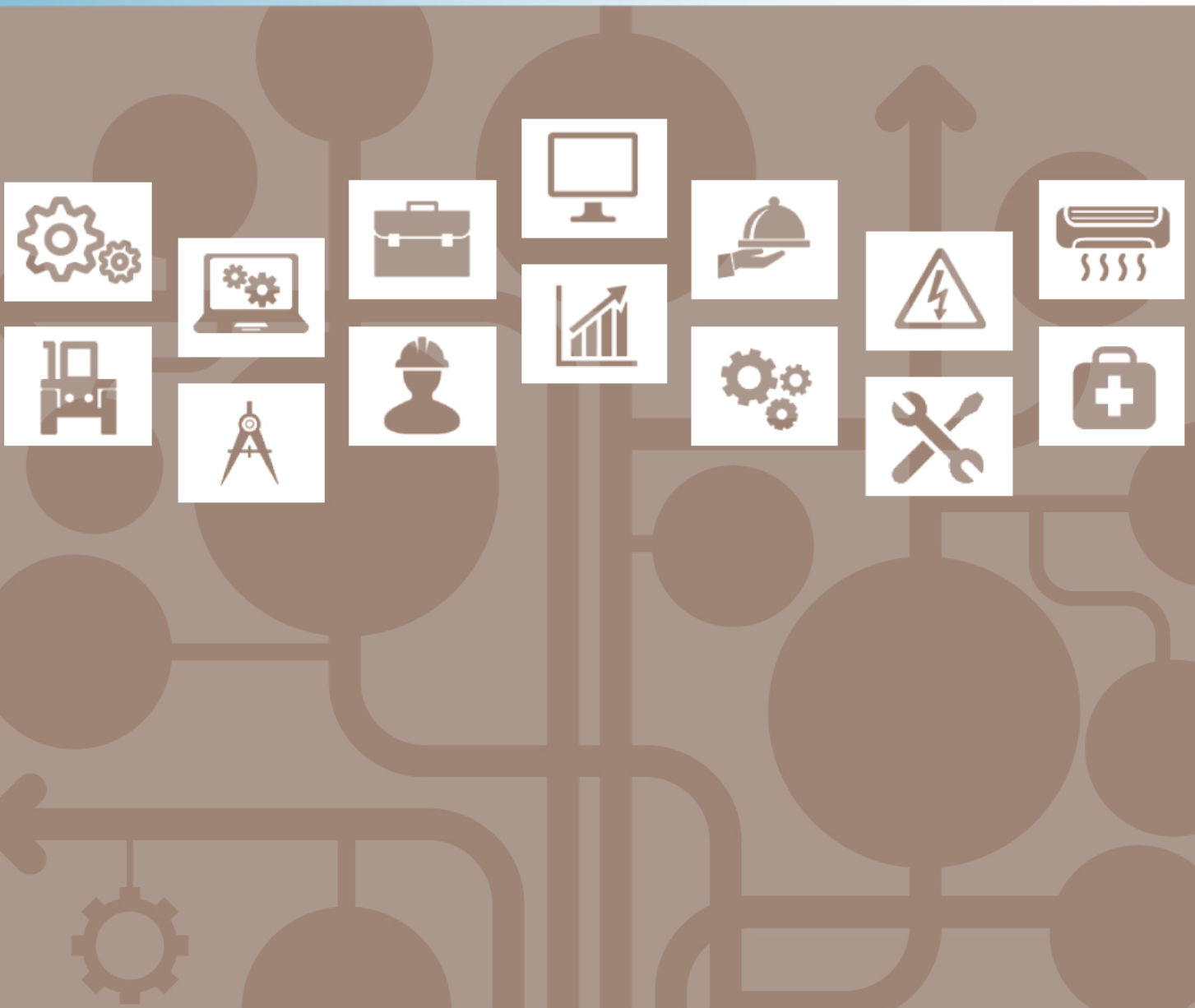


*Pathway Assessment Blueprint*

*Network Systems*



## **Specific Competencies and Skills Tested in this Assessment:**

### **Information Technology Applications Technical Skills**

- Use word processing, presentation software, and email applications to prepare communications
- Use spreadsheet and database applications to manage and communicate data and information
- Identify and select appropriate hardware components associated with information systems
- Identify and select appropriate security practices and applications and network services associated with information systems

### **Network Systems Technical Skills**

- Apply knowledge of network architecture and design
- Identify customer needs and network component requirements
- Perform network maintenance and user support services
- Identify network security issues

### **Academic Foundations**

- Apply language arts skills in an IT environment
- Apply writing skills in an IT environment
- Apply mathematics skills in an IT environment
- Apply science skills in an IT environment

### **Systems**

- Describe the relationship, roles, and responsibilities among IT professionals
- Analyze the impact on IT based on technological advances (e.g., wireless, SmartPhones, cloud computing)
- Identify standard terminology and basic concepts within IT

### **Ethics and Legal Responsibilities**

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

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

### **Communications**

- Locate, organize, and reference written information
- Utilize listening skills and interpret verbal/nonverbal (body language) behaviors to enhance communication
- Interpret and use tables, charts, and figures to support written and oral communication

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

- Locate credible sources of information about problems and determine appropriate methods for investigation causes
- Determine root causes of problems to suggest and evaluate solutions

### **Leadership and Teamwork**

- Apply leadership qualities 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

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

- Identify and practice appropriate safety procedures for IT occupations
- Identify and practice appropriate environmental procedures for IT occupations

### **Employability and Career Development**

- Demonstrate appropriate workplace behaviors related to a career in IT
- Pursue career development skills to advance in IT careers
- Demonstrate knowledge of certifications appropriate for careers in IT

