



## Pirn Winding Machine Operator

- Short Term Training (STT)  Long Term Training (LTT)  Apprenticeship  
 Upskilling  Dual/Flexi Qualification  For ToT  For ToA  
 General  Multi-skill (MS)  Cross Sectoral (CS)  Future Skills  OEM

NCrF/NSQF Level: 2

Submitted By:

Textile Sector Skill Council

Contact Details:

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## Section 1: Basic Details

1.	<b>Qualification Name</b>	Pirn Winding Machine Operator	
2.	<b>Sector/s</b>	Textile & Handlooms	
3.	<b>Type of Qualification</b> <input type="checkbox"/> New <input checked="" type="checkbox"/> <b>Revised</b> <input type="checkbox"/> <b>Has Electives/ Options</b> <input type="checkbox"/> <b>OEM</b>	<b>NQR Code &amp; version of the existing /previous qualification:</b> 2022/TEXT/TSC/05295	<b>Qualification Name of the existing/previous version:</b> Pirn Winding Machine Operator
4.	<b>a. OEM Name</b> <b>b. Qualification Name (Wherever applicable)</b>	NA NA	
5.	<b>National Qualification Register (NQR) Code &amp; Version</b>	QG-02-TX-01940-2024-V2-TSC	<b>6. NCrF/NSQF Level: 2</b>
7.	<b>Award (Certificate/Diploma/Advance Diploma/ Any Other</b> (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certificate	
8.	<b>Brief Description of the Qualification</b>	Pirn Winding Machine Operator, is a job-role in a weaving department. The responsibility of Winder Automatic Pirn Winding Machine is to run the winding machine efficiently so as to get maximum output with minimum defects giving due importance to safety and environmental aspects.	

<b>9. Eligibility Criteria for Entry for a Student/Trainee/Learner/Employee</b>	<b>a. Entry Qualification &amp; Relevant Experience:</b>														
	<b>S. No.</b>	<b>Academic/Skill Qualification (with Specialization - if applicable)</b>	<b>Relevant Experience (with Specialization - if applicable)</b>												
	1	Ability to read and write	Nil												
	<b>18 Years</b>														
<b>10 Credits Assigned to this NOS- Qualification, Subject to Assessment (as per National Credit Framework (NCrF))</b>	11 Credits		<b>11. Common Cost Norm Category (I/II/III) (wherever applicable): I</b>												
<b>12. Any Licensing Requirements for Undertaking Training on This Qualification</b>	Not Applicable														
<b>13 Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</b>	<input checked="" type="checkbox"/> <b>Offline Only</b> <input type="checkbox"/> <b>Online Only</b> <input type="checkbox"/> <b>Blended</b>														
	<table border="1"> <thead> <tr> <th style="text-align: center;">Training Delivery Mode</th> <th style="text-align: center;">Theory (Hours)</th> <th style="text-align: center;">Practical (Hours)</th> <th style="text-align: center;">Total (Hours)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>Classroom (offline)</b></td> <td style="text-align: center;">87</td> <td style="text-align: center;">243</td> <td style="text-align: center;">330</td> </tr> <tr> <td style="text-align: center;"><b>Online</b></td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> </tbody> </table>			Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)	<b>Classroom (offline)</b>	87	243	330	<b>Online</b>	-	-	-
Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)												
<b>Classroom (offline)</b>	87	243	330												
<b>Online</b>	-	-	-												
	<i>(Refer Blended Learning Annexure for details)</i>														

14.	<b>Aligned to NCO/ ISCO Code/s</b> (if no code is available mention the same)	NCO-2015/8152.99	
15.	<b>Progression Path After Attaining the Qualification, wherever applicable</b> <i>(Please show Professional and Academic progression)</i>	Assistant Fitter - Weaving	
16.	<b>Other Indian languages in which the Qualification &amp; Model Curriculum are being submitted</b>	Hindi	
17.	<b>Is similar NOS available on NQR-if yes, justification for this qualification</b>	Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:	
18.	<b>Is the NOS Amenable to Persons with Disability</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes", specify applicable type of Disability:	
19.	<b>How participation of women will be encouraged?</b>	This Qualification/NOS is made suitable for all categories of learners including the individuals, Students, professionals with the prescribed entry qualification.	
20.	<b>Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
21	<b>Is Qualification Suitable to be Offered in Schools/Colleges</b>	Schools <input type="checkbox"/> Yes <input type="checkbox"/> No Colleges <input type="checkbox"/> Yes <input type="checkbox"/> No	
22	<b>Name and Contact Details Submitting / Awarding Body SPOC</b> <i>(In case of CS or MS, provide details of both Lead AB &amp; Supporting ABs)</i>	<b>Name: Mr. Vignesh Raja</b> <b>Email: <a href="mailto:raja@texskill.in">raja@texskill.in</a></b> <b>Contact No.: 7502954383</b> <b>Website: <a href="https://texskill.in/">https://texskill.in/</a></b>	
23.	<b>Final Approval Date by NSQC:</b> 31.01.2024	<b>24. Validity Duration:</b> 3 Years	<b>25. Next Review Date:</b> 31.01.2027

## Section 2: Module Summary

### NOS/s of Qualifications

(In exceptional cases these could be described as components)

### Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

**Th.**-Theory **Pr.**-Practical **OJT**-On the Job **Man.**-Mandatory Training **Rec.**-Recommended Proj.-Project

S. no	NOS Module Name	NOS/Module Code & Version (if applicable)	Core/ Non Core	NCrF/ NSQF Level	Credit as per NCrF	Training Duration					Assessment Marks					
						Th.	Pr.	OJT. Man	OJT. Rec	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (if applicable)
1	Taking charge of shift and handing over shift to Pirn Winding Machine operator	TSC/N2211,V 3.0	Core	2	2	15	45			60	40	100		20	160	20
2	Operating Auto Pirn Winding Machine	TSC/N2212,V 3.0	Core	2	5	30	120			150	117	182		41	340	44
3	Maintain work area, tools and machines	TSC/N9001,V 3.0	Non Core	3	0.5	5	10			15	17	20		13	50	6
4	Working in a team	TSC/N9002,V 6.0	Non Core	3	0.5	5	10			15	19	20		11	50	6
5	Maintain health, safety and security at workplace	TSC/N9003,V 5.0	Non Core	3	1.5	15	30			45	32	40		28	100	12
6	Comply with industry and organizational requirement	TSC/N9004,V 3.0	Non Core	3	0.5	5	10			15	15	20		15	50	6
7	Employability Skills	DGT/VSQ/N0101,V 1.0	Non Core	3	1	12	18			30	20	30			50	6
<b>Duration (in Hours) / Total Marks</b>					11	87	243			330	260	412		128	800	100

**Elective NOS/s:**

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	NA															
2.	NA															
<b>Duration (in Hours) / Total Marks</b>																

**Optional NOS/s:**

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	NA															
2.	NA															
<b>Duration (in Hours) / Total Marks</b>																

**Assessment - Minimum Qualifying Percentage**

**Please specify any one of the following:**

Minimum Pass Percentage – Aggregate at qualification level: **50%**

(Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

### Section 3: Training Related

1.	<b>Trainer's Qualification and experience in the relevant sector (in years)</b> (as per NCVET guidelines)	<ul style="list-style-type: none"> <li>Ability to read &amp; and write with 5 years of relevant experience (Min 1 year in production + Min 4 years as trainer (or)</li> <li>Grade 8 with two years of (NTC/ NAC) with Successfully passed Trainer Qualification MEP/Q2601, v2.0– Trainer, Minimum pass percentage 80 percent and TSC/Q2206, v4.0 Pirn Winding Operator, Minimum pass percentage 80 per cent</li> </ul>
2.	<b>Master Trainer's Qualification and experience in the relevant sector (in years)</b> (as per NCVET guidelines)	Diploma/Degree/Masters/PhD in textile with at least 15/10/8/5 years of experience in textile sector with minimum 8/5/4/3 years in teaching/conducting training in Textile Research Associations, CoEs, Govt Textile organizations/ SIMA/ running textile mill
3.	<b>Tools and Equipment Required for the Training</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No (If "Yes", details to be provided in Annexure)
4.	<b>In Case of Revised NOS, details of Any Upskilling Required for Trainer</b>	Not Applicable

### Section 4: Assessment Related

1.	<b>Assessor's Qualification and experience in relevant sector (in years)</b> (as per NCVET guidelines)	<ul style="list-style-type: none"> <li>Diploma (10th Class + 3 years) in the relevant trade with 4 years of relevant experience (or)</li> <li>Diploma (12th Class +2 years) in the relevant trade with 3 years of relevant experience (or)</li> <li>UG (3-years) in the relevant trade with 2 years of relevant experience with successfully passed MEP/Q2701, v2.0 – Assessor, Minimum pass percentage 80 percent and TSC/Q2206, v3.0 Pirn Winding Machine Operator, Minimum pass percentage 80 percent</li> </ul>
2.	<b>Proctor's Qualification and experience in relevant sector (in years)</b> (as per NCVET guidelines), (wherever applicable)	UG in any field
3.	<b>Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years)</b> (as per NCVET guidelines)	Diploma/Degree/Masters/PhD in textile with at least 15/10/8/5 years of experience in textile sector with minimum 8/5/4/3 years in teaching/conducting training in Textile Research Associations, CoEs, Govt Textile organizations/ SIMA/ running textile mill

4.	<b>Assessment Mode</b> ( <i>Specify the assessment mode</i> )	Offline
5.	<b>Tools and Equipment Required for Assessment</b>	<input type="checkbox"/> Same as for training <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ( <i>details to be provided in Annexure-if it is different for Assessment</i> )

## Section 5: Evidence of the Need for the Qualification

*Provide Annexure/Supporting documents name.*

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): Yes. Link - <a href="https://texskill.in/map_22/map.html">https://texskill.in/map_22/map.html</a>
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): Yes Link - <a href="https://texskill.in/map_22/map.html">https://texskill.in/map_22/map.html</a>
3.	Government /Industry initiatives/ requirement (Yes/No): Yes
4.	Number of Industry validation provided: 11
5.	Estimated number of people to be trained: 1000
6.	Evidence of Concurrence/Consultation with Line/State Departments (In case of regulated sectors): (Yes/No): Yes If "No", why:

