

Job Ready Assessment Blueprint

Apparel and Textile Production
and Merchandising



Test Code: 3018 / Version: 01

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General Assessment Information

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Test Type: The Apparel and Textile Production and Merchandising industry-based credential is included in NOCTI's Job Ready assessment battery. Job Ready assessments measure technical skills at the occupational level and include items which gauge factual and theoretical knowledge. Job Ready assessments typically offer both a written and performance component and can be used at the secondary and post-secondary levels. Job Ready assessments can be delivered in an online or paper/pencil format.

Revision Team: The assessment content is based on input from secondary, post-secondary, and business/industry representatives from the states of Connecticut, Illinois, New York, and Pennsylvania.



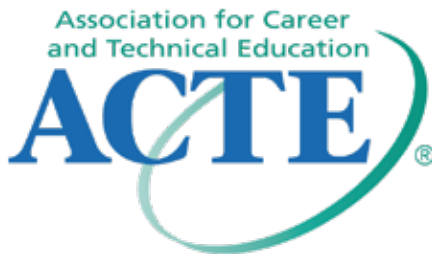
19.0999-
Apparel and Textiles, Other



Career Cluster 13-
Manufacturing



51-6031.00- Sewing
Machine Operators



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!



In the lower division
baccalaureate/associate degree
category, 3 semester hours in
Apparel and Textile Production
and Merchandising

Written Assessment

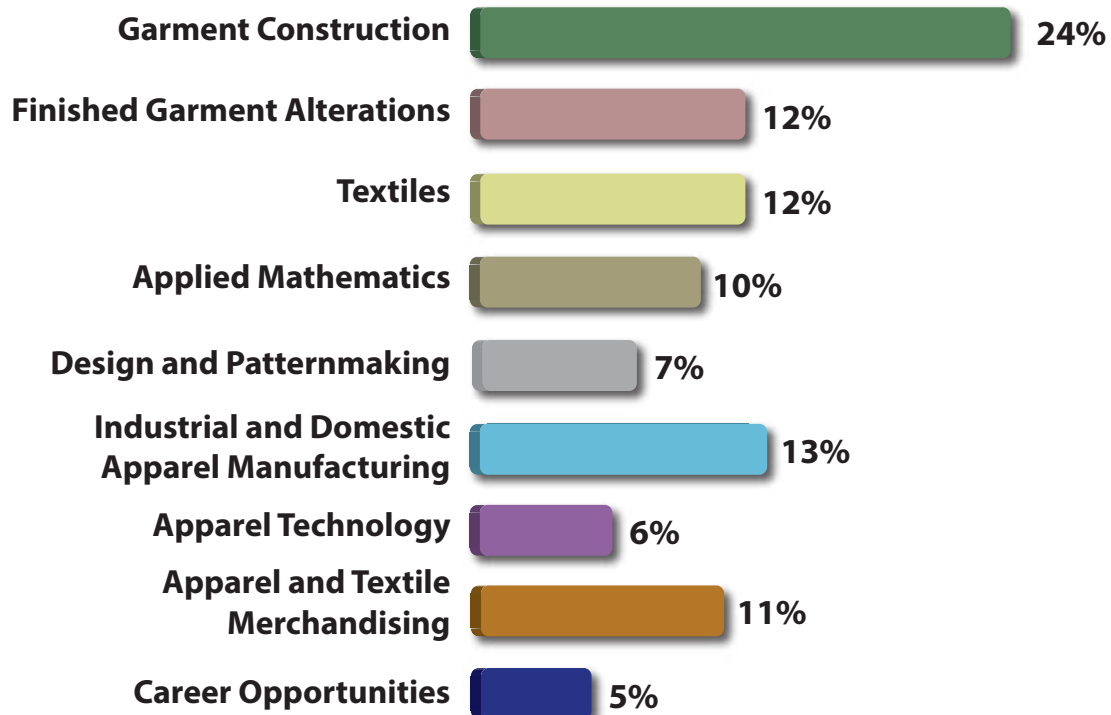
NOCTI written assessments consist of questions to measure an individual's factual theoretical knowledge.

Administration Time: 3 hours

Number of Questions: 185

Number of Sessions: This assessment may be administered in one, two, or three sessions.

Areas Covered



Specific Standards and Competencies Included in this Assessment

Garment Construction

- Prepare, lay out, cut, and mark fabric and patterns
- Construct seam and seam finishes
- Apply and construct shaping details
- Construct and set pockets
- Construct and attach sleeves
- Construct 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

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Specific Standards and Competencies (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)

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Specific Standards and Competencies (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



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

(Continued on the following page)

Sample Questions (continued)

To shorten the length of a pencil skirt,

- A. make the hem allowance less
- B. make the hem allowance more
- C. keep the hem allowance the same
- D. use a different type of hem

If a blouse feels tight and has wrinkles across the front and back shoulders,

- A. pull up the shoulder seam at the neck
- B. take out of the bust dart
- C. take out of the side seam at the bust
- D. readjust the collar at the center back

Which of the following is a secondary color?

- A. red
- B. blue
- C. green
- D. white

SPI means

- A. space per inch
- B. speed per inch
- C. stitches per inch
- D. strokes per inch

The survey method of researching is done by

- A. asking customers to fill out questionnaires
- B. watching customers in the store
- C. gathering national statistics from the Internet
- D. issuing store coupons to customers

Performance Assessment

NOCTI performance assessments allow individuals to demonstrate their acquired skills by completing actual jobs using the tools, materials, machines, and equipment related to the technical area.

Administration Time: 3 hours

Number of Jobs: 5

Areas Covered:

12% Patternmaking

Participants will determine princess line on sloper pattern for front and back within the time allowed.

16% Invisible Zipper Insertion

Participants will cut fabric to specifications, insert the zipper, and operate sewing machine correctly with quality stitching.

16% Seam Samples

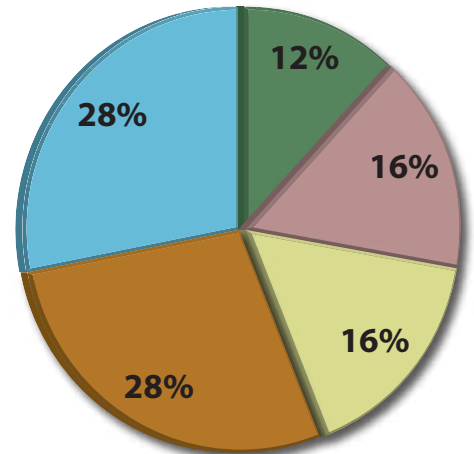
Participants will stitch a plain seam, a turned under seam, a serged or overlocked seam, a flat fell seam, and a French seam.

28% Bodice Construction

Participants will layout and cut the bodice and sleeves, correctly use single pointed and double pointed dart construction, construct sleeves, stitch seams, and operate the sewing machine properly with quality stitching.

28% Lay Out, Cut, and Construct Straight Legged Pants

Participants will prepare fabric, measure for grainline, pin and cut correctly, mark notches and hems, operate sewing machine correctly, construct seams, construct waistline casing, and construct the hem.



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.

