

Circular loom operator (Shuttle type)

- ☒ 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: 3

Submitted By:

Textile Sector Skill Council

Contact Details:

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Table of Contents

Section 1: Basic Details	3
Section 2: Module Summary	6
NOS/s of Qualifications	6
Mandatory NOS/s:.....	6
Elective NOS/s:	7
Optional NOS/s:	7
Assessment - Minimum Qualifying Percentage	7
Section 3: Training Related.....	8
Section 4: Assessment Related	8
Section 5: Evidence of the Need for the Qualification	9
Section 6: Annexure & Supporting Documents Check List	10
Annexure 1: Evidence of Level.....	11
Annexure 2: Tools and Equipment	14
Annexure 3: Industry Validations Summary.....	14
Annexure 4: Training & Employment Details	15
Annexure 5: Blended Learning - NA.....	17
Annexure 6: Detailed Assessment Criteria	18
Annexure 7: Assessment Strategy	30
Annexure 8: Acronym and Glossary	32

Section 1: Basic Details

1.	Qualification Name	Circular loom operator (Shuttle type)																				
2.	Sector/s	Textile & Handlooms																				
3.	Type of Qualification ☐ New ☒ Revised ☐ Has Electives/ Options ☐ OEM	NQR Code & version of the existing /previous qualification: QG-03-TX-01911-2024-V1.1-TSC	Qualification Name of the existing/previous version: Circular loom operator (Shuttle type)																			
4.	Qualification Name	Circular loom operator (Shuttle type)																				
5.	National Qualification Register (NQR) Code & Version	QG-03-TX-04110-2025-V2-TSC	6. NCrF/NSQF Level: 3																			
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other) (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certificate																				
8.	Brief Description of the Qualification	The Circular loom operator (Shuttle type) is responsible for running the Circular loom (Shuttle type) under supervision by maintaining health, safety and security in the raffia industry.																				
9.	Eligibility Criteria for Entry for a Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #e0e0e0;"> <th style="width: 10%;">S. No.</th> <th style="width: 60%;">Academic/Skill Qualification (with Specialization - if applicable)</th> <th style="width: 30%;">Relevant Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>• 10th or Equivalent</td> <td>Nil</td> </tr> <tr> <td>2</td> <td>• 9th or Equivalent</td> <td>1.5 Years</td> </tr> <tr> <td>3</td> <td>• 8th or Equivalent</td> <td>3 Years</td> </tr> <tr> <td>4</td> <td>• 5th or Equivalent</td> <td>7.5 Years</td> </tr> <tr> <td>5</td> <td>• Previous relevant Qualification of NSQF Level 2</td> <td>3 Years</td> </tr> </tbody> </table> 18 Years			S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)	1	• 10th or Equivalent	Nil	2	• 9th or Equivalent	1.5 Years	3	• 8th or Equivalent	3 Years	4	• 5th or Equivalent	7.5 Years	5	• Previous relevant Qualification of NSQF Level 2	3 Years
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)																				
1	• 10th or Equivalent	Nil																				
2	• 9th or Equivalent	1.5 Years																				
3	• 8th or Equivalent	3 Years																				
4	• 5th or Equivalent	7.5 Years																				
5	• Previous relevant Qualification of NSQF Level 2	3 Years																				

10.	Credits Assigned to this NOS- Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	11 Credits	11. Common Cost Norm Category (I/II/III) (wherever applicable): I													
12.	Any Licensing Requirements for Undertaking Training on This Qualification	Not Applicable														
13.	Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	☒ Offline Only ☐ Online Only ☐ Blended <table border="1" data-bbox="1073 505 1759 716"> <thead> <tr> <th>Training Delivery Mode</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>102</td> <td>228</td> <td>330</td> </tr> <tr> <td>Online</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> (Refer Blended Learning Annexure for details)			Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)	Classroom (offline)	102	228	330	Online	-	-	-
Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)													
Classroom (offline)	102	228	330													
Online	-	-	-													