## Section 6: Annexure & Supporting Documents Check List

*Specify Annexure Name / Supporting document file name*

1.	<b>Annexure:</b> NCrF/NSQF level justification based on NCrF/NSQF descriptors (Mandatory)	Attached. Annexure 1
2.	<b>Annexure:</b> List of tools and equipment relevant for NOS (Mandatory, except in case of online course)	Attached. Annexure 2

3.	<b>Annexure:</b> Detailed Assessment Criteria (Mandatory)	Attached. Annexure 6
4.	<b>Annexure:</b> Assessment Strategy (Mandatory)	Attached. Annexure 6
5.	<b>Annexure:</b> Blended Learning (Mandatory, in case selected Mode of delivery is Blended Learning)	Attached. Annexure 5
6.	<b>Annexure:</b> Multiple Entry-Exit Details (Mandatory, in case qualification has multiple Entry-Exit)	No
7.	<b>Annexure:</b> Acronym and Glossary (Optional)	Attached. Annexure 8
8.	<b>Supporting Document:</b> Model Curriculum (Mandatory – Public view)	Attached. Annexure 9
9.	<b>Supporting Document:</b> Career Progression (Mandatory - Public view)	Attached. Annexure 10
10.	<b>Supporting Document:</b> Occupational Map (Mandatory)	Attached. Annexure 11
11.	<b>Supporting Document:</b> Assessment SOP (Mandatory)	Attached. Annexure 7
12.	Any other document you wish to submit:	NA

## Annexure 1: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
<b>Professional Theoretical Knowledge/Process</b>	<b>Fundamental knowledge</b> <ul style="list-style-type: none"> <li>● Possesses fundamental knowledge of procedures employed in both routine and non-routine contexts.</li> <li>● Has complete knowledge of Quality requirements.</li> <li>● Has knowledge of collecting and communicating the available information</li> <li>● Has fundamental knowledge in domain procedures.</li> </ul>	<p>The pirn winding machine operator, is a job-role in a weaving department. The responsibility of winder automatic pirn winding machine is to run the winding machine efficiently so as to get maximum output with minimum defects giving due importance to safety and environmental aspects. The operator works in familiar, <b>work environment</b> with predictable routine work involved in a weaving mill. The tasks are <b>predictable, routine and involves situations of limited range of activity and fundamental knowledge</b> in taking charge of shift from previous shift pirn winding machine operator and relieving the responsibilities to the next shift pirn winding machine operator, attending to thread breakages, so as to get maximum output &amp; minimum defects.</p> <ul style="list-style-type: none"> <li>● Hence NSQF Level is 2</li> </ul>	NSQF Level 2
<b>Professional and Technical Skills/ Expertise/ Professional Knowledge</b>	<b>Limited finite skills</b> <ul style="list-style-type: none"> <li>● Possesses limited finite skills in the pirn winding activity.</li> <li>● Can apply the required knowledge for successfully implementing or applying techniques/ processes in a specific field/ job role</li> </ul>	<p>A pirn winding machine operator should have the <b>Limited finite skill knowledge</b> about standard operating procedures with respect to process flow and material flow and safety standards in a typical textile weaving mill and responsibilities of a pirn winding machine operator. The operator should also know the causes of defects</p>	NSQF Level 2

	<ul style="list-style-type: none"> <li>• The ability to gain, and where relevant apply a range of knowledge, skills and understanding.</li> <li>• Can clearly identify the relevant tools; and has advanced knowledge of materials in most routine/ non- routine contexts.</li> <li>• Possesses the required operational skills for the work/ job. Skill to deliver job/ work with the required precision and in the estimated timelines.</li> <li>• Capabilities of carrying out a choice of processes and procedures within the range of familiar / unfamiliar contexts.</li> </ul>	<p>incurred due to man and machine faults. Importance of yarn quality, colour coding, safety mechanisms of the machines, stop motions and indication lamps and responsibilities under health, safety and environmental legislation.</p> <p>Hence NSQF Level is 2</p>	
<p><b>Employment Readiness &amp; Entrepreneurship Skills &amp; Mind-set/Professional Skill</b></p>	<p><b>Employment readiness</b></p> <ul style="list-style-type: none"> <li>• Have basic knowledge about Employability Skills including understanding of career planning, digital skills, financial and legal literacy like the Organization's Policies &amp; Standard Operating Procedures (SOP)</li> <li>• Basic Communication skills, both oral and written,</li> <li>• Carryout allocated responsibilities in a fair manner</li> <li>• Basic literacy and Numeracy skills to carry out the allotted responsibility.</li> </ul>	<p>A pirn winding machine operator should be able to <b>write clear and short sentences in local/regional language</b> for making daily work report, write grievance complaint application, comprehends written instructions, and communicates with the supervisor and others appropriately and convey information effectively. The operator applies <b>basic arithmetic and algebraic functions to assess</b> the automatic pirn winding machine. The operator performs basic maintenance required during the production process for quality and uninterrupted output within the limits of own responsibility, comprehends the regulations, natural, social and political environment of a typical weaving mill.</p>	<p>NSQF Level 2</p>