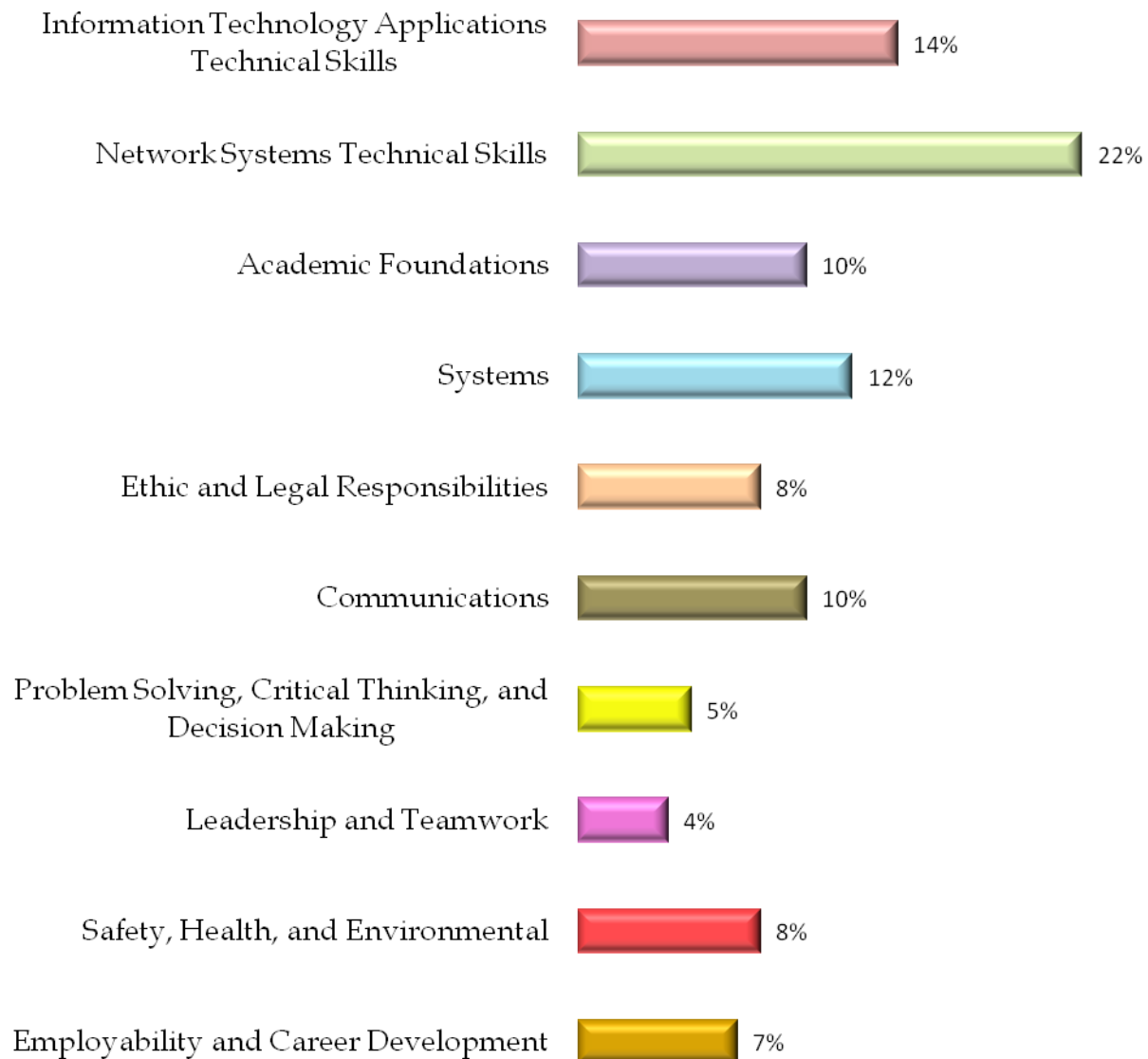


Written Assessment:

**Administration Time:** 2 hours

**Number of Questions:** 113

**Areas Covered:**



## Sample Questions:

**Fiber optic cable allows \_\_\_\_\_ waves to propagate down its length from end to end.**

- A. light
- B. radio
- C. electrical
- D. sonic

**A wireless personal area network is based on which of the following technologies?**

- A. token ring
- B. 802.11b
- C. RFI
- D. Bluetooth®

**The NIC is installed into**

- A. the system board
- B. a port in the modem
- C. the CPU
- D. a CD-ROM drive

**When a group is brainstorming possible solutions for a problem, one of the first steps is to**

- A. only write down correct ideas
- B. criticize all recommendations
- C. discuss and rank each item
- D. record all comments and suggestions

**A properly attached wrist strap decreases the chance of**

- A. RFI
- B. ESP
- C. EMI
- D. ESD

**OSI stands for**

- A. open standard interface
- B. open standard interconnection
- C. open systems interconnection
- D. open serial interface

## Sample Questions (continued)

**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

**A 1-terabyte hard drive is how much larger than a 500-gigabyte hard drive?**

- A. 2 times larger
- B. 5 times larger
- C. 10 times larger
- D. 1,000 times larger

**To ensure that an old computer has been disposed of properly, the technician should**

- A. call the service department 10 days after the equipment was delivered
- B. ask when the equipment will be processed
- C. request a certificate of completion once the work is done
- D. request a call upon demolition

**CompTIA is a non-profit organization involved with**

- A. computer operation systems in IT
- B. certifying organizations for IT
- C. comparison of IT products
- D. timing and independent assessment of IT