14.	Aligned to NCO/ ISCO Code/s (if no code is available mention the same)	NCO-2015/8151.99	
15.	Progression Path After Attaining the Qualification, wherever applicable <i>(Please show Professional and Academic progression)</i>	Fitter - Circular Loom (Shuttle Type)	
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi	
17.	Is similar NOS available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:	
18.	Is the NOS Amenable to Persons with Disability	☐ Yes ☒ No If "Yes", specify applicable type of Disability:	
19.	How participation of women will be encouraged?	This Qualification/NOS is made suitable for all categories of learners including the individuals, Students, professionals with the prescribed entry qualification.	
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	☒ Yes ☐ No TSC/N9011 - Maintain work area, tools and machines in raffia sector TSC/N9012 - Working in a team in Raffia sector TSC/N9013 - Maintain health, safety and security at work place raffia sector TSC/N9014 - Comply with industry and organizational requirements raffia sector	
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☐ Yes ☒ No Colleges ☐ Yes ☒ No	
22.	Name and Contact Details Submitting / Awarding Body SPOC <i>(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</i>	Name: Mr. Vignesh Raja Email: raja@texskill.in Contact No.: 7502954383 Website: https://texskill.in/	
23.	Final Approval Date by NSQC: 08.05.2025	24. Validity Duration: 3 years	25. Next Review Date: 08.05.2028

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 Circular loom (shuttle type) operator	TSC/N8401,V 2.0	Core	3	1.25	15	22.5			37.5	40	60			100	13
2	Running Circular loom (shuttle type)	TSC/N8402,V 2.0	Core	3	3	15	75			90	60	90			150	20
3	Undertake Warp Threading in Circular Loom (Shuttle Type)	TSC/N8403,V 2.0	Core	3	1.25	15	22.5			37.5	20	30			50	7
4	Contribute quality weaving in Circular loom (Shuttle type)	TSC/N8404,V 2.0	Core	3	1.5	15	30			45	40	60			100	13
5	Maintain work area, tools and machines in raffia sector	TSC/N9011,V 2.0	Non Core	3	0.5	5	10			15	40	60			100	13
6	Working in a team in Raffia sector	TSC/N9012,V 2.0	Non Core	3	0.5	5	10			15	19	31			50	7
7	Maintain health, safety and security at work place raffia sector	TSC/N9013,V 2.0	Non Core	3	1.5	15	30			45	41	59			100	13
8	Comply with industry and organizational requirements raffia sector	TSC/N9014,V 2.0	Non Core	3	0.5	5	10			15	22	28			50	7
9	Employability Skills	DGT/VSQ/N0101, V 1.0	Non Core	2	1	12	18			30	20	30			50	7
Duration (in Hours) / Total Marks					11	102	228			330	302	448			750	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.																
2.																
Duration (in Hours) / Total Marks																

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.																
2.																
Duration (in Hours) / Total Marks																

Assessment - Minimum Qualifying Percentage**Please specify any one of the following:**Minimum Pass Percentage – Aggregate at qualification level: **50%**

Pass Percentage of the Qualification is scheme specific, Unless specified by scheme, it is 50% or else scheme guidelines will override it.

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

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	• Class 10th with 6 years of relevant experience (Min 1 year in production + Min 5 year as trainer) (or) • CTS (Class 10th + 2 years) in the relevant trade with 5 years of relevant experience (Min 1 year in production + Min 4 year as trainer) with Successfully passed Trainer Qualification MEP/Q2601, v2.0– Trainer (VET and Skills), Minimum pass percentage 80 percent and TSC/Q8401, v4.0 Circular loom operator (Shuttle type), Minimum pass percentage 80 per cent
2.	Master Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	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.	Tools and Equipment Required for the Training	☒ Yes ☐ No <i>(If "Yes details to be provided in Annexure)</i>
4.	In Case of Revised NOS, details of Any Upskilling Required for Trainer	Not Applicable

