

# **Assessment Evidence Guide**

## **For**

# **“Textile Wet Processing”**

### **Level-4**

**(Summative Assessment-2)**



**National Vocational & Technical  
Training Commission**

## Instruction Sheet for the Candidate

<b>Title of Qualification:</b> National Vocational Certificate Level 4 in Textile Wet Processing (Assistant Supervisor)	<b>CS Code:</b>	<b>Level:</b> 04	<b>Version:</b> 01
<b>Competency Standard Title:</b> <ul style="list-style-type: none"> <li>Establish and maintain the occupational Health and safety system</li> <li>Perform Advance communication</li> <li>Analyse Workplace Policies and Procedures</li> <li>Implement the Design</li> <li>Perform Advance Fabric Printing</li> </ul>	<b>Assessment Date (DD/MM/YY):</b>  <b>Assessment Time :</b> 30 min		

Candidate Details	Name: .....  Registration/Roll Number: .....
Guidance for Candidate	<p><b>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration &amp; assessment):</b></p> <p><b>Assessment Task 1:</b> Candidate is required to evaluate design and prepare Strike-Off as per Design File, given by assessor. Also take corrective measures to maintain quality parameters as per standards</p> <p><b>Assessment Task 2:</b> Candidate is required to print assigned fabric, by using Digital Printing Machine</p> <p><b>And complete:</b></p> <ol style="list-style-type: none"> <li><b>Knowledge assessment test (Written or Oral)</b></li> <li><b>Portfolios at the time of assessment (if any)</b></li> </ol>

Minimum Evidence Required	<p><b>During a practical assessment, under observation by an assessor, you will complete:</b></p> <p><b>Assessment Task 1</b></p> <p><b>Performance Criteria 1:</b> Verify design parameters as per requirement</p> <p><b>Performance Criteria 2:</b> Execute required design to produce screens for fabric printing</p> <p><b>Performance Criteria 3:</b> Manage quality parameters during designing according to Specification Sheet/Processing Order (PO)</p> <p><b>Performance Criteria 4:</b> Verify design accuracy with standard design</p> <p><b>Performance Criteria 5:</b> Match shade of Strike-Off as per standard Design File and make corrections if required</p> <p><b>Performance Criteria 6:</b> Take corrective actions for any issues concerned with quality of design according to requirement.</p>
	<p><b>Assessment Task 2</b></p> <p><b>Performance Criteria 1:</b> Interpret of Specification Sheet/Processing Order (PO) for Digital Printing</p> <p><b>Performance Criteria 2:</b> Arrange material for Digital Printing process as per Specification Sheet/Processing Order (PO)</p> <p><b>Performance Criteria 3:</b> Operate Digital Printing machine</p> <p><b>Performance Criteria 4:</b> Maintain quality parameters during process according to Specification Sheet/Processing Order (PO) /protocol</p> <p><b>Performance Criteria 5:</b> Maintain Record for Printed Fabric</p>

## Assessors Judgment Guide

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

<b>Candidate Details</b>	Name: ..... Registration/Roll Number: ..... Candidate Signature: .....
<b>Assessment Outcome</b>	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)				
<b>Assessment Task 1</b>		<b>Description of Assessment Task 1</b>  Candidate is required to evaluate design and prepare Strike-Off as per Design File, given by assessor. Also take corrective measures to maintain quality parameters as per standards		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Verify design parameters as per requirement			
2.	Execute required design to produce screens for fabric printing			
3.	Manage quality parameters during designing according to Specification Sheet/Processing Order (PO)			
4.	Verify design accuracy with standard design			
5.	Match shade of Strike-Off as per standard Design File and make corrections if required			
6.	Take corrective actions for any issues concerned with quality of design according to requirement.			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

<b>Assessment Task 2</b>		<b>Description of Assessment Task 2</b>		
		Candidate is required to print assigned fabric, by using Digital Printing Machine		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Interpret of Specification Sheet/Processing Order (PO) for Digital Printing			
2.	Arrange material for Digital Printing process as per Specification Sheet/Processing Order (PO)			
3.	Operate Digital Printing machine			
4.	Maintain quality parameters during process according to Specification Sheet/Processing Order (PO) /protocol			
5.	Maintain Record for Printed Fabric			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

<b>Portfolio</b>		<b>Description of Portfolio</b>		
		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 Implement the Design			
2.	File/folder of Perform Advance Fabric Printing			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

## Knowledge Assessment

<b>Title of Qualification:</b> National Vocational Certificate Level 4 in Textile Wet Processing (Assistant Supervisor)	<b>CS Code:</b>	<b>Level:</b> 04	<b>Version:</b> 01
<b>Competency Standard Title:</b> <ul style="list-style-type: none"> <li>Establish and maintain the occupational Health and safety system</li> <li>Perform Advance communication</li> <li>Analyse Workplace Policies and Procedures</li> <li>Perform Advance Dyeing Techniques</li> <li>Implement the Design</li> <li>Perform Advance Fabric Printing</li> <li>Perform Finishing Processes</li> </ul>	<b>Assessment Date (DD/MM/YY):</b>  <b>Assessment Time :</b> 30 min		