		<ul style="list-style-type: none"> <li>Hence NSQF Level is 2</li> </ul>	
<p><b>Broad Learning Outcomes/ Core Skill</b></p>	<p><b>Carry out the Predefined tasks</b></p> <ul style="list-style-type: none"> <li>come spot at least 10 - 15 minutes earlier to the work.</li> <li>Taking charge of the shift from Pirn Winding Machine Operator</li> <li>Handing over the shift to Pirn Winding Machine Operator</li> <li>Check cleanliness of the machines &amp; other work areas</li> <li>Stripping of empty pirns</li> <li>Running of pirn winding machine</li> <li>Battery filling</li> <li>Other work practices material handling</li> <li>carry out maintenance and/or cleaning within ones responsibility</li> <li>be accountable to the own role in whole process</li> <li>report all problems faced during the process to the reporting authority.</li> </ul>	<p>A pirn winding machine operator takes charge of the shift after discussing in detail the issues faced with respect to the quality, production and safety, reports to the shift superior, runs automatic pirn winding machine, maintaining work area, tools and machines and contributes in making the workplace healthy, safe and secure and follows the industry &amp; organizational compliance. <b><i>Under close supervision the operator has some responsibility for own work within defined limit.</i></b></p> <ul style="list-style-type: none"> <li>Hence NSQF Level is 2</li> </ul>	<p>NSQF Level 2</p>
<p><b>Responsibility</b></p>	<p><b>Assistant</b></p> <ul style="list-style-type: none"> <li>sop (standard operating procedures) and regulations in a weaving unit</li> </ul>	<p>pirn winding machine operator <b><i>recall practical skills</i></b> like taking charge and handing over of the shift, patrolling the machine and ensuring quality production. <b><i>The operator should be able to demonstrate routine operations</i></b> like</p>	<p>NSQF Level 2</p>

	<ul style="list-style-type: none"> <li>• quality systems and other processes practiced in weaving/ textile mill</li> <li>• protocol and format for reporting work related risks/ problems</li> <li>• contact person in case of queries on procedure or products and for resolving issues related</li> <li>• to defective machines, tools, materials &amp; equipment</li> <li>• guidelines for storage &amp; disposal of waste materials.</li> <li>• ensure the safety mechanisms of the machines are in good working order.</li> <li>• understanding the functions of different signal lamps</li> <li>• minimum quality requirements of the product with respect to permissible/non-permissible defects.</li> </ul>	<p>running automatic pirn winding machine, attending to thread breakages, stripping of empty pirns, to use weft pirns kept in the boxes on the respective looms only, to fill the batteries on the corresponding looms. The tasks will be <b>routine, repetitive and in the narrow range within the responsibilities of a pirn winding machine operator</b>. In case of unexpected faults or issues the operator will report to the shift supervisor.  <b>Under close supervision the operator has some responsibility for own work within defined limit.</b></p> <ul style="list-style-type: none"> <li>• Hence NSQF Level is 2</li> </ul>	
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### Annexure 2: Tools and Equipment

#### *List of Tools and Equipment*

Sr. No	Equipment Name	Minimum number of Equipment required (per batch of 30 trainees)
1.	Pirn Winding Machine - 30 Spindles	1
2.	Weft yarn package	30
3.	Empty Pirns	100

**Batch Size: 30**

***Classroom Aids***

The aids required to conduct sessions in the classroom are:

1. Charts
2. Posters
3. Projector
4. Writing Board
5. Seating capacity for 30 candidates
6. Computer/ Laptop Specification
7. Scanner
8. Printer

**Annexure 3: Industry Validations Summary**

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	Deesan Tex Fab Private limited	Laxman C. Patil	General Manager	maharashtra	9766605741	lcpatil@deesantex.in	
2	Ahmad Fabrics	Mohammad Ahmed	owner	tanda	9044023035		
3	Akhtar Textile	Mohammad Akhtar	owner	tanda	6306696720		
4	Bunkar Sahayata sangathan Kendra	Nasim Akhtar	Director	Uttar Pradesh	9354046673	naseemakhtaransari75@gmail.com	
5	Bunkar Sahkari Samiti Ltd	Misbahul Hasan	sabhapati	Gorakhpur	9807550880		
6	Gorakhpur powerloom Association	Hesamul Hasan	Sachiv/prabandhak	Gorakhpur	7275191939	gorakhpurpowerloomassociation@gmail.com	

7	Hasan Textiles	faizul hasan	proprietor	Gorakhpur	9415270639		
8	shakeel Textiles	shakeel ahmad	owner	Tanda	9838955507		
9	Unique Handloom	Misbahul Hasan	proprietor	Gorakhpur	9807550880		
10	Shri Ram Khadi Bhandar	Ranjiv Sinha		meerut	9219510550		
11	SITRA	k. Gopinath	Special Officer	Coimbatore	0422-4215368	<a href="mailto:wuq@sitra.org.in">wuq@sitra.org.in</a>	

#### Annexure 4: Training & Employment Details

Year	Estimated Training # of Total Candidates	Estimated training # of Women	Estimated training # of People with Disability
2023-24	300	48	NA
2024-25	300	48	NA
2025-26	400	64	NA

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
2	2022	48	43	41	21	NA. Data Requested from NSDC	-	-	-	-			
1	2021	50	45	43	21	NA. Data Requested from NSDC	-	-	-	-			
1	2020	0	0	0	0	NA. Data Requested from NSDC	-	-	-	-			

