

Assessment Evidence Guide

For

“Textile Wet Processing”

Level-2

**Perform Fabric Pre-treatments for Wet Processing (Formative
Assessment)**



**National Vocational & Technical
Training Commission**

Instruction Sheet for the Candidate

Title of Qualification: National Vocational Certificate Level 2 in Textile Wet Processing (Operator)	CS Code:	Level: 02	Version: 01
Competency Standard Title: <ul style="list-style-type: none"> Perform Fabric Pre-treatments for Wet Processing Maintain Personal Health hygiene & Safety Manage Waste Materials at Workplace Perform Basic Communication Skills 	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 prepare assigned fabric for Wet processing task as per given instructions. 2. Assessment Task 2: Candidate is required to perform following pre-treatment tasks for the fabric, assigned by assessor: <ul style="list-style-type: none"> o Singeing o De-Sizing o Scouring o Bleaching o Mercerizing <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/Processing Order (PO) to follow preparation parameters.</p> <p>Performance Criteria 2: Arrange material (Fabric, Chemicals, Batchers Trolley, etc.) as per Specification Sheet/Processing Order (PO).</p> <p>Performance Criteria 3: Verify material and machine parameters according to Specification Sheet/Processing Order (PO).</p>

	<p>Performance Criteria 4: Verify Job Card/Travel Card</p> <p>Performance Criteria 5: Maintain Lot Register/Record</p>
	<p>Assessment Task 2</p> <p>Performance Criteria 1: Load Fabric on required Machine</p> <p>Performance Criteria 2: Add Recipe to required Machine</p> <p>Performance Criteria 3: Manage Trollies/Batchers</p> <p>Performance Criteria 4: Interpret Specification Sheet/Processing Order (PO)</p> <p>Performance Criteria 5: Set Singeing machine parameters as per Singeing process requirement/Specification Sheet/Processing Order (PO)</p> <p>Performance Criteria 6: Operate Plate/Flame Singeing Machine</p> <p>Performance Criteria 7: Maintain Production Register for Singed Fabric</p> <p>Performance Criteria 8: Set De-Sizing machine parameters as per De-Sizing process requirement/Specification Sheet/Processing Order (PO)</p> <p>Performance Criteria 9: Operate De-Sizing machine</p> <p>Performance Criteria 10: Maintain Production Register for De-Sized fabric</p> <p>Performance Criteria 11: Set Scouring machine parameters as per Scouring process requirement/Specification Sheet/Processing Order (PO)</p> <p>Performance Criteria 12: Operate Scouring Machine to perform scouring as per Specification Sheet/Processing Order (PO)</p> <p>Performance Criteria 13: Remove the liquor at required temperature</p> <p>Performance Criteria 14: Neutralize the fabric</p> <p>Performance Criteria 15: Set Bleaching machine parameters as per Bleaching process requirement/Specification Sheet/Processing Order (PO)</p> <p>Performance Criteria 16: Operate Bleaching Machine to perform bleaching as per Specification Sheet/Processing Order (PO)</p> <p>Performance Criteria 17: Maintain quality parameters during process according to protocol</p> <p>Performance Criteria 18: Unload fabric after completion the job</p> <p>Performance Criteria 19: Maintain Production Register for Bleached Fabric</p>
	<p>Portfolios required at the time of assessment (if any) for</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

Assessment Task 1	Description of Assessment Task 1 Candidate is required to prepare assigned fabric for Wet processing task as per given instructions.		
During the practical assessment, candidate demonstrated the following:	Yes	No	Remarks
1. Interpret Specification Sheet/Processing Order (PO) to follow preparation parameters.			
2. Arrange material (Fabric, Chemicals, Batch Trolley, etc.) as per Specification Sheet/Processing Order (PO).			
3. Verify material and machine parameters according to Specification Sheet/Processing Order (PO)			
4. Verify Job Card/Travel Card			
5. Maintain Lot Register/Record			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>	
Each Assessment Task (with performance criteria)			

