

Assessment Evidence Guide

For

“Textile Wet Processing”

Level-5

Supervise Pre-treatment Processes

(Formative Assessment)



**National Vocational & Technical
Training Commission**

Instruction Sheet for the Candidate

Title of Qualification: National Vocational Certificate Level 5 in Textile Wet Processing (5 Supervisor)	CS Code:	Level: 05	Version: 01
Competency Standard Title: <ul style="list-style-type: none"> Supervise Pre-treatment Processes Practice Professionalism 	Assessment Date (DD/MM/YY): Assessment Time:		

Candidate Details	Name: Registration/Roll Number:.....
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):</p> <p>Assessment Task 1: Candidate is required to organise pre-treatment processes as per Specification Sheet/(PO) for assigned fabric and prepare final report of each process.</p> <p>Assessment Task 2: Candidate is required to perform tests on assigned fabric for pre-treatment processes before dyeing/printing process and also prepare Final Lab Test Report:</p> <p>And complete:</p> <ol style="list-style-type: none"> 1. Knowledge assessment test (Written or Oral) 2. Portfolios at the time of assessment (if any)
Minimum Evidence Required	<p>During a practical assessment, under observation by an assessor, you will complete:</p> <p>Assessment Task 1</p> <p>Performance Criteria 1: Interpret Specification Sheet/ Processing Order (PO)</p> <p>Performance Criteria 2: Organise fabric pre-treatment processes, including:</p> <ul style="list-style-type: none"> ○ Fabric Preparation ○ Loading/Unloading Fabric ○ Management of Chemical Recipes ○ De-Sizing ○ Singeing ○ Scouring ○ Bleaching

	<p>Performance Criteria 3: Monitor undergoing Pre-treatment processes on the production floor</p> <p>Performance Criteria 4: Prepare quality and production report after completing each pre-treatment process</p>
	<p>Assessment Task 2</p> <p>Performance Criteria 1: Calculate Fabric Weight (GSM/ (Oz/Yd²))</p> <p>Performance Criteria 2: Calculate Fabric Construction (Yarn Count, EPI, PPI, etc.)</p> <p>Performance Criteria 3: Perform test for Singeing (Pilling Test, Fabric Stiffness Test, etc.) as per set Standards</p> <p>Performance Criteria 4: Perform test for De-Sizing (De-Sizing Efficiency Test, Iodine Test, TEGEWA, etc.) as per set Standards</p> <p>Performance Criteria 5: Perform test for Scouring (Absorbency Test, etc.) as per set Standards</p> <p>Performance Criteria 6: Perform test for bleaching (CIE Index, 100 Tile Test, Yellowness Whiteness, Tear and Tensile Test, etc.) as per set Standards</p>

Assessors Judgment Guide

Candidate Details	Name:Registration/Roll Number: Candidate Signature:.....
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> 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 organise pre-treatment processes as per Specification Sheet/(PO) for assigned fabric and prepare final report of each process.			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Interpret Specification Sheet/ Processing Order (PO)			
2.	Organise fabric pre-treatment processes, including: <ul style="list-style-type: none"> ○ Fabric Preparation ○ Loading/Unloading Fabric ○ Management of Chemical Recipes ○ De-Sizing ○ Singeing ○ Scouring ○ Bleaching 			
3.	Monitor undergoing Pre-treatment processes on the production floor			
4.	Prepare quality and production report after completing each pre-treatment process			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 2	Description of Assessment Task2 Candidate is required to perform tests on assigned fabric for pre-treatment processes before dyeing/printing process and also prepare Final Lab Test Report:			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Calculate Fabric Weight (GSM/ (Oz/Yd2))			
2.	Calculate Fabric Construction (Yarn Count, EPI, PPI, etc.)			
3.	Perform test for Singeing (Pilling Test, Fabric Stiffness Test, etc.) as per set Standards			
4.	Perform test for De-Sizing (De-Sizing Efficiency Test, Iodine Test, TEGEWA, etc.) as per set Standards			
5.	Perform test for Scouring (Absorbency Test, etc.) as per set Standards			
6.	Perform test for bleaching (CIE Index, 100 Tile Test, Yellowness Whiteness, Tear and Tensile Test, etc.) as per set Standards			
7.	Prepare Final Lab Test Report as per Set Standards			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Evidence Guide
For
“Textile Wet Processing”
Level-5
Supervise Fabric Dyeing Processes
(Formative Assessment)



**National Vocational & Technical
Training Commission**

Instruction Sheet for the Candidate

Title of Qualification: National Vocational Certificate Level 5 in Textile Wet Processing (5 Supervisor)	CS Code:	Level: 05	Version: 01
Competency Standard Title: <ul style="list-style-type: none"> Supervise Fabric Dyeing Processes Practice Professionalism 	Assessment Date (DD/MM/YY): Assessment Time:		