*Applicable for revised qualifications only, data to be provided year-wise for past 3 years.*

**List Schemes in which the previous version of Qualification was implemented:**

1. PMKVY
2. Digital India Corporation. Ministry of Electronics and Information Technology

**Content availability for previous versions of qualifications:**

Participant Handbook Facilitator Guide Digital Content Qualification Handbook Any Other:

**Languages in which Content is available: English**

### Annexure 5: Blended Learning - NA

#### Blended Learning Estimated Ratio & Recommended Tools:

Not Applicable

**Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available on:**

[https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skill  
i ng.pdf](https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skill%20i%20ng.pdf)

S. No.	Select the Components of the NOS	List Recommended Tools – for all Selected Components	Offline: Online Ratio
1	<input type="checkbox"/> Theory/ Lectures - Imparting theoretical and conceptual knowledge	Computer, CAD Software, Graph Paper, Fabric Sample, Sketch Pens	20:80
2	<input type="checkbox"/> Imparting Soft Skills, Life Skills and Employability Skills /Mentorship to Learners	Computer, Projector	20:80
3	<input type="checkbox"/> Showing Practical Demonstrations to the learners	Computer, Projector	20:80
4	<input type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	Computer, Projector	20:80
5	<input type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice	Computer, CAD Software, Graph Paper, Fabric Sample, Sketch Pens	20:80
6	<input type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations	Computer, CAD Software, Graph Paper, Fabric Sample, Sketch Pens	20:80
7	<input type="checkbox"/> On the Job Training (OJT)/ Project Work Internship/ Candidate Training	Computer, CAD Software, Graph Paper, Fabric Sample, Sketch Pens	20:80

## Annexure 6: Detailed Assessment Criteria

Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>TSC/N2211: Taking charge of shift and handing over shift to Pirn Winding Machine Operator</b>	<b>Take charge of the shift from Pirn winding machine operator</b>	<b>31</b>	<b>78</b>	<b>-</b>	<b>15</b>
	1. come at least 10 - 15 minutes earlier to the work spot	-	12	-	-
	2. meet the previous shift pirn winder & discuss with him/ her regarding the issues faced by him with respect to the quality, production, spare, safety or any other specific instruction etc	6	6	-	-
	3. check for the running condition of all pirn winding spindles	3	6	-	3
	4. check the running material & the count in the running spindles	3	6	-	3
	5. check the weft stock & the quality of the weft stock	4	8	-	-
	6. ensure whether the said stock is enough to run the machines throughout the shift	2	8	-	-
	7. check for the empty pirns on the magazines	4	6	-	-
	8. check whether all the empty bobbins/ pirns are collected from the empty pirn box & also to ensure that the bunch waste in the said empty pirns are completely stripped	2	8	-	2
	9. check the cleanliness of the machines & other work areas	3	4	-	3
	10. check whether any spare/raw material/ tool / fabric/ any other material are thrown under the machines or in the other work areas	2	6	-	2
	11. question the previous shift winder for any deviation in the above and should bring the same to the knowledge of his/ her shift superior as well that of the previous shift	2	8	-	2
	<b>Handing over the Shift to Pirn winding machine operator</b>	<b>9</b>	<b>22</b>	<b>-</b>	<b>5</b>
	12. hand over the shift to the incoming winder in a proper manner & get clearance from the incoming counterpart before leaving the work spot	3	8	-	1
	13. report to his/ her shift superiors as well as that of the incoming shift, in case his/ her counterpart doesn't report for work. in that case, the shift has to be properly handed over to the incoming shift superior & get clearance from him/ her, before leaving the work spot	3	8	-	1
14. report to his/ her shift superior about the quality / production / safety issues/ any other issue faced in his/ her shift and should leave the	3	6	-	3	

	department only after getting concurrence for the same from his/ her superiors				
	<b>NOS Total</b>	<b>40</b>	<b>100</b>	<b>-</b>	<b>20</b>
<b>Module</b>	<b>Assessment Criteria for Outcomes</b>	<b>Theory Marks</b>	<b>Practical Marks</b>	<b>Project Marks</b>	<b>Viva Marks</b>
<b>TSC/N2212: Operating Auto Pirn Winding Machine</b>	<b>Stripping of Empty Pirns</b>	<b>12</b>	<b>32</b>	<b>-</b>	<b>6</b>
	1. collect the empty pirns from the boxes kept on the looms to store the empty pirns falling after transfer of weft pirns effected through automatic weft replenishment	2	6	-	2
	2. ensure that there is no excess weft yarn than the bunch waste left in the empty pirns. the same has to be intimated to the higher authority, so that it can be arrested on the looms. empty pirns with excess weft yarns ( pirns & pirns) have to be run on the looms without giving room for high wastage of yarn	-	8	-	2
	3. see that the empty pirns are left with 2- 3 metres of weft yarn (bunch waste), as otherwise, it illustrates that there was no bunch provided in the pirn winding	-	8	-	2
	4. handstrip the bunch waste from the collected empty pirns	5	5	-	-
	5. fill the stripped empty pirns in the magazine on the pirn winding machine	5	5	-	-
	<b>Running of Pirn Winding Machine</b>	<b>23</b>	<b>54</b>	<b>-</b>	<b>15</b>
	6. ensure the spindle numbers are written against each spindle	2	4	-	2
	7. ensure proper identification of the material & the count to be run on each & every pirn winding spindle. same can be written on the corresponding spindles, or boards can be hanged against the individual spindles	5	5	-	-
	8. ensure that the full pirns are dropped in the weft boxes kept below respective pirn winding spindles	3	3	-	2
9. ensure that the full pirns from one spindle dont fall in the box kept below the adjacent spindles	3	4	-	3	
10. check the material & the count in the cones / cheeses from the bags/	2	4	-	2	

