

PERFORM QUALITY CONTROL

UNIT CODE: ENG/OS/TXP/CR/05/5/A

UNIT DESCRIPTION

This unit describes the competencies required by a textile processing craft person to perform quality control. It involves competencies required to obtain fabric sample, prepare fabric sample, set up machine, test textile material, grade final fabric and document inspection results.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
<p>These describe the key outcomes which make up workplace function</p>	<p>These are assessable statements which specify the required level of performance for each of the elements <i>(Bold and italicized terms are elaborated in the Range)</i></p>
<p>1 Obtain Textile Material Sample</p>	<p>1.1 Work order is received and interpreted according to customer requirements</p> <p>1.2 Requisition for textile material sample is prepared and issued according to organisational procedures</p> <p>1.3 Textile material sample is obtained according to organisational procedures</p> <p>1.4 Textile material sample is delivered to inspection laboratory according to organisational procedures</p>
<p>2 Prepare Fabric Sample</p>	<p>2.1 Safety is observed according to OSH act</p> <p>2.2 Tools and equipment to prepared samples are obtained according to organisational procedures</p> <p>2.3 Textile material samples are conditioned according to test specification.</p>
<p>3 Set Up Machine</p>	<p>3.1 Safety is observed according to OSH act</p> <p>3.2 Machine operation manual is obtained according to organisational procedures</p> <p>3.3 Necessary tools and consumables are obtained according to operation manual</p> <p>3.4 Textile material sample is mounted onto testing machine according to manufacturer's manual and product design.</p> <p>3.5 Testing machine parameters are set up according to operation manual</p>

4 Test Textile Material	<p>4.1 Test environment is conditioned according to specified standard.</p> <p>4.2 Textile material test is identified according to job specification.</p> <p>4.3 Textile material testing standards are obtained according to organisational procedures.</p> <p>4.4 Textile material testing equipment are selected and set up according test specification.</p> <p>4.5 Prescribed test is carried out according to job specification.</p>
5 Grade Final Fabric	<p>5.1 Textile material quality reference standards are obtained according to organisational procedures</p> <p>5.2 Inspected textile material characteristics are identified according to quality requirements</p> <p>5.3 Inspected textile material characteristics are interpreted according to quality and customer requirements</p> <p>5.4 Inspected textile material is graded according acceptable quality and customer requirements</p> <p>5.5 Graded textile material is packaged and stored according to organisation procedures</p>
6 Document Inspection Results	<p>6.1 Documentation tools are obtained according to organisational procedures</p> <p>6.2 Inspection result is documented according to organisational procedures</p> <p>6.3 Report is generated according to organizational procedures</p>

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

Variable	Range
1. Tools and equipments may include but is not limited to:	<ul style="list-style-type: none"> • GSM cutter • Tape measure
2. Necessary tools and consumables may	<ul style="list-style-type: none"> • Greasing gun • Grease • Oil

Variable	Range
include but is not limited to:	
3. Textile material test may include but is not limited to:	<ul style="list-style-type: none"> • Bursting strength • Pilling • Tensile strength • Wrinkle recovery • Tearing strength
4. Textile material testing equipment may include but is not limited to:	<ul style="list-style-type: none"> • Bursting strength tester • Pilling tester • Tensile strength tester • Wrinkle recovery tester • Tearing strength tester

REQUIRED KNOWLEDGE

The individual needs to demonstrate knowledge of:

- Properties of textile materials
- Textile testing equipment
- Identification of textile material defects and faults
- Fault rectification techniques
- Applicable textile standards
- Safety practices and procedures
- Sampling techniques
- Documentation
- Principle of testing
- Textile processes
- Interpretation of test results
- Mathematics understanding
- Physics
- Inspection reference standards

REQUIRED SKILLS

The individual needs to demonstrate skills in:

- Inspection of textile products
- Testing of textile Material
- Control of textile testing equipment
- Correcting process defects
- Sample preparation
- Grading

- Interpreting and following information on written job instructions, manufacturer specifications, standard operating procedures, charts, lists, reports and other applicable reference documents
- Checking and clarifying information
- Planning and sequencing tasks
- Identifying non-compliances
- Communication skills– oral/written
- Data collection
- Manage work efficiently
- Time management
- Troubleshooting
- House keeping
- Effective communication
- Application of safety procedures
- Energy conservation
- Good decision making
- Time management
- Report writing

EVIDENCE GUIDE

This provides advice on assessment and must be in conjunction with the performance criteria, required skills and knowledge and range.

<p>1. Critical Aspects of Competency.</p>	<p>1.1 Obtained fabric sample 1.2 Prepared fabric sample 1.3 Set up machine 1.4 Tested textile material 1.5 Graded final fabric 1.6 Documented inspection results.</p>
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<p>2. Resource Implications.</p>	<p>2.1 Grey fabric sample 2.2 Processed fabric 2.3 Finished fabric 2.4 Tailor Chalk 2.5 Polythene Sheets 2.6 Spectrophotometer 2.7 Nipper 2.8 Pointer 2.9 Comb 2.10 Fault marker 2.11 GSM cutter 2.12 Magnifying glass 2.13 Ends, picks per inch counter 2.14 Needle 2.15 Inspection table 2.16 Inspection machine 2.17 Inspection laboratory 2.18 Documentation tool and equipment</p>
<p>3. Methods of Assessment.</p>	<p>Competency may be assessed through: 3.1 Practical 3.2 Observation 3.3 Questionnaire 3.4 Case studies 3.5 Written examinations 3.6 Oral presentation</p>
<p>4. Context of Assessment.</p>	<p>Competency may be assessed individually in an actual workplace or in work-simulated conditions within accredited institutions.</p>
<p>5. Guidance information for assessment.</p>	<p>This unit may be assessed on an integrated basis with others within this occupational sector.</p>