<b>Guidance for Candidate</b>	<b>To complete your assessment for this Competency Standard, you need to answer the questions on the following pages successfully.</b>
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<b>Candidate Details</b>	Name: ..... Registration/Roll Number: ..... Candidate Signature: .....
<b>Written Assessment Outcome</b>	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)

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<b>1.</b> Which type of fiber is used for Pad Thermosol method?	The Thermosol method is popular for dyeing the polyester component in cotton/polyester fabrics.
<b>2.</b> Which type of fiber is used for Pad Steam Dyeing?	Pad steam is an ideal machine for reactive dyeing of cotton and its blended fabrics. Light, pale and medium shades can be dyed in this machine
<b>3.</b> What types of dyes are used for dyeing?	<p>Fiber Reactive Dyes. Fiber Reactive Dyes.</p> <p>Direct Dyes. Direct Dyes.</p> <p>Acid Dyes. Acid Dyes</p> <p>All-Purpose Dyes. All-Purpose Dyes.</p> <p>Natural Dyes. Natural Dyes.</p> <p>VAT Dyes. VAT Dyes.</p> <p>Disperse Dyes. Disperse Dyes.</p> <p>Azoic Dyes. Azoic Dyes.</p>
<b>4.</b> Write any 2 advantages of Soft Flow Dyeing	<p><b>1.</b> It minimizes creasing as the fabric is not held in any one configuration for very long. The lower liquor ration allows shorter dye cycles and saves chemicals and energy.</p> <p><b>2.</b> In soft flow dyeing machines the fabric is transported by a stream of dye liquor.</p>
<b>5.</b> Explain Pad Steam Dyeing process.	Pad-Steam dyeing is a process of continuous dyeing in which the fabric in open width is padded with dyestuff and is then steamed.
<b>1.</b> Write main types of Repeat Patterns.	<p><b>1.</b> Block Repeat (Rectilinear Repeats)</p> <p><b>2.</b> Offset Repeat. Brick/Half Brick (Staggered Horizontal Repeat) Drop/Half Drop (Staggered Vertical Repeat)</p> <p><b>3.</b> Mirror Repeat.</p> <p><b>4.</b> Diamond Repeat.</p>
<b>2.</b> What is Fabric Strike-Off ?	A strike-off is a digital fabric printing sample that allows you to test artworks, colours and fabric choices before proceeding with anything final.
<b>3.</b> What is the difference between design and pattern?	A pattern is a recognized sequence. Design is the conscious control of, or the manipulative arrangements of patterns for a desired outcome or result.

<b>Questions</b> (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)	
<b>4.</b> What is the difference between Full Drop and Half Drop Repeat?	Full drop repeats can sometimes be very obvious, especially when using large or bold design elements. A half drop repeat helps conceal the repeat in the finished product.
<b>5.</b> Write at least 7-8 faults in screen printing	<ol style="list-style-type: none"> <li><b>1.</b> Choking of screens.</li> <li><b>2.</b> Misfitting of the design.</li> <li><b>3.</b> Stains.</li> <li><b>4.</b> Conveyor stain.</li> <li><b>5.</b> Blanket stain.</li> <li><b>6.</b> Misprint or no print on selvedge.</li> <li><b>7.</b> Design not washed out properly.</li> <li><b>8.</b> Slippage on the cloth.</li> </ol>
<b>6.</b> What is the difference between Sublimation and Digital Printing?	Digital prints are printed on the surface of the material, whereas dye sublimation is infused into the material.
<b>7.</b> What is digital printing technology?	Digital printing is the process of printing digital-based images directly onto a variety of media substrates.
<b>8.</b> What are the advantages and disadvantages of sublimation process?	It doesn't permit liquids to drain onto floors, cause stains, or get into sewage systems. It has the disadvantage of making the substance harder to work with.
<b>9.</b> What materials does sublimation work on?	Polyester, polymer or polymer coated item, materials such 100% cotton are not suitable as the natural fibers have no pores to open to accept the image.
<b>10.</b> What are two important parts of digital printing?	The two most common digital printing methods in use today are Electrophotographic (toner based) and inkjet (ink based).
<b>11.</b> How does Sublimation Printer works?	The inks that are used turn into gas when brought under heat, then combine with the fabric and permanently print onto the fabric.
<b>12.</b> What is the difference between Sublimation and Digital Printing?	Digital prints are printed on the surface of the material, whereas dye sublimation is infused into the material.
<b>13.</b> What is digital printing technology?	Digital printing is the process of printing digital-based images directly onto a variety of media substrates.