Assessment Task 2		Description of Assessment Task2		
		Candidate is required to perform following pre-treatment tasks for the fabric, assigned by assessor: <ul style="list-style-type: none"> ○ Singeing ○ De-Sizing ○ Scouring ○ Bleaching ○ Mercerizing 		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Load Fabric on required Machine			
2.	Add Recipe to required Machine			
3.	Manage Trollies/Batchers			
4.	Interpret Specification Sheet/Processing Order (PO)			
5.	Set Singeing machine parameters as per Singeing process requirement/Specification Sheet/Processing Order (PO)			
6.	Operate Plate/Flame Singeing Machine			
7.	Maintain Production Register for Singed Fabric			
8.	Set De-Sizing machine parameters as per De-Sizing process requirement/Specification Sheet/Processing Order (PO)			
9.	Operate De-Sizing machine			
10.	Performance Criteria 10: Maintain Production Register for De-Sized fabric			
11.	Set Scouring machine parameters as per Scouring process requirement/Specification Sheet/Processing Order (PO)			
12.	Operate Scouring Machine to perform scouring as per Specification Sheet/Processing Order (PO)			
13.	Remove the liquor at required temperature			
14.	Neutralize the fabric			
15.	Set Bleaching machine parameters as per Bleaching process requirement/Specification Sheet/Processing Order (PO)			
16.	Operate Bleaching Machine to perform bleaching as per Specification Sheet/Processing Order (PO)			
17.	Maintain quality parameters during process according to protocol			
18.	Unload fabric after completion the job			
19.	Maintain Production Register for Bleached Fabric			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Title of Qualification: National Vocational Certificate Level 2 in Textile Wet Processing (Operator)	CS Code:	Level: 02	Version: 01
Competency Standard Title: <ul style="list-style-type: none"> • Perform Fabric Pre-treatments for Wet Processing • Maintain Personal Health hygiene & Safety • Manage Waste Materials at Workplace • Perform Basic Communication Skills 	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. Describe the steps in preparation of Wet Processing (any three)	<ul style="list-style-type: none"> • Prepare and clean the workplace • Arrange material • Verify job card • Maintain the register
2. What is De-sizing?	De-sizing is the process of removing the size material from warp yarn after textile fabric is woven
3. Describe the singeing?	Singeing is the process to remove protruding fibers from the surface of fabric before printing and dyeing.

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

4. What is the purpose of scouring?	Scouring removes soluble and insoluble impurities found in textiles as natural, added and adventitious impurities, for example, oils, waxes, fats, vegetable matter, as well as dirt.
5. What is the use of Bleaching?	The bleaching process is used to produce white cloth, to prepare fabrics for other finishes, or to remove discoloration that has occurred in other processes.

Assessment Evidence Guide

For

“Textile Wet Processing”

Level-2

Perform Basic Printing

(Formative Assessment)



National Vocational & Technical

Training Commission

Instruction Sheet for the Candidate

Title of Qualification: National Vocational Certificate Level 2 in Textile Wet Processing (Operator)	CS Code:	Level: 02	Version: 01
Competency Standard Title: <ul style="list-style-type: none"> Perform Basic Printing Maintain Personal Health hygiene & Safety Manage Waste Materials at Workplace Perform Basic Communication Skills 	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 prepare different Colour Wheels as per instructions, given by assessor. 2. Assessment Task 2: Candidate is required to prepare lab dips for the Primary Colour, assigned by assessor. 3. Assessment Task 3: Candidate is required to print a design on assigned fabric, including following tasks: <ul style="list-style-type: none"> ○ Engraving of Screen as per provided design negative ○ Performing Table screen printing by developing colour scheme as per given instructions <p>And complete:</p> <ol style="list-style-type: none"> 4. Knowledge assessment test (Written or Oral) 5. 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: Develop Colour Wheel, including</p> <ul style="list-style-type: none"> ○ Primary Colours ○ Secondary Colours ○ Tertiary Colours ○ Complementary Colours ○ Split Complementary Colours ○ Triadic Colours ○ Tetradic Colours ○ Analogous Colours ○ Neutral Colours ○ Monochromatic Colours ○ Tints and shades ○ Warm Colours ○ Cool Colours <p>Performance Criteria 2: Develop Colour Schemes/Combinations</p>
	<p>Assessment Task 2</p> <p>Performance Criteria 1: Arrange material, tools and equipment to prepare basic colour recipes</p> <p>Performance Criteria 2: Mix primary colours/dyes to prepare dilute solution as per Formula</p> <p>Performance Criteria 3: Dip swatches in solution for colour recognition</p> <p>Performance Criteria 4: Maintain temperature/chemicals as per requirement</p> <p>Performance Criteria 5: Wash the fabric and verify colour as per requirement</p>

Assessment Task 3

Performance Criteria 1: Arrange material, tools and equipment to prepare basic Screen

Performance Criteria 2: Select Screen Mesh as per design requirement

Performance Criteria 3: Mount the Screen on frame

Performance Criteria 4: Block the part in Negative image

Performance Criteria 5: Apply Emulsion

Performance Criteria 6: Expose the screen in Light

Performance Criteria 7: Wash and dry the screen

Performance Criteria 8: Prepare workstation for Table Screen Printing

Performance Criteria 9: Interpret Specification Sheet/Processing Order (PO) for Table Screen Printing

Performance Criteria 10: Arrange material for Table Screen Printing as per Specification Sheet/Processing Order (PO)

Performance Criteria 11: Set sequence of colour according to design

Performance Criteria 12: Apply printing paste according to design from colour kitchen

Performance Criteria 13: Perform manual Table Screen Printing as per design nature

Performance Criteria 14: Dry printed material as per SOPs.

