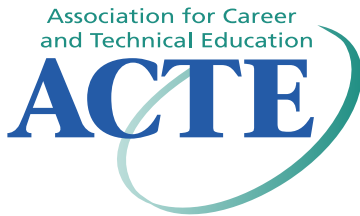
46.9999 – Construction Trades,
Other



Career Cluster - 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!



The Home Builders Institute (HBI) trains skilled workers for the building industry. Through pre-apprenticeship training, certification programs and job placement services, HBI provides graduates with the skills and experience they need to build a career and change their lives. HBI assessments, in partnership with the National Association of Home Builders (NAHB), are based on national skills standards set by industry professionals and educators. Participants passing the assessments are eligible for certification through HBI/NAHB at the entry, semi-skilled, or skilled levels.

Selection of curricula and instructional materials chosen to support assessment achievement must be obtained from material that has been aligned to the Residential Construction National Skill Standards and approved by HBI. For a current listing, please go to <http://www.hbi.org/curriculum/>

Visit www.hbi.org for more information.

Written Assessment

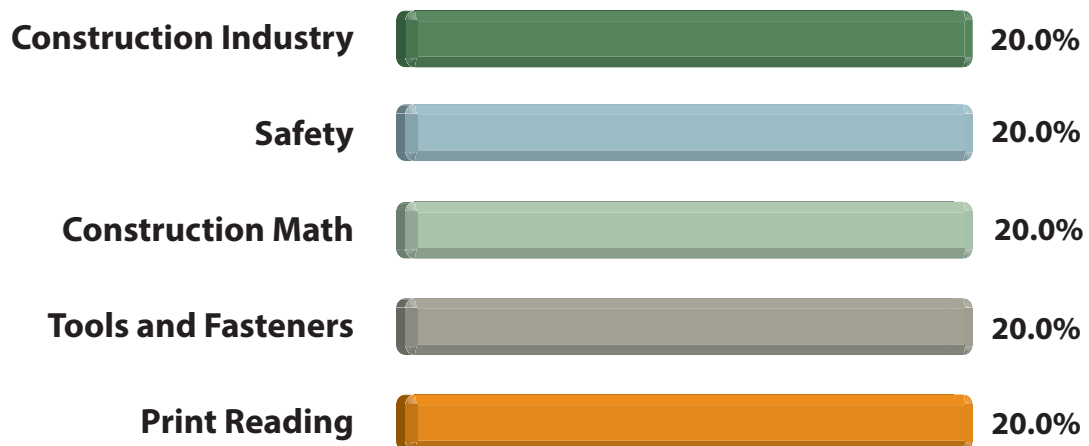
This written assessment consists of questions to measure an individual's factual theoretical knowledge.

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

