Assessment Evidence Guide

For

"Textile Wet Processing"

Level-4

(Summative Assessment-2)

National Vocational & Technical

Training Commission

Instruction Sheet for the Candidate

Title of Qualification: National Vocational Certificate Level 5 in Textile Wet Processing (Supervisor)	**CS Code:**	**Level:** 05	**Version:**01
Competency Standard Title: • Supervise Pre-treatment Processes • Supervise Fabric Dyeing Processes • Supervise Fabric Printing Processes • Supervise Fabric Finishing Process • Practice Professionalism	**Assessment Date (DD/MM/YY):** **Assessment Time:** 5 hrs.		

Candidate Details	Name: ..... Registration/Roll Number: .....

Guidance for Candidate	**To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):** **Assessment Task 1:** Candidate is required to perform Piling, TEGEWA, Yellowness whiteness and Absorbency tests on assigned fabric, before Printing process. And also Prepare Final Lab Test Report using MS Excel. **Assessment Task 1:** Candidate is required to perform Finishing Tests on assigned printed fabric, including: o Calculate Fabric Weight (GSM/ (Oz/Yd2) o Width o Shrinkage, Skewness and Bowing, Tear and Tensile tests **And complete:** **1. Knowledge assessment test (Written or Oral)** **2. Portfolios at the time of assessment (if any)**
Minimum Evidence Required	**During a practical assessment, under observation by an assessor, you will complete:** **Performance Criteria 1:** Perform test for Singeing (Pilling Test) as per set Standards **Performance Criteria 2:** Perform test for De-Sizing (TEGEWA) as per set Standards **Performance Criteria 3:** Perform test for Scouring (Absorbency Test) as per set Standards **Performance Criteria 4:** Perform test for bleaching (Yellowness Whiteness) as per set Standards

	Assessment Task 2 **Performance Criteria 1:** Calculate Fabric Weight (GSM/ (Oz/Yd2) **Performance Criteria 2:** Check fabric Width **Performance Criteria 3:** Perform Skewness and Bowing Test **Performance Criteria 4:** Perform Tear and Tensile Test **Performance Criteria 5:** Perform Shrinkage Test

Assessors Judgment Guide

(to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: ..... Registration/Roll Number: ..... Candidate Signature:..... .....
Assessment Outcome	COMPETENT☐ NOT YET COMPETENT☐ Name of the Assessor:..... Assessor's code:..... Signature of the Assessor: ....

Assessment Summary (to be filled by the assessor)							
Activity	**Method**					**Result**	
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Practical Skill Demonstration			✓				
Knowledge Assessment	✓	✓					
Other Requirement							

Observation Checklist

Each Assessment Task (with performance criteria)	
Assessment Task 1	**Description of Assessment Task 1** Candidate is required to perform Piling, TEGEWA, Yellowness whiteness and Absorbency tests on assigned fabric, before Printing process. And also Prepare Final Lab Test Report using MS Excel.

During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Perform test for Singeing (Pilling Test) as per set Standards			
2.	Perform test for De-Sizing (TEGEWA) as per set Standards			
3.	Perform test for Scouring (Absorbency Test) as per set Standards			
4.	Perform test for bleaching (Yellowness Whiteness) as per set Standards			
Competent ☐		Not Yet Competent ☐		

Assessment Task 2	**Description of Assessment Task 2** Candidate is required to perform Finishing Tests on assigned printed fabric, including: o Calculate Fabric Weight (GSM/ (Oz/Yd2) o Width o Shrinkage, Skewness and Bowing, Tear and Tensile tests

During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Calculate Fabric Weight (GSM/ (Oz/Yd2)			
2.	Check fabric Width			
3.	Perform Skewness and Bowing Test			
4.	Perform Tear and Tensile Test			
5.	Perform Shrinkage Test			
Competent ☐		Not Yet Competent ☐		

Portfolio					**Description of Portfolio** Candidate is required to present a portfolio including:		
Current ☐	Sufficient ☐	Authentic ☐	Valid ☐	Reliable ☐			
Portfolio meet the following performance standards:					Yes	No	Remarks
1.	File/folder of Supervise Fabric Printing Processes						
2.	File/folder of Supervise Fabric Finishing Processes						
Competent ☐					Not Yet Competent ☐		

Knowledge Assessment

Title of Qualification: National Vocational Certificate Level 5 in Textile Wet Processing (Supervisor)	**CS Code:**	**Level:** 05	**Version:**01
Competency Standard Title: • Supervise Pre-treatment Processes • Supervise Fabric Dyeing Processes • Supervise Fabric Printing Processes • Supervise Fabric Finishing Process • Practice Professionalism	**Assessment Date (DD/MM/YY):** **Assessment Time:** 30 mins		

Guidance for Candidate	**To complete your assessment for this Competency Standard, you need to answer the questions on the following pages successfully.**

Candidate Details	Name: ..... Registration/Roll Number: Candidate Signature: ....
Written Assessment Outcome	COMPETENT ☐ NOT YET COMPETENT ☐ Name of the Assessor: ..... Assessor's code: ..... Signature of the Assessor: ....

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)	
1. How to convert GSM into (Oz/Yd^2)?	Divide the GSM by 33.906
2. How to calculate GSM?	Multiply the average weight of swatches by 100 to calculate the GSM of the sample fabric.

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)	
3. How Yarn Count is Measured?	It is usually measured by the number of grams per one kilometer of yarn
4. What is Pilling Test?	It is to measure and determine how resistant fabrics are to pilling or fuzzing.
5. Name International Quality Standard Systems for Textile Industry.	• American Association of Textile Chemists and Colorists (AATCC) • International Organization for Standardization (ISO) • American Society for Testing and Materials (ASTM)
1. What is Bowing and Skewness?	Bowing & Skewing are defects which are created when there is a distortion in weft laid across the whole width of the fabric.
2. What is fabric Tear strength?	Fabric Tear strength is the resistance to propagate the existing tear in the fabric.
3. How do you test the tensile strength of fabric?	The strip test is a tensile test in which the full width of the test specimen is gripped in the tensile grip jaws of a universal testing machine. During this test, tensile force is applied on the fabric specimen until it ruptures.
4. How do you test fire retardant fabric?	Alcohol is added to the small piece of lint at the bottom of the crib which is then placed on the test rig and ignited within 2 minutes. For a pass to be recorded, all flaming should cease within 10 minutes.
5. How do you calculate fabric shrinkage?	Subtract the final size from the original size to find the amount of the shrinkage.
6. Differentiate between Abrasion and Pilling?	The resistance of fabric to friction force is known as abrasion resistance. Pilling is a fabric defect which is observed as small fiber balls or group consisting of intervened fibers that have been attached to the fabric surface by one or more fibers