boxes before the same are fixed on the cone/cheese holders on the machine against the respective spindles				
11. ensure the auto bunching mechanism on the respective spindles is working properly	-	8	-	2
12. bring the weft yarn from the cones/ cheeses through the guides on the respective spindles	4	4	-	2
13. ensure that the initial threading is with proper bunch length only	-	8	-	2
14. attend the weft breakage using knitters or by ensuring tiny hand knots.	2	6	-	-
15. bring any abnormal thread breakage, to the notice of higher authority	2	8	-	-
<b>Battery Filling</b>	<b>16</b>	<b>36</b>	<b>-</b>	<b>4</b>
16. take the produced weft pirns to the loom shed in separate boxes depending on the material and the count to ensure no weft mix-up	2	8	-	-
17. store the weft pirns on the pirn boxes kept on the respective looms	2	8	-	-
18. use weft pirns kept in the boxes on the respective looms only, to fill the batteries on the corresponding looms	4	6	-	-
19. pull about 2 metres of weft in the pirns in the right hand & hold around 4 - 5 pirns at a time in the left hand	4	6	-	-
20. press the head of the pirns in the space in the battery disc one by one and press the tips of the pirns in the aligned path of the pirn holders	2	4	-	2
21. wind the pirn threads in the battery umbrella anti clockwise	2	4	-	2
<b>Other Work Practices</b>	<b>66</b>	<b>60</b>	<b>-</b>	<b>16</b>
22. write following details on a board hanged/ kept in the winding department: spindle number, material type ( cotton/ viscose/ polyester /p.c./ other etc) running on the espective spindle, material classification ( o. e/ ring spun carded/ ring spun combed/ ring spun compact/other etc. running on the respective spindle, count running on the respective spindle, the loom number against the respective spindle	2	4	-	2
23. ensure that stripping of empty pirns is done by hands only and no knife to be used as it will damage the empty pirns	2	4	-	2
24. ensure that the empty pirns are in good condition in respect to both head & tip	2	4	-	2
25. ensure that brass wrapper in the empty pirn is in good condition. Whenever new empty pirns are engaged see that the brass portion is buffed properly using sand /emery paper	2	4	-	2

	26. do not use any damaged or broken pirn, in case there is breakage /damage the same has to be brought to the notice of the higher authority while collecting empty pirns from the looms	2	4	-	2
	27. clean the machine & the pirn winding area at least twice in a shift	2	6	-	2
	28. collect the waste wound on the umbrella of the loom batteries at the end of the shift	2	6	-	2
	29. weigh the battery waste & bunch waste separately and the same has to be recorded in the note book kept for it	4	4	-	-
	30. store the said wastes separately in the places earmarked	5	3	-	-
	31. tie the waste bag & all the waste generated by the winders are collected in it, which can be ultimately disposed off in the places/ bins provided	5	3	-	-
	32. ensure that the correct weft yarn only is used	6	2	-	-
	33. additional wastage of raw materials for any quality issue or defective cone etc. to be brought to the notice of the superiors	4	4	-	-
	34. give preference to safety should not enter the area, where he/ she are not allowed., should not do a job on which training has not being given	7	3	-	-
	35. ensure that no raw material/ cloth/ spare/ tool / any other material is thrown under/ near the machines or in the other work areas	5	3	-	-
	36. check for the reasons for frequent weft breaks& take corrective action.	6	1	-	1
	37. Report the same to the mechanics/ fitters/ superiors if it is not corrected	6	1	-	1
	38. write log book for the following: spindle problem for bunch or non functioning of spindle, spare parts breakage, other machine complaints, material complaints for poor, performance or damages, pirn breakages (loom wise), pirn breakage in pirn winding,	4	4	-	-
	<b>NOS Total</b>	<b>117</b>	<b>182</b>	<b>-</b>	<b>41</b>
<b>Module</b>	<b>Assessment Criteria for Outcomes</b>	<b>Theory Marks</b>	<b>Practical Marks</b>	<b>Project Marks</b>	<b>Viva Marks</b>
<b>TSC/N9001: Maintain work area, tools and machines</b>	<b>Maintaining the work area, tools and machines</b>	<b>17</b>	<b>20</b>	<b>-</b>	<b>13</b>
	1. handle materials, machinery, equipment and tools with care and use them in the correct way	2	2	-	1
	2. use correct lifting and handling procedures	1	2	-	1

