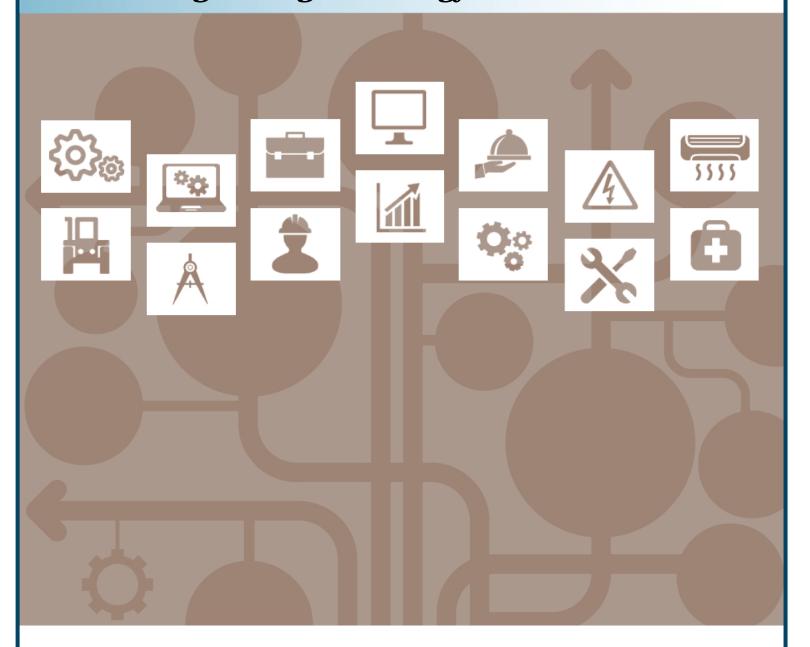


Entry Level Assessment Blueprint

Engineering Technology Foundations



Test Code: 1092 / Version: 01

Specific Competencies and Skills Tested in this Assessment:

Engineering Career Awareness

- Describe engineering fields
- Identify job functions in engineering
- Describe ethics related to engineering

Safety

- Explain and demonstrate the proper use of personal protective equipment (PPE)
- Discuss engineering safety

Teamwork

- Identify the roles and responsibilities of engineering design team members
- Identify characteristics of an effective design team

Materials

- Select the correct materials and components for specific functions
- Test materials for specific characteristics

Production Process

- Explain quality control
- Identify engineering measurement tools and instruments
- Identify statistical process controls



Software

- Discuss word processing and presentation software
- Describe and demonstrate the process for using CAD in a design solution
- Identify and interpret spreadsheet data for engineering applications

Specific Competencies and Skills continued

Engineering Principles

- Describe statics principles in engineering
- Describe mechanical systems principles
- Describe electricity principles
- Identify components and applications of fluid power principles
- Describe principles and applications of thermodynamics

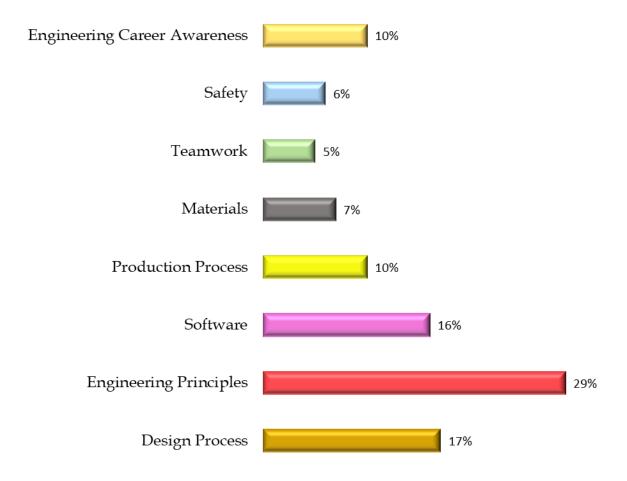
Design Process

- Identify the components of the design process
- Identify the elements of a well-written problem statement
- Describe the process of brainstorming
- Build a prototype from working drawings using appropriate materials
- Test prototype to defined criteria

Written Assessment:

Administration Time: 2 hours **Number of Questions:** 82

Areas Covered:



Sample Questions:

An enginee	r who deals with surveying is called a/an engineer.
B.	mechanical electrical industrial civil
The amount	that a dimension may vary is called
В. С.	leeway clearance tolerance variability
To double tl	he size of an object in a CAD drawing, use the command.
В. С.	
The AC vol	tage wave form is called a wave.
A. B. C. D.	half
The original	sample of a product or process used in research and development is called
В. С.	originator prototype instigator pattern