Candidate Details	Name: Registration/Roll Number:
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):</p> <ol style="list-style-type: none"> 1. Assessment Task 1: Candidate is required to organise Dyeing processes as per Specification Sheet/(PO) for assigned fabric and prepare final report of each process. 2. Assessment Task 2: Candidate is required to perform laboratory tests on assigned dyed fabric, and also prepare Final Lab Test Report: <p>And complete:</p> <ol style="list-style-type: none"> 3. Knowledge assessment test (Written or Oral) 4. Portfolios at the time of assessment (if any)
Minimum Evidence Required	<p>During a practical assessment, under observation by an assessor, you will complete:</p> <p>Assessment Task 1</p> <p>Performance Criteria 1: Interpret Specification Sheet/Process Order (PO)</p> <p>Performance Criteria 2: Organise fabric Dyeing processes</p> <p>Performance Criteria 3: Monitor Dyeing processes as per requirement</p> <p>Performance Criteria 4: Prepare quality and production report after completing each Dyeing process</p>

Assessment Task 2

Performance Criteria 1: Calculate Fabric Weight (GSM/ (Oz/Yd²))

Performance Criteria 2: Perform Shade Matching (Visual/Data Colour)

Performance Criteria 3: Perform Change in Shade Test

Performance Criteria 4: Perform Colour Fastness Tests To:

- Crocking (Dry and Wet Rubbing)
- Washing
- Bleaching
- Light
- Perspiration

Performance Criteria 5: Prepare Final Lab Test Report as per Set Standards

Observation Checklist

Assessment Task 1	Description of Assessment Task 1 Candidate is required to organise Dyeing processes as per Specification Sheet/(PO) for assigned fabric and prepare final report of each process.		
During the practical assessment, candidate demonstrated the following:	Yes	No	Remarks
1. Interpret Specification Sheet/Process Order (PO)			
2. Organise fabric Dyeing processes			
3. Monitor Dyeing processes as per requirement			
4. Prepare quality and production report after completing each Dyeing process			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>	

Assessment Task 2	Description of Assessment Task 2 Candidate is required to perform laboratory tests on assigned dyed fabric, and also prepare Final Lab Test Report:		
During the practical assessment, candidate demonstrated the following:	Yes	No	Remarks
1. Calculate Fabric Weight (GSM/ (Oz/Yd ²))			
2. Perform Shade Matching (Visual/Data Colour)			
3. Perform Change in Shade Test			
4. Perform Colour Fastness Tests To: <ul style="list-style-type: none"> ○ Crocking (Dry and Wet Rubbing) ○ Washing ○ Bleaching ○ Light ○ Perspiration 			
5. Prepare Final Lab Test Report as per Set Standards			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>	

Knowledge Assessment

Title of Qualification: National Vocational Certificate Level 5 in Textile Wet Processing (5 Supervisor)	CS Code:	Level: 05	Version: 01
Competency Standard Title: <ul style="list-style-type: none"> Supervise Fabric Dyeing Processes Practice Professionalism 	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

Guidance for Candidate	To complete your assessment for this Competency Standard, you need to answer the questions on the following pages successfully.
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Candidate Details	Name: Registration/Roll Number: Candidate Signature:
Written Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> 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. What are the factors affecting Colour Fastness?	The type of dye, the particular shade used, the depth of the shade and the dyeing process
2. What is Gray Scale Rating?	Gray Scale for color change indicates the amount of fading or color alteration with environmental exposure or washing
3. What is Dry and Wet Crocking?	Wet or Dry Crocking is defined as the transfer of dye from the material surface onto another surface due to rubbing.
4. What is meant by colour fastness?	Colour fastness is defined as the resistance of a fabric to change in any of its colour characteristics and to the transfer of its colorant(s) to adjacent materials during end-use.
5. What is the purpose of Data Colour Spectrophotometer?	It is a color measurement device which enables manufactures to objectively measure and digitally communicate color measurements for the multi-colored, textured, small-sized and irregular-shaped materials.

Assessment Evidence Guide
For
“Textile Wet Processing”
Level-5
Supervise Fabric Printing Processes
(Formative Assessment)



**National Vocational & Technical
Training Commission**

Instruction Sheet for the Candidate

Title of Qualification: National Vocational Certificate Level 5 in Textile Wet Processing (5 Supervisor)	CS Code:	Level: 05	Version: 01
Competency Standard Title: <ul style="list-style-type: none"> Supervise Fabric Printing Processes Practice Professionalism 	Assessment Date (DD/MM/YY):		
	Assessment Time:		