	3. use materials to minimize waste	2	1	-	1
	4. maintain a clean and hazard free working area	1	1	-	1
	5. maintain tools and equipment	2	1	-	1
	6. carry out running maintenance within agreed schedules	1	2	-	1
	7. carry out maintenance and/or cleaning within ones responsibility	1	2	-	1
	8. report unsafe equipment and other dangerous occurrences	1	2	-	-
	9. ensure that the correct machine guards are in place	1	1	-	1
	10. work in a comfortable position with the correct posture	1	1	-	1
	11. use cleaning equipment and methods appropriate for the work to be carried out	1	1	-	1
	12. dispose of waste safely in the designated location	1	2	-	1
	13. store cleaning equipment safely after use	1	1	-	1
	14. carry out cleaning according to schedules and limits of responsibility	1	1	-	1
	<b>NOS Total</b>	<b>17</b>	<b>20</b>	<b>-</b>	<b>13</b>
<b>Module</b>	<b>Assessment Criteria for Outcomes</b>	<b>Theory Marks</b>	<b>Practical Marks</b>	<b>Project Marks</b>	<b>Viva Marks</b>
<b>TSC/N9002: Working in a team</b>	<b>Commitment and trust</b>	<b>5</b>	<b>4</b>	<b>-</b>	<b>2</b>
	1. be accountable to the own role in whole process	2	1	-	1
	2. perform all roles with full responsibility	2	1	-	1
	3. be effective and efficient at workplace	1	2	-	-
	<b>Communication</b>	<b>6</b>	<b>7</b>	<b>-</b>	<b>4</b>
	4. properly communicate about company policies	1	2	-	1
	5. report all problems faced during the process	1	2	-	1
	6. talk politely with other team members and colleagues	2	1	-	1
	7. submit daily report of own performance	2	2	-	1
	<b>Adaptability</b>	<b>5</b>	<b>4</b>	<b>-</b>	<b>3</b>
	8. adjust in different work situations	1	1	-	1
	9. give due importance to other's point of view	2	1	-	1
	10. avoid conflicting situations	2	2	-	1
	<b>Creative freedom</b>	<b>3</b>	<b>5</b>	<b>-</b>	<b>2</b>
11. develop new ideas for work procedures	1	3	-	1	
12. improve upon the existing techniques to increase process efficiency	2	2	-	1	
	<b>NOS Total</b>	<b>19</b>	<b>20</b>	<b>-</b>	<b>11</b>

Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>TSC/N9003: Maintain health, safety and security at workplace</b>	<b>Comply with health, Safety and security requirements at work</b>	<b>27</b>	<b>35</b>	<b>-</b>	<b>23</b>
	1. comply with health and safety related instructions applicable to the workplace	2	2	-	2
	2. use and maintain personal protective equipment such as ear plug, nose mask , head cap etc., as per protocol	2	2	-	2
	3. carry out own activities in line with approved guidelines and procedures	2	2	-	2
	4. maintain a healthy lifestyle and guard against dependency on intoxicants	2	2	-	2
	5. follow environment management system related procedures	2	2	-	2
	6. identify and correct (if possible) malfunctions in machinery and equipment	2	2	-	1
	7. report any service malfunctions that cannot be rectified	2	2	-	1
	8. store materials and equipment in line with organisational requirements	2	2	-	1
	9. safely handle and remove waste	2	2	-	1
	10. minimize health and safety risks to self and others due to own actions	1	2	-	1
	11. seek clarifications, from supervisors or other authorized personnel in case of perceived risks	1	2	-	2
	12. monitor the workplace and work processes for potential risks and threat	1	2	-	1
	13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned	1	2	-	1
	14. report hazards and potential risks/ threats to supervisors or other authorized personnel	1	2	-	1
	15. participate in mock drills/ evacuation procedures organized at the workplace	1	2	-	-
	16. undertake first aid, fire-fighting and emergency response training, if asked to do so	1	2	-	1
	17. take action based on instructions in the event of fire, emergencies or accidents	1	2	-	1
	18. follow organisation procedures for shutdown and evacuation when required	1	1	-	1
<b>Recognizing the hazards</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	

	19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry	1	1	-	1
	20. recognise other possible security issues existing in the workplace	1	1	-	1
	<b>Planning the safety techniques Implementing the programs</b>	<b>3</b>	<b>3</b>	<b>-</b>	<b>3</b>
	21. recognise different measures to curb the hazards	1	1	-	1
	22. communicate the safety plan to everyone	1	1	-	1
	23. attach disciplinary rules with the implementation	1	1	-	1
	<b>NOS Total</b>	<b>32</b>	<b>40</b>	<b>-</b>	<b>28</b>
<b>Module</b>	<b>Assessment Criteria for Outcomes</b>	<b>Theory Marks</b>	<b>Practical Marks</b>	<b>Project Marks</b>	<b>Viva Marks</b>
<b>TSC/N9004: Comply with industry and organizational requirement</b>	<b>Self-development</b>	<b>5</b>	<b>9</b>	<b>-</b>	<b>7</b>
	1. perform own duties effectively	1	2	-	2
	2. take responsibility for own actions	1	2	-	2
	3. be accountable towards the job role and assigned duties	1	2	-	1
	4. take initiative and innovate the existing methods	1	1	-	1
	5. focus on self-learning and improvement	1	2	-	1
	<b>Team work</b>	<b>3</b>	<b>5</b>	<b>-</b>	<b>4</b>
	6. co-ordinate with all the team members and colleagues	1	2	-	1
	7. communicate politely	1	1	-	2
	8. avoid conflicts and miscommunication	1	2	-	1
	<b>Organisational standards</b>	<b>3</b>	<b>4</b>	<b>-</b>	<b>3</b>
	9. know the organisational standards	1	1	-	1
	10. implement them in your performance	1	2	-	1
	11. motivate others to follow them	1	1	-	1
<b>Industry standards</b>	<b>4</b>	<b>2</b>	<b>-</b>	<b>1</b>	
12. monitor the workplace and work processes for potential risks and threat	2	1	-	-	
13. align them with organisation standards	2	1	-	1	
	<b>NOS Total</b>	<b>15</b>	<b>20</b>	<b>-</b>	<b>15</b>
<b>DGT/VSQ/N0101 – Employability Skills</b>	<b>Introduction to Employability Skills</b>	1	1	-	-
	understand the significance of employability skills in meeting the job				

