



## Pathway Assessment Blueprint

## Maintenance Operations



*Test Code: 1129/Version: 01*

## Specific Competencies and Skills Tested in this Assessment:

### General Architecture and Construction Technical Skills

- Create and implement project plans considering available resources and requirements
- Read and interpret blueprints and other technical drawings and documents
- Select and use tools, machinery, and equipment commonly used in design and construction

### Maintenance Operations Technical Skills

- Maintain and use operational systems to achieve smooth operation of facilities
- Practice preventive maintenance to service existing structures
- Apply construction skills to the restoration of existing structures

### Academic Foundations

- Apply reading skills in an architecture and construction career environment
- Apply writing skills in an architecture and construction career environment
- Apply mathematical skills in an architecture and construction career environment
- Apply science skills in an architecture and construction career environment

### Systems

- Examine the relationship of roles and responsibilities between trades/professions to complete a job or project
- Apply industry standards and practices to ensure quality work



## ***Specific Competencies and Skills continued:***

### **Ethics and Legal Responsibilities**

- Apply appropriate codes, laws, regulations, and industry standards to architectural and construction situations
- Identify ethical issues and demonstrate ethical behavior in architectural and construction situations

### **Communication**

- Locate, organize, and reference written information from reliable sources to communicate with coworkers and clients
- Apply listening skills and interpret verbal and nonverbal behaviors to enhance communication with coworkers and clients
- Interpret and use tables, charts, and graphics to support written and oral communication

### **Information Technology Applications**

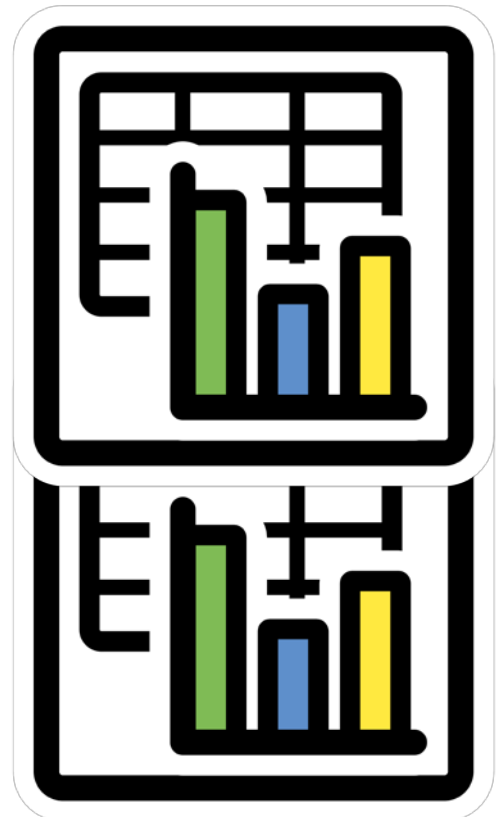
- Use word processing, presentation, and email applications to prepare communications
- Use spreadsheet and database applications to manage and communicate data and information

### **Problem Solving, Critical Thinking, and Decision Making**

- Use problem solving and critical thinking skills to locate good sources of information about problems and determine appropriate methods for investigating causes
- Use problem solving and critical thinking skills to determine root causes of problems and suggest solutions

### **Leadership and Teamwork**

- Exhibit leadership practices to improve the quality of work and the work environment
- Work effectively in a team environment to improve the quality of work and the work environment