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	• Diploma (10th Class + 3 years) in the relevant trade with 4 years of relevant experience (or) • Diploma (12th Class +2 years) in the relevant trade with 3 years of relevant experience (or) • UG (3-years) in the relevant trade with 2 years of relevant experience with successfully passed MEP/Q2701, v2.0 – Assessor (VET and Skills), Minimum pass percentage 80 percent and TSC/Q8401, v4.0 Circular loom operator (Shuttle type), Minimum pass percentage 80 percent
2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines), (wherever applicable)</i>	UG in any field

3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (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.	Assessment Mode (Specify the assessment mode)	Offline
5.	Tools and Equipment Required for Assessment	☐ Same as for training ☒ Yes ☐ No (details to be provided in Annexure-if it is different for Assessment)

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 - https://texskill.in/map_22/map.html
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): Yes Link - https://texskill.in/map_22/map.html
3.	Government /Industry initiatives/ requirement (Yes/No): Yes
4.	Number of Industry validation provided: 6
5.	Estimated number of people to be trained: 500
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.	Annexure: NCrf/NSQF level justification based on NCrf/NSQF descriptors (Mandatory)	Attached. Annexure 1
2.	Annexure: List of tools and equipment relevant for NOS (Mandatory, except in case of online course)	Attached. Annexure 2
3.	Annexure: Detailed Assessment Criteria (Mandatory)	Attached. Annexure 6
4.	Annexure: Assessment Strategy (Mandatory)	Attached. Annexure 6
5.	Annexure: Blended Learning (Mandatory, in case selected Mode of delivery is Blended Learning)	Attached. Annexure 5
6.	Annexure: Multiple Entry-Exit Details (Mandatory, in case qualification has multiple Entry-Exit)	No
7.	Annexure: Acronym and Glossary (Optional)	Attached. Annexure 8
8.	Supporting Document: Model Curriculum (Mandatory – Public view)	Attached. Annexure 9
9.	Supporting Document: Career Progression (Mandatory - Public view)	Attached. Annexure 10
10.	Supporting Document: Occupational Map (Mandatory)	Attached. Annexure 11
11.	Supporting Document: 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
Professional Theoretical Knowledge/Process	Range of knowledge • Possesses knowledge involving a defined range of standard procedures employed in routine contexts. • Understands the basic concept of timely delivery and Quality. • Can interpret the available information & communicate the same. • Basic knowledge of collecting and organizing information for problem identification and solution. • Understands the basic financial and • Uses limited discretion and judgement over a range of known responses to familiar problems	The circular loom operator (shuttle type) works in familiar, predictable, and routine situation like identify and bring necessary tools for operation while coming for the shift, check for the current running process parameters in the machine, report and seek clarification from the superior for doubts and work orders, keep the work area clean, carry out the work based on limits of responsibility and use the specified tools/ equipment's for operation. Hence NSQF Level is 3	NSQF Level 3
Professional and Technical Skills/ Expertise/ Professional Knowledge	Range of technical skills • A range of skills and technical capabilities of carrying out a choice of processes and procedures within the range of familiar contexts • The ability to gain, and where relevant apply a range of knowledge, skills and understanding. • Has the required skills for Identification of the problem and issues within the range of familiar	The circular loom operator (shuttle type) requires factual knowledge of Field like various types of tape material and denier LDPE, HDPE, types of fabric weaves, anti skid, ventilated etc. he/she has the required skills for Identification of the problem and issues within the range knotting and threading procedure based on types of fabric weave and working principle of circular loom, fabric take-off method. He/she possesses operational knowledge and understanding of the work/ job and various	NSQF Level 3

