



## Job Ready Assessment Blueprint

# Apparel and Textile Production and Merchandising



Test Code: 3018 / Version: 01

**“Measuring What Matters”**

## Specific Competencies and Skills Tested in this Assessment:

### Garment Construction

- Prepare, layout, cut, and mark fabric and patterns
- Construct seam and seam finishes
- Apply and construct shaping details
- Construct and set pockets
- Construct and attach sleeves
- Construction and attach waistbands, collars, and cuffs
- Apply facings, interfacings, and yokes
- Sew underlinings and linings
- Display knowledge of proper pressing procedures for construction
- Construct and attach closures
- Display knowledge of hemming procedures



### Finished Garment Alterations

- Analyze and mark garment fit
- Convert darts
- Alter hem length
- Replace zippers and fasteners
- Adjust crotch of trousers
- Remove excess garment width
- Enlarge or decrease waist measurement

### Textiles

- Identify and explain the properties of synthetic and natural fibers
- Describe yarn and fabric construction and uses
- Compare/contrast chemical and mechanical finishes and conversion processes
- Distinguish color theory, methods, and effects



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

### **Applied Mathematics**

- Perform mathematical computations related to the apparel and textile industry
- Use geometric concepts to create paper patterns
- Calculate production costs and profits
- Show proficiency in measuring and using measures



### **Design and Patternmaking**

- Demonstrate basic pattern-making systems (draping and flat pattern drafting)
- Analyze and adjust patterns for various figure types
- Identify, manipulate, and combine various techniques to develop design details

### **Industrial and Domestic Apparel Manufacturing**

- Identify and safely operate domestic and industrial sewing machines
- Select appropriate machines and attachments for a given task
- Demonstrate stitching techniques
- Perform basic machine maintenance and troubleshooting
- Identify apparel and manufacturing terms

### **Apparel Technology**

- Identify computer terminology related to the apparel and textile industry
- Demonstrate knowledge of computers in the apparel and textile industry
- Identify awareness of computer-aided design technology (CAD/CAM)



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

**Apparel and Textile Merchandising**

- Identify apparel and textile merchandising terminology
- Differentiate market segmentation
- Develop market research strategies (demographics, focus groups, etc.)
- Apply techniques for inventory management
- Recognize multichannel (e-commerce) merchandising techniques
- Apply customer service and selling techniques



**Career Opportunities**

- Identify employment opportunities (textiles, design, production, and retail)
- Determine educational and training requirements for apparel and textile industry employment