Candidate Details	Name: Registration/Roll Number:.....
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):</p> <ol style="list-style-type: none"> 1. Assessment Task 1: Candidate is required to organise printing process as per Specification Sheet/(PO) for assigned fabric and prepare final report of printed fabric. 2. Assessment Task 2: Candidate is required to perform laboratory tests on assigned printed fabric, and also prepare Final Lab Test Report. <p>And complete:</p> <ol style="list-style-type: none"> 3. Knowledge assessment test (Written or Oral) 4. Portfolios at the time of assessment (if any)
Minimum Evidence Required	<p>During a practical assessment, under observation by an assessor, you will complete:</p> <p>Assessment Task 1</p> <p>Performance Criteria 1: Interpret Specification Sheet/Process Order (PO)</p> <p>Performance Criteria 2: Organise fabric Printing processes</p> <p>Performance Criteria 3: Monitor Printing processes as per requirement</p> <p>Performance Criteria 4: Prepare a Final Report of Printed Fabric</p>

Assessment Task 2

Performance Criteria 1: Calculate Fabric Weight (GSM/ (Oz/Yd²)

Performance Criteria 2: Perform Shade Matching (Visual/Data Colour)

Performance Criteria 3: Perform Change in Shade Test

Performance Criteria 4: Perform Colour Fastness Tests To:

- ✓ Crocking (Dry and Wet Rubbing)
- ✓ Washing
- ✓ Bleaching
- ✓ Light
- ✓ Perspiration

Performance Criteria 5: Prepare Final Lab Test Report as per Set Standards

Observation Checklist

Assessment Task 1	Description of Assessment Task 1 Candidate is required to organise printing process as per Specification Sheet/(PO) for assigned fabric and prepare final report of printed fabric.		
During the practical assessment, candidate demonstrated the following:	Yes	No	Remarks
1. Interpret Specification Sheet/Process Order (PO)			
2. Organise fabric Printing processes			
3. Monitor Printing processes as per requirement			
4. Prepare a Final Report of Printed Fabric			
Competent <input type="checkbox"/>	Not Yet Competent <input type="checkbox"/>		

Assessment Task 2	Description of Assessment Task 2 Candidate is required to perform laboratory tests on assigned printed fabric, and also prepare Final Lab Test Report.		
During the practical assessment, candidate demonstrated the following:	Yes	No	Remarks
1. Calculate Fabric Weight (GSM/ (Oz/Yd ²))			
2. Perform Shade Matching (Visual/Data Colour)			
3. Perform Change in Shade Test			
4. Perform Colour Fastness Tests To: <ul style="list-style-type: none"> ○ Crocking (Dry and Wet Rubbing) ○ Washing ○ Bleaching ○ Light ○ Perspiration 			
5. Prepare Final Lab Test Report as per Set Standards			
Competent <input type="checkbox"/>	Not Yet Competent <input type="checkbox"/>		

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)

5. How do you perform wet Crocking?

To test for wet crocking the standard fabric is wet before rubbing against the test fabric. After rubbing under controlled pressure for a specific number of times the amount of color transferred to the white test squares is compared to an AATCC color chart and a rating is established.

Assessment Evidence Guide
For
“Textile Wet Processing”
Level-5
Supervise Fabric Finishing Processes
(Formative Assessment)



**National Vocational & Technical
Training Commission**

Instruction Sheet for the Candidate

Title of Qualification: National Vocational Certificate Level 5 in Textile Wet Processing (5 Supervisor)	CS Code:	Level: 05	Version: 01
Competency Standard Title: <ul style="list-style-type: none"> Supervise Fabric Finishing Processes Practice Professionalism 	Assessment Date (DD/MM/YY): Assessment Time:		

Candidate Details	Name: Registration/Roll Number:
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):</p> <ol style="list-style-type: none"> 1. Assessment Task 1: Candidate is required to organise finishing process as per Specification Sheet/(PO) for assigned fabric and prepare final report of finished fabric. 2. Assessment Task 2: Candidate is required to perform following laboratory tests on assigned finished fabric, and also prepare Final Lab Test Report: <p>And complete:</p> <ol style="list-style-type: none"> 3. Knowledge assessment test (Written or Oral) 4. Portfolios at the time of assessment (if any)
Minimum Evidence Required	<p>During a practical assessment, under observation by an assessor, you will complete:</p> <p>Assessment Task 1</p> <p>Performance Criteria 1: Interpret Specification Sheet/Process Order (PO)</p> <p>Performance Criteria 2: Organise fabric Finishing processes</p> <p>Performance Criteria 3: Monitor Finishing processes as per requirement</p> <p>Performance Criteria 4: Prepare a Final Report of Finished Fabric</p>

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 Whiteness/Absorbency Test for White Fabric