	requirements				
	<b>Constitutional values – Citizenship</b>	1	1	-	-
	identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices.				
	<b>Becoming a Professional in the 21st Century</b>	1	3	-	-
	explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.				
	<b>Basic English Skills</b>	2	3	-	-
	speak with others using some basic English phrases or sentences				
	<b>Communication Skills</b>	1	1	-	-
	follow good manners while communicating with others				
	work with others in a team				
	<b>Diversity &amp; Inclusion</b>	1	1	-	-
	communicate and behave appropriately with all genders and PwD				
	report any issues related to sexual harassment				
	<b>Financial and Legal Literacy</b>	3	4	-	-
	use various financial products and services safely and securely				
	calculate income, expenses, savings etc.				
	approach the concerned authorities for any exploitation as per legal rights and laws				
	<b>Essential Digital Skills</b>	4	6	-	-
	operate digital devices and use its features and applications securely and safely				
	use internet and social media platforms securely and safely				
	<b>Entrepreneurship</b>	3	5	-	-
	identify and assess opportunities for potential business				
	identify sources for arranging money and associated financial and legal challenges				
	<b>Customer Service</b>	2	2	-	-
	identify different types of customers				
	identify customer needs and address them appropriately.				
	follow appropriate hygiene and grooming standards.				

	<b>Getting ready for apprenticeship &amp; Jobs</b>	1	3	-	-
	create a basic biodata				
	search for suitable jobs and apply				
	identify and register apprenticeship opportunities as per requirement				
	<b>NOS Total</b>	<b>20</b>	<b>30</b>	<b>-</b>	<b>-</b>

### Annexure 7: Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

*Mention the detailed assessment strategy in the provided template.*

#### 1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SDMS/SIP or email
- Assessment agencies send the assessment confirmation to VTP/TC looping SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process & records

#### 2. Testing Environment:

- Confirm that the centre is available at the same address as mentioned on SDMS or SIP
- Check the duration of the training.
- Check the Assessment Start and End time to be as 10 a.m. and 5 p.m.
- If the batch size is more than 30, then there should be 2 Assessors.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.
- Check the mode of assessment—Online (TAB/Computer) or Offline (OMR/PP).
- Confirm the number of TABs on the ground are correct to execute the Assessment smoothly.
- Check the availability of the Lab Equipment for the particular Job Role.

#### 3. Assessment Quality Assurance levels / Framework:

- Question papers created by the Subject Matter Experts (SME)

- Question papers created by the SME verified by the other subject Matter Experts
  - Questions are mapped with NOS and PC
  - Question papers are prepared considering that level 1 to 3 are for the unskilled & semi-skilled individuals, and level 4 and above are for the skilled, supervisor & higher management
  - Assessor must be ToA certified & trainer must be ToT Certified
  - Assessment agency must follow the assessment guidelines to conduct the assessment
4. Types of evidence or evidence-gathering protocol:
- Time-stamped & geotagged reporting of the assessor from assessment location
  - Centre photographs with signboards and scheme specific branding
  - Biometric or manual attendance sheet (stamped by TP) of the trainees during the training period
  - Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos
5. Method of verification or validation:
- Surprise visit to the assessment location
  - Random audit of the batch
  - Random audit of any candidate
6. Method for assessment documentation, archiving, and access
- Hard copies of the documents are stored
  - Soft copies of the documents & photographs of the assessment are uploaded / accessed from Cloud Storage
  - Soft copies of the documents & photographs of the assessment are stored in the Hard Drives

### Annexure 8: Acronym and Glossary

#### Acronym

Acronym	Description
<b>AA</b>	Assessment Agency
<b>AB</b>	Awarding Body
<b>NCrF</b>	National Credit Framework
<b>NOS</b>	National Occupational Standard(s)
<b>NQR</b>	National Qualification Register
<b>NSQF</b>	National Skills Qualifications Framework

**Glossary**

<b>Term</b>	<b>Description</b>
<b>National Occupational Standards (NOS)</b>	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
<b>Qualification</b>	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
<b>Qualification File</b>	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
<b>Sector</b>	A grouping of professional activities on the basis of their main economic function, product, service or technology.