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## **Construction**

## General Assessment Information

### Blueprint Contents

General Assessment Information  
Written Assessment Information

Specific Competencies Covered in the Test  
Sample Written Items

**Test Type:** This assessment measures general knowledge of the Construction industry, and the common processes, terminology, and careers in the industry. The assessment is customized to correspond to the content of the Ready for Industry® curriculum from eDynamic Learning. This assessment offers a written (multiple-choice) assessment and can be used at the secondary level, post-secondary level, workforce development centers and businesses. This assessment is delivered online.

**Revision Team:** The assessment content is based on input from secondary, post-secondary, and business/industry representatives from the state of Tennessee, Georgia.



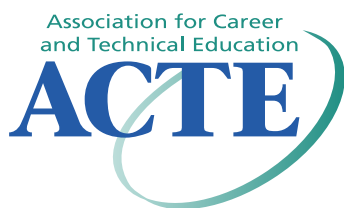
46.0000) Construction Trades,  
General.



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!

## Written Assessment

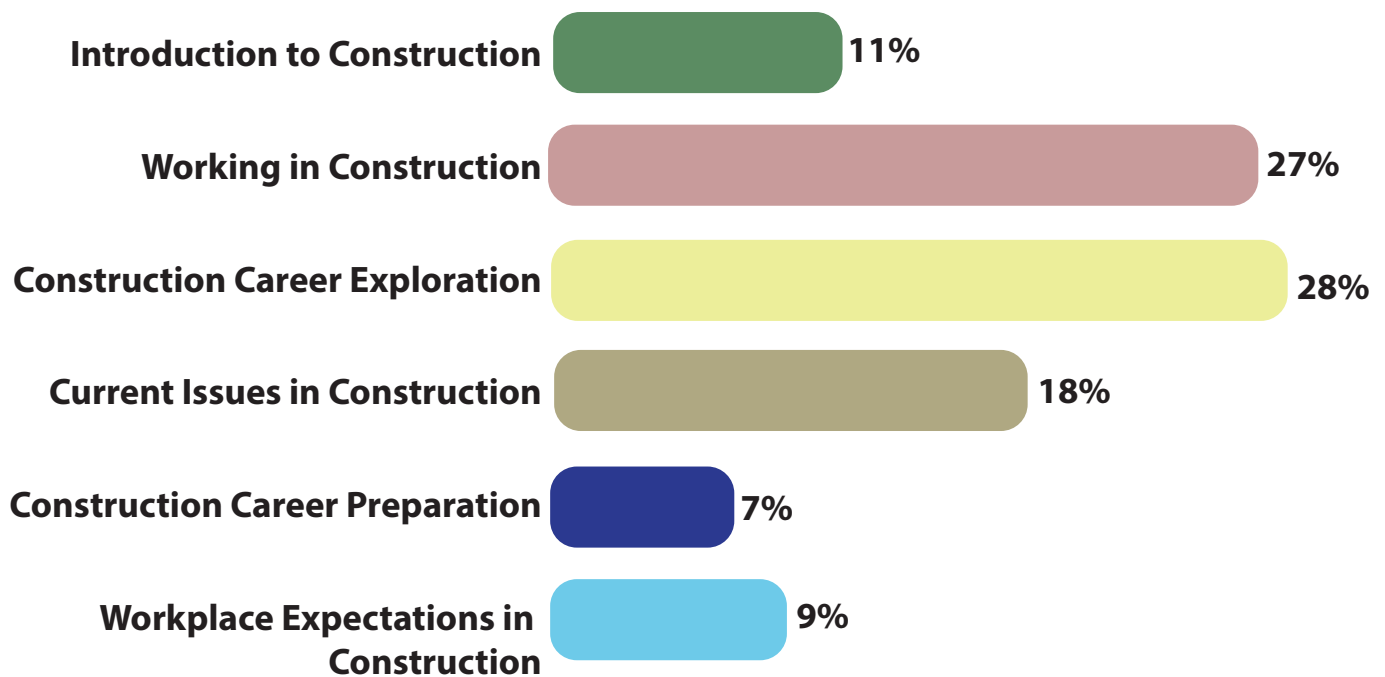
This written assessment consists of questions to measure an individual's factual theoretical knowledge.

**Administration Time:** 1 hour

**Number of Questions:** 56

**Number of Sessions:** This assessment may be administered in three sessions.

### Areas Covered



## Specific Standards and Competencies Included in this Assessment

### **Introduction to Construction**

- Discuss the basic components of architecture
- Describe the construction industry
- Identify basic construction industry terminology

### **Working in Construction**

- Describe fundamentals of building construction and major steps in constructing a house
- Discuss project management systems and software and standard operating procedures for construction
- Identify construction site safety rules including OSHA safety regulations
- Discuss quality issues and defects and construction best practices

### **Construction Career Exploration**

- Describe the role of a civil engineer and construction site manager
- Discuss electrical, HVAC, and plumbing jobs
- Identify roles in painting, welding, and metalworking
- Describe urban planning, solar, and roofing jobs
- Discuss masonry jobs

### **Current Issues in Construction**

- Discuss the lack of skilled labor and the increase in customer demand
- Describe the increase in building material costs and strategic sourcing and procurement
- Identify regional construction issues
- Describe energy conservation and green construction
- Discuss urbanization and smart communities and smart portfolio management
- Describe prefabrication in construction and configuration and structural design

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## Specific Standards and Competencies (continued)

### **Construction Career Preparation**

- Describe several top construction careers
- Describe education pathways for construction careers
- Discuss writing a resume and preparing for a construction career interview
- Determine how to find a job in construction

### **Workplace Expectations in Construction**

- Discuss employer expectations
- Describe teamwork in construction
- Identify goal setting, time management, and self-management in construction

## Sample Questions

**Condominiums and apartments are examples of**

- A. single-family homes
- B. multi-family housing
- C. journey homes
- D. prefabricated housing

**How can project management software help a project?**

- A. reduce waste of time and materials
- B. increase worker benefits and pay
- C. improve architectural drawings and renderings
- D. decrease cost of materials and supplies

**Which type of carpenter typically constructs additions to homes?**

- A. commercial
- B. residential
- C. niche
- D. trim

**More than half of all \_\_\_\_\_ workers are fabricators.**

- A. sheet metal
- B. plumbing
- C. landscape design
- D. crane

**Which type of renewable energy uses a hydraulic turbine-generator?**

- A. biomass
- B. coal
- C. hydropower
- D. solar