Performance Criteria 5: Perform Change in Skew Test

Performance Criteria 6: Perform Tear and Tensile Test

Performance Criteria 7: Perform Crease Resistant Test

Performance Criteria 8: Perform Bending Length Test

Performance Criteria 9: Perform Anti-Cracking Test

Performance Criteria 10: Perform Shrinkage Test

Performance Criteria 11: Perform Abrasion Test

Performance Criteria 12: Perform Pilling Test

Performance Criteria 13: Perform Spray Rating Test

Performance Criteria 14: Perform Flame Retardant Test

Performance Criteria 15: Perform Air Permeability Test

Performance Criteria 16: Perform Stretchability Test

Performance Criteria 17: Perform Barium Activity Number Test

Performance Criteria 18: Prepare Final Lab Test Report as per Set Standards

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 <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> 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

Assessment Task 1	Description of Assessment Task 1 Candidate is required to organise finishing process as per Specification Sheet/(PO) for assigned fabric and prepare final report of finished fabric.		
During the practical assessment, candidate demonstrated the following:	Yes	No	Remarks
1. Interpret Specification Sheet/Process Order (PO)			
2. Organise fabric Finishing processes			
3. Monitor Finishing processes as per requirement			
4. Prepare a Final Report of Finished Fabric			
Competent <input type="checkbox"/>	Not Yet Competent <input type="checkbox"/>		

Assessment Task 2	Description of Assessment Task 2 Candidate is required to perform following laboratory tests on assigned finished fabric, and also prepare Final Lab Test Report:		
During the practical assessment, candidate demonstrated the following:	Yes	No	Remarks
1. Calculate Fabric Weight (GSM/ (Oz/Yd2)			
2. Check fabric Width			
3. Perform Skeness and Bowing Test			
4. Perform Whiteness/Absorbency Test for White Fabric			
5. Perform Change in Skew Test			
6. Perform Tear and Tensile Test			
7. Perform Crease Resistant Test			
8. Perform Bending Length Test			
9. Perform Anti-Cracking Test			
10. Perform Shrinkage Test			
11. Perform Abrasion Test			
12. Perform Pilling Test			
13. Perform Spray Rating Test			
14. Perform Flame Retardant Test			
15. Perform Air Permeability Test			
16. Perform Stretchability Test			
17. Perform Barium Activity Number Test			
18. Prepare Final Lab Test Report as per Set Standards			
Competent <input type="checkbox"/>	Not Yet Competent <input type="checkbox"/>		

Assessment Evidence Guide

For

“Textile Wet Processing”

Level-5

(Summative Assessment-1)



**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: <ul style="list-style-type: none"> 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	<p>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):</p> <p style="text-align: center;">Assessment Task 1: Candidate is required to perform Laboratory Tests on assigned dyed fabric, including following:</p> <ul style="list-style-type: none"> ✓ Match the Shades (Visual/Data Colour) ✓ Change in Shade Test ✓ Colour Fastness <p>And also Prepare Final Lab Test Report using MS Excel.</p> <p>And complete:</p> <ol style="list-style-type: none"> 1. Knowledge assessment test (Written or Oral) 2. Portfolios at the time of assessment (if any)

Minimum Evidence Required	<p>During a practical assessment, under observation by an assessor, you will complete:</p> <p>Assessment Task 1</p> <p>Performance Criteria 1: Perform Shade Matching (Visual/Data Colour)</p> <p>Performance Criteria 2: Perform Change in Shade Test</p> <p>Performance Criteria 3: Perform Colour Fastness Tests to:</p> <ul style="list-style-type: none">✓ Crocking (Dry and Wet Rubbing)✓ Washing✓ Bleaching✓ Light✓ Perspiration <p>Performance Criteria 4: Prepare Final Lab Test Report as per Set Standards</p>
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Observation Checklist

Each Assessment Task (with performance criteria)			
Assessment Task 1	Description of Assessment Task 1 Candidate is required to perform Laboratory Tests on assigned dyed fabric, including following: <input type="checkbox"/> Match the Shades (Visual/Data Colour) <input type="checkbox"/> Change in Shade Test <input type="checkbox"/> Colour Fastness And also Prepare Final Lab Test Report using MS Excel.		
During the practical assessment, candidate demonstrated the following:		Yes	No
1.	Perform Shade Matching (Visual/Data Colour)		
2.	Perform Change in Shade Test		
3.	Perform Colour Fastness Tests to: <ul style="list-style-type: none"> ○ Crocking (Dry and Wet Rubbing) ○ Washing ○ Bleaching ○ Light ○ Perspiration 		
4.	Prepare Final Lab Test Report as per Set Standards		
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>	

Portfolio		Description of Portfolio							
		Candidate is required to present a portfolio including:							
Current	<input type="checkbox"/>	Sufficient	<input type="checkbox"/>	Authentic	<input type="checkbox"/>	Valid	<input type="checkbox"/>	Reliable	<input type="checkbox"/>
Portfolio meet the following performance standards:		Yes	No	Remarks					
1.	File/folder of Supervise Fabric Pre-treatment Processes								
2.	File/folder of Supervise Fabric Dyeing Processes								
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>							