

# QUALITY CONTROL

**UNIT CODE:** ENG/CU/TXP/CR/05/5/A

## Relationship to Occupational Standards

This unit addresses the unit of competency: **Perform quality control**

**Duration of Unit:** 130 hours

## 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.

## Summary of Learning Outcomes

1. Obtain fabric sample
2. Prepare fabric sample
3. Set up machine
4. Test textile material
5. Grade final fabric
6. Document inspection results

## Learning Outcomes, Content and Suggested Assessment Methods

| Learning Outcome         | Content   | Suggested Assessment Methods  |
|--------------------------|---|---|
| 1. Obtain fabric sample  | <ul style="list-style-type: none"><li>• Introduction to fabric inspection</li><li>• Types of fabrics</li><li>• Characteristics of fabric</li><li>• Fabric sampling methods</li><li>• Fabric reference standards</li></ul> | <ul style="list-style-type: none"><li>• Oral questions</li><li>• Written tests</li><li>• Observation</li><li>• Practical</li><li>• Individual assignments</li><li>• Group assignments</li></ul> |
| 2. Prepare fabric sample | <ul style="list-style-type: none"><li>• Sample preparation tools and equipment</li><li>• Sample preparation procedure</li><li>• Test samples requirements</li></ul>   | <ul style="list-style-type: none"><li>• Oral questions</li><li>• Written tests</li><li>• Observation</li><li>• Practical</li><li>• Individual assignments</li><li>• Group assignments</li></ul> |
| 3. Set up machine        | <ul style="list-style-type: none"><li>• Machinery safety</li></ul>  | <ul style="list-style-type: none"><li>• Oral questions</li></ul>  |

|                                |   |  |
|--------------------------------|---|--|
|                                | <ul style="list-style-type: none"> <li>• Types of testing machines</li> <li>• Component of testing machines</li> <li>• Testing parameters</li> <li>•</li> <li>•</li> </ul>  | <ul style="list-style-type: none"> <li>• Written tests</li> <li>• Observation</li> <li>• Practical</li> <li>• Individual assignments</li> <li>• Group assignments</li> </ul>                           |
| 4. Test textile material       | <ul style="list-style-type: none"> <li>• Safety operations</li> <li>• Equipment operation</li> <li>• Textile material properties</li> <li>• Textile material defects</li> <li>• Textile tests reference standards</li> <li>•</li> </ul>                   | <ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Written tests</li> <li>• Observation</li> <li>• Practical</li> <li>• Individual assignments</li> <li>• Group assignments</li> </ul> |
| 5. Grade final fabric          | <ul style="list-style-type: none"> <li>• Importance of grading fabric</li> <li>• Procedure of grading fabric</li> <li>• Fabric grading systems</li> </ul>   | <ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Written tests</li> <li>• Observation</li> <li>• Practical</li> <li>• Individual assignments</li> <li>• Group assignments</li> </ul> |
| 6. Document inspection results | <ul style="list-style-type: none"> <li>• Documentation tools and equipment</li> <li>• Technical report writing</li> <li>• Fabric inspection reference standards</li> <li>• Documentation of testing results</li> <li>• Filing and data storage</li> </ul> | <ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Written tests</li> <li>• Observation</li> <li>• Practical</li> <li>• Individual assignments</li> <li>• Group assignments</li> </ul> |

### Suggested Methods of Instruction

- Theory facilitated by trainer
- Demonstration by trainer
- Practical work by trainee(s)
- Group discussions
- Exercises by trainee(s)
- Field trips to textile mills

### Recommended Resources

- Grey fabric sample

- Processed fabric
- Finished fabric
- Tailor Chalk
- Polythene Sheets
- Spectrophotometer
- Nipper
- Pointer
- Comb
- Fault marker
- GSM cutter
- Magnifying glass
- Ends, picks per inch counter
- Needle
- Inspection table
- Inspection machine
- Inspection laboratory
- Documentation tool and equipment
- Stationeries
- Overhead projector/ Black or white board
- Computer and its accessories
- Weighing balance

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