Performance Criteria 15: Perform fixation process on material according to nature of colorant and fabric

Performance Criteria 16: Maintain quality parameters during process according to protocol

Performance Criteria 17: Maintain Production Register for Table Screen Printing

Observation Checklist

Assessment Task 1		Description of Assessment Task 1		
		Candidate is required to prepare a different Colour Wheels as per instructions, given by assessor.		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Develop Colour Wheel, including <ul style="list-style-type: none"> ○ Primary Colours ○ Secondary Colours ○ Tertiary Colours ○ Complementary Colours ○ Split Complementary Colours ○ Triadic Colours ○ Tetradic Colours ○ Analogous Colours ○ Neutral Colours ○ Monochromatic Colours ○ Tints and shades ○ Warm Colours ○ Cool Colours 			
2.	Develop Colour Schemes/Combinations			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 2		Description of Assessment Task 2		
		Candidate is required to prepare a lab dips for the Primary Colour, assigned by assessor.		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Arrange material, tools and equipment to prepare basic colour recipes			
2.	Mix primary colours/dyes to prepare dilute solution as per Formula			
3.	Dip swatches in solution for colour recognition			
4.	Maintain temperature/chemicals as per requirement			
5.	Wash the fabric and verify colour as per requirement			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 3		Description of Assessment Task 3 Candidate is required to print a design on assigned fabric, including following tasks: <ul style="list-style-type: none"> ○ Engraving of Screen as per provided design negative ○ Performing Table screen printing by developing colour scheme as per given instructions 		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Arrange material, tools and equipment to prepare basic Screen			
2.	Select Screen Mesh as per design requirement			
3.	Mount the Screen on frame			
4.	Block the part in Negative image			
5.	Apply Emulsion			
6.	Expose the screen in Light			
7.	Wash and dry the screen			
8.	Prepare workstation for Table Screen Printing			
9.	Interpret Specification Sheet/Processing Order (PO) for Table Screen Printing			
10.	Arrange material for Table Screen Printing as per Specification Sheet/Processing Order (PO)			
11.	Set sequence of colour according to design			
12.	Apply printing paste according to design from colour kitchen			
13.	Perform manual Table Screen Printing as per design nature			
14.	Dry printed material as per SOPs.			
15.	Perform fixation process on material according to nature of colorant and fabric			
16.	Maintain quality parameters during process according to protocol			
17.	Maintain Production Register for Table Screen Printing			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Title of Qualification: National Vocational Certificate Level 2 in Textile Wet Processing (Operator)	CS Code:	Level: 02	Version: 01
Competency Standard Title: <ul style="list-style-type: none"> Perform Basic Printing Maintain Personal Health hygiene & Safety Manage Waste Materials at Workplace Perform Basic Communication Skills 	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 is the difference between tints and shades?	A tint is a mixture of a colour with white, which increases lightness, while a shade is a mixture with black, which increases darkness.
2. Explain Warm and Cool Colours	Warm colors are made up of colors such as reds, oranges and yellows. While cool colors consist of blue, purple and greens and the shades off of those that are cooler in color temperature.
3. What is the use of Squeegee?	It is a tool with a flat, smooth rubber blade, used to remove or control the flow of liquid on a flat surface.
4. What is difference between screen and mesh?	Mesh is a structure made of connected strands of metal, fiber, or other flexible material, with evenly spaced openings between them while screen is a physical divider intended to block an area from view.
5. What is the importance of fixation in screen printing process?	Fixation is like how much dye is fixed onto the fabric after considering all the washes.

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

6. Enlist any five Verbal communication techniques?	<ul style="list-style-type: none">○ Active listening.○ Asking for clarification.○ Asking open-ended questions to gain insights.○ Recognizing and responding to non-verbal cues.○ Speaking clearly and concisely.
7. Enlist non-verbal communication techniques?	<ul style="list-style-type: none">○ Body movement and posture○ Gestures○ Eye contact○ Touch○ Space○ Voice