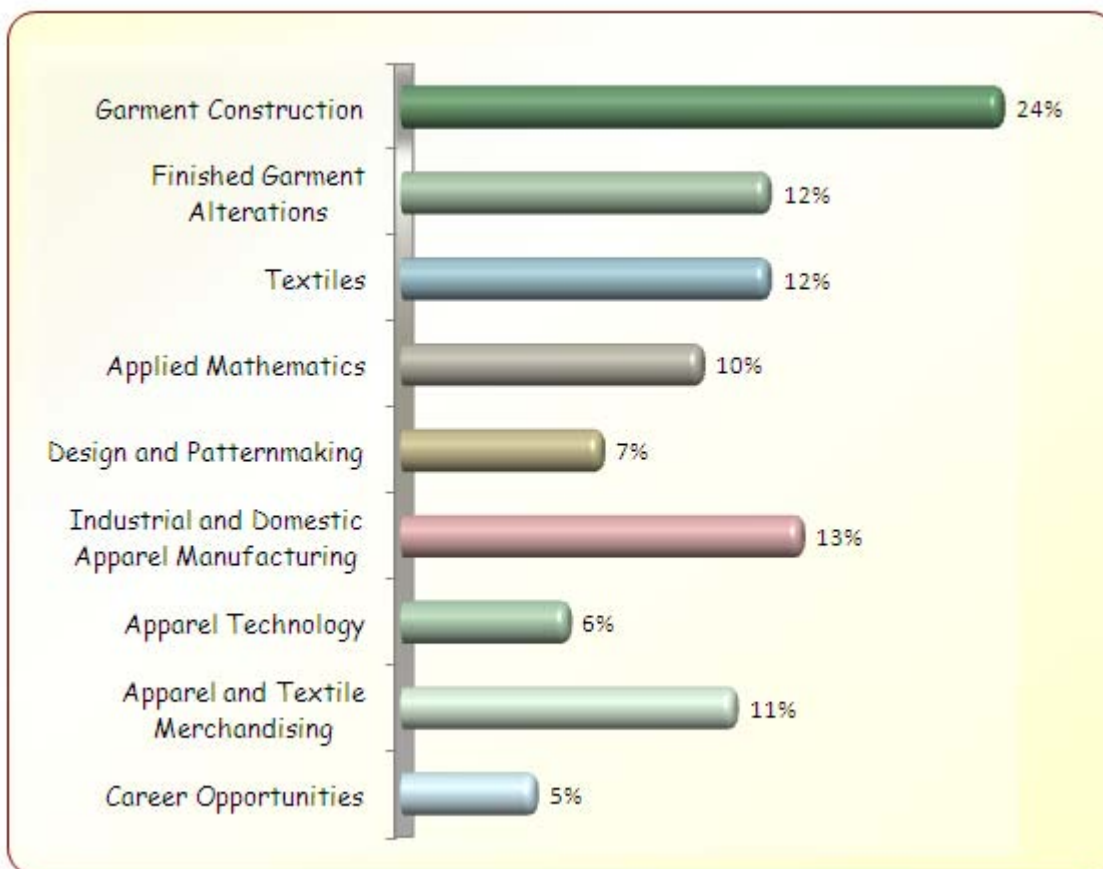


### Written Assessment:

Administration Time: 3 hours

Number of Questions: 185

### Areas Covered:



## Sample Questions:

Buttonholes go on the \_\_\_\_\_ side of a man's shirt.

- A. right
- B. left
- C. upper
- D. under

Darts can be converted to

- A. tacks
- B. tucks
- C. plackets
- D. yokes

Silk comes from a

- A. plant
- B. root
- C. worm
- D. leaf

The proportion of a drawing figure is measured in

- A. feet
- B. heads
- C. inches
- D. hands

Designing apparel and textiles with computer equipment is called

- A. CAD
- B. CAM
- C. CEM
- D. CID



## Performance Assessment:

**Administration Time:** 3 hours

**Number of Jobs:** 5

### Areas Covered:

#### 12% **Patternmaking**

Determine princess line on sloper pattern back (piece 1), determine princess line on sloper pattern front (piece 2), and time to complete Job 1.

#### 16% **Invisible Zipper Insertion**

Cut fabric to specifications, zipper insertion, sewing machine operation, quality of stitching, and time to complete Job 2.

#### 16% **Seam Samples**

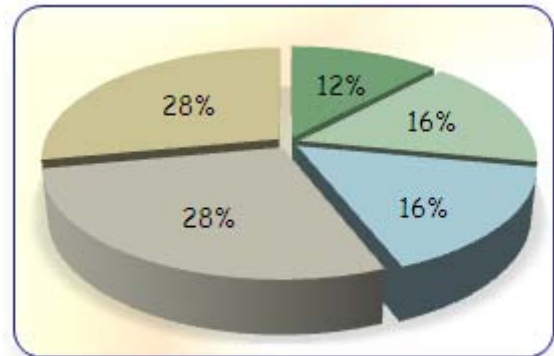
Plain seam, turned under (clean-finished) seam, serged or overlocked seam, flat fell seam, French seam, and time to complete Job 3.

#### 28% **Bodice Construction**

Bodice layout and cutting, sleeve layout and cutting, single pointed dart construction, double pointed dart construction, sleeve construction, seams, sewing machine operation, quality of stitching, finishing, and time to complete Job 4.

#### 28% **Layout, Cut, and Construct Straight Legged Pants**

Fabric preparation, measuring for grainline, pinning procedures, cutting, pattern marking: notches and hems, sewing machine operation, seam construction, waistline casing construction, hem construction, and time to complete Job 5.



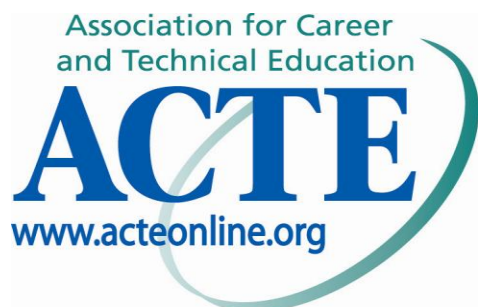
**Sample Job:** Seam Samples

**Maximum Time:** 30 minutes

**Participant Activity:** The participant, using tools, equipment, and materials provided, will construct seam samples as instructed. Each seam sample should be 8 inches long. Seams should be in "consumer acceptable" condition upon completion.



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!