### *Specific Competencies and Skills continued:*

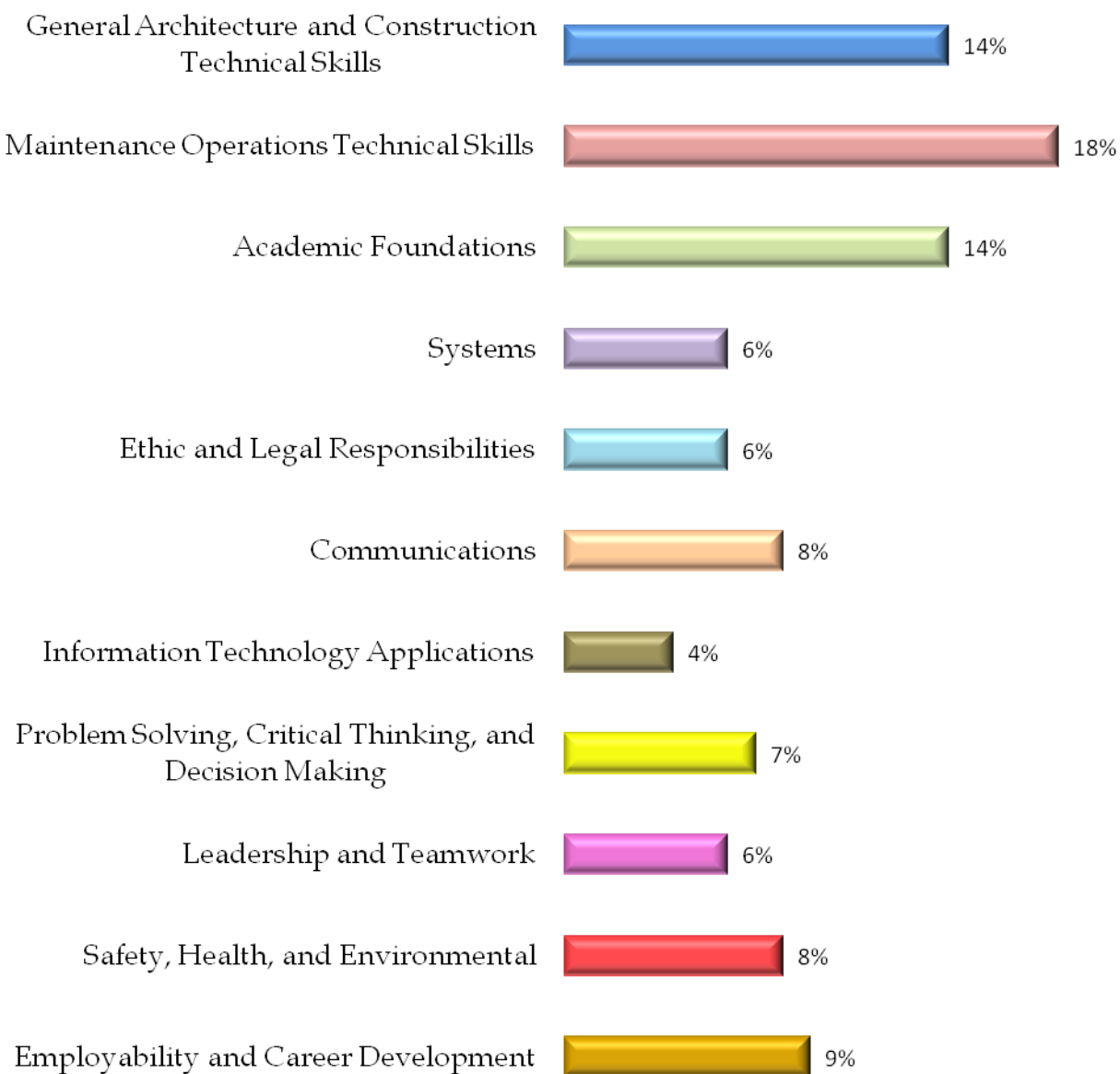
#### **Safety, Health, and Environmental**

- Identify and practice appropriate safety and health procedures for architecture and construction occupations
- Demonstrate appropriate emergency and first aid knowledge and procedures for architecture and construction occupations
- Identify and practice appropriate environmental procedures for architecture and construction occupations

#### **Employability and Career Development**

- Demonstrate employability skills related to a career in architecture and construction
- Pursue career development skills to advance in architecture and construction careers



**Written Assessment:****Administration Time:** 2 hours**Number of Questions:** 101**Areas Covered:**

## Sample Questions:

**The first step in any scientific experiment involves**

- A. identification of the problem
- B. collection of the data
- C. preparation of a conclusion
- D. testing of the solution

**An example of body language that conveys interest in what a speaker is saying is**

- A. repeatedly gazing over the speaker's shoulder
- B. crossing your arms
- C. stifling a yawn
- D. leaning forward slightly in the chair

**A reliable source of career information and networking is**

- A. a professional organization
- B. coworkers
- C. friends and family
- D. the Internet

**One benefit of teamwork for employees is**

- A. less responsibility
- B. higher pay
- C. greater work efficiency
- D. less training is required

**A basic testing instrument that is commonly used to test low voltage is a/an**

- A. multimeter
- B. outlet analyzer
- C. continuity tester
- D. power supply

**When applying active listening skills, the listener might say to the speaker, "What I think I heard you say was..." This process is called**

- A. confronting
- B. clarifying
- C. consolidating
- D. conversing

## Sample Questions (continued)

**When composing a formal business email, avoid the use of**

- A. abbreviations like LOL
- B. descriptive phrases
- C. exclamation points
- D. acronyms like OSHA

**Which of the following adversely affects the strength of materials?**

- A. barometric pressure
- B. stains
- C. altitude
- D. corrosion

**Of the following, the occupation that requires formal post-secondary education is**

- A. building maintenance technician
- B. architect
- C. general contractor
- D. mason

**Use copper, galvanized steel, or \_\_\_\_\_ for roof flashing.**

- A. aluminum
- B. bronze
- C. iron
- D. magnesium