

Assessment Evidence Guide

For

“Textile Wet Processing”

Level-3

(Summative Assessment)



**National Vocational & Technical
Training Commission**

Instruction Sheet for the Candidate

Title of Qualification: National Vocational Certificate Level 3 in Textile Wet Processing (Operator)	CS Code:	Level: 03	Version: 01
Competency Standard Title: <ul style="list-style-type: none"> Identify and implement Workplace Policies and Procedures Apply work health and safety practices (WHS) Communicate at workplace Perform Basic Computer Application Skills Perform Industrial Fabric Dyeing Perform Industrial Fabric Printing 	Assessment Date (DD/MM/YY): Assessment Time : 5hrs		

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 perform Jigger dyeing of fabric, assigned by assessor.</p> <p>Assessment Task 3: Candidate is required to prepare screens from design file and print a design on fabric, using Rotary machine as per requirement.</p> <p>And complete:</p> <ol style="list-style-type: none"> Knowledge assessment test (Written or Oral) 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) for Jigger Dyeing</p> <p>Performance Criteria 2: Arrange material for Jigger dyeing process as per program sheet</p> <p>Performance Criteria 3: Load fabric on the Jigger Dyeing machine</p> <p>Performance Criteria 4: Set Jigger Dyeing machine parameters as per Jigger Dyeing process requirement/Specification Sheet/Processing Order (PO)</p> <p>Performance Criteria 5: Operate Jigger dyeing machine for fabric dyeing</p> <p>Performance Criteria 6 Maintain quality parameters during process according to program sheet/protocol</p> <p>Performance Criteria 7: Wash & Neutralize dyed fabric as per program sheet</p> <p>Performance Criteria 8: Maintain Record for Jigger Dyeing</p>
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	<p>Assessment Task 2</p> <p>Performance Criteria 1: Interpret Specification Sheet/Processing Order (PO) to Engrave for rotary screen printing</p> <p>Performance Criteria 2: Select Length, Repeat and mesh size of screen according to design</p> <p>Performance Criteria 3: Perform rounding of screen</p> <p>Performance Criteria 4: Perform chemical coating on screen</p> <p>Performance Criteria 5: Dry chemical coating screen</p> <p>Performance Criteria 6: Perform design exposing</p> <p>Performance Criteria 7: Perform curing / washing on screen</p> <p>Performance Criteria 8: Fix Rotary Screen Endrings</p> <p>Performance Criteria 9: Perform stripping by mechanical and chemical process</p> <p>Performance Criteria 10: Load fabric on the Rotary Printing machine</p> <p>Performance Criteria 11: Set Rotary Printing machine parameters as per Rotary Printing process requirement/Specification Sheet/Processing Order (PO)</p> <p>Performance Criteria 12: Operate Rotary Printing Machine</p> <p>Performance Criteria 13: Perform fixation process on material according to nature of dye class</p> <p>Performance Criteria 14: Maintain quality parameters during process according to protocol.</p> <p>Performance Criteria 15: Unload the fabric from machine</p>
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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 perform Jigger dyeing of fabric, assigned by assessor.		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Interpret Specification Sheet/Processing Order (PO) for Jigger Dyeing			
2.	Arrange material for Jigger dyeing process as per program sheet			
3.	Load fabric on the Jigger Dyeing machine			
4.	Set Jigger Dyeing machine parameters as per Jigger Dyeing process requirement/Specification Sheet/Processing Order (PO)			
5.	Operate Jigger dyeing machine for fabric dyeing			
6.	Maintain quality parameters during process according to program sheet/protocol			
7.	Wash & Neutralize dyed fabric as per program sheet			
8.	Maintain Record for Jigger Dyeing			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 2		Description of Assessment Task 2		
		Candidate is required to prepare screens from design file and print a design on fabric, using Rotary machine as per requirement.		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Interpret Specification Sheet/Processing Order (PO) to Engrave for rotary screen printing			
2.	Select Length, Repeat and mesh size of screen according to design			
3.	Perform rounding of screen			
4.	Perform chemical coating on screen			
5.	Dry chemical coating screen			
6.	Perform design exposing			
7.	Perform curing / washing on screen			
8.	Fix Rotary Screen Endrings			
9.	Perform stripping by mechanical and chemical process			
10.	Load fabric on the Rotary Printing machine			
11.	Set Rotary Printing machine parameters as per Rotary Printing process requirement/Specification Sheet/Processing Order (PO)			
12.	Operate Rotary Printing Machine			
13.	Perform fixation process on material according to nature of dye class			
14.	Maintain quality parameters during process according to protocol.			
15.	Unload the fabric from machine			
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 Perform Industrial Fabric Dyeing			
1.	File/folder of Perform Advance Fabric Printing			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Title of Qualification: National Vocational Certificate Level 3 in Textile Web Processing (Operator)	CS Code:	Level: 03	Version: 01
Competency Standard Title:	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 Rotary and Flatbed printing?	Flat Screen Printing Technology the screen is flat and moves up and down. Besides, the Rotary screen is round in size and it rotates
2. What is curing process in textile?	Curing is the dry heating process in which heat is given to the pigment printed fabric to fix it's color. The required temperature for this process is ranges from 150-180 c.
1. Write types of dyeing machines	Fiber dyeing machine, Yarn dyeing machine, Fabric dyeing machine, Garment dyeing machine
2. How to determine the liquor ratio for dyeing?	The liquor ratio in an exhaust dyebath is the ratio of the weight of the dry material being dyed to the water weight of the dyebath.

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)	
3. What is the pH of Dye?	The values range from 0-14. 7 means neutral, below 7 means more acidic, and above 7 means more alkaline.
4. What are the types of Fabric Dyes?	<ul style="list-style-type: none"> ○ Reactive Dyes ○ Direct Dyes ○ Acid Dyes ○ All-Purpose Dyes ○ Natural Dyes ○ VAT Dyes ○ Disperse Dyes ○ Azoic Dyes
5. Write names of any 5 types of fabric dyeing machines	<ol style="list-style-type: none"> 1. Jigger dyeing machine 2. Pad or padding mangle dyeing machine 3. Jet dyeing machine 4. High temperature winch dyeing machine 5. Winch dyeing machine
6. What is the difference between Dye and pigment?	Dyes are soluble in the host material—typically water and Pigments are insoluble in the host material
7. Write types of dyeing machines	Fiber dyeing machine, Yarn dyeing machine, Fabric dyeing machine, Garment dyeing machine