	contexts and generate possible solution. • Skills to identify the relevant tools and materials in given context. • Possesses operational knowledge and understanding of the work/ job. • Skill to deliver job/work with reasonable precision.	maintenance methods and schedule, specification of major parts like shuttle, heddle, cam etc. Hence NSQF Level is 3	
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Team readiness & Enterpreurial readiness • Working as a member of a team/ within a team. Display Personal Motivation. Positive Attitude & Passion for Work • Good skills in written and oral communication with some clarity, basic knowledge of Language to support such communication. • Intermediate literacy and Numeracy skills • Skills for workshop calculations and basic of arithmetic and algebraic principles. • Have broader Employability Skills including self-employment and mini- entrepreneurship skills creating job for more than 1 person. • Can use digital tools, has basic Financial and Digital literacy, Aadhar and Mobile	The circular loom operator (shuttle type) is able to use language to communicate written or oral, with required clarity, write local or English language for recording production, quality related information, numbering, and maintenance of related information and materials, etc he/she can talk effectively to convey information succinctly and unequivocally, ask for clarification and advice from others, communicate politely and requires a basic arithmetic and algebraic principle skills to understand process requirements. Hence NSQF Level is 3.	NSQF Level 3
Broad Learning Outcomes/ Core Skill	Carry out Range of tasks and may provide range of solutions: • The candidate must be able to carry out job/ work/ tasks/ /small	The Circular loom operator (Shuttle type) ensure that the process parameters are machine are matching with the job card, adjust the machine speed based on raw material type and specification, ensure that	NSQF Level 3

	project/assignments in a familiar, predictable, routine, situation of clear choice • Focus on range of application of standard procedures or operations in production/ services. • Able to identify/ anticipate the problems and possible range of solutions in production/ services • Tasks are mostly performed by own and require little instructions and supervision. • Understands all safety & general hygiene norms and environmental aspects, together with Risks.	the size of the knotting is tiny, ensure that the correct drawing of the warp based on type of weave, ensure the correct passage of material while carry out warp threading, ensure the correct passage of material for weft replenishment . he/ she is able to perform tasks mostly by own and require little instructions and supervision. Hence NSQF Level is 3	
Responsibility	Accountable/ responsible - Jr. Technician & Technician • Takes responsibility for delivery and quality of own work and tangible output. • At level 3.0 the candidate works as a skilled worker/ technician.. • Take work from the helpers or assistants and collaboratively work with junior technicians. • Able to assist in the planning of the routine and predictable tasks within a specific field.	The circular loom operator (shuttle type) demonstrates responsibility for own work and learning. He ensures his own job role and responsibilities and sources for information pertaining to employment terms, compensation, job role, and responsibilities. he/she plans and organizes own work in a way that all activities are completed on time and as per specifications. He/she able to assist in the planning of the routine and predictable tasks within a specific field like carry out cleaning according to schedule and limits of responsibility. Hence NSQF Level is 3	NSQF Level 3

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.	6 Shuttle Circular Loom	1

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	Pashupati Laminators Pvt Ltd	Vijay Singh	VP (Operations & Admin)	Uttar Pradesh	9634097028	fabric@pashupatigrp.com	
2	TTRC-Lohia Corp	Rajeev Kumar Dwivedi	Director	Kanpur	9792971132	Rajeev.dwivedi@lohiagroup.com	
3	Tribhuvan Polymers pvt ltd	Amit charan	managing Director	Gujarat	8156041098	amit@tripol.in	
4	AMS Teachest industries	N. Asif Ahmed	Manager	Tamil Nadu	9677885353	asifahmed5353@gmail.com	
5	Amacif S.A	Manoj kumar Singh	Project Manager	West Africa	+224656147456	manoj Singh_8280@yahoo.com	
6	Bhutan Polymers Co Ltd.	Nawgay	CEO	Gomtu, Bhutan	9755371179	bpclgomtu@yahoo.com	

Annexure 4: Training & Employment Details

Year	Estimated Training # of Total Candidates	Estimated training # of Women	Estimated training # of People with Disability
2026	500	100	NA
2027	500	100	NA
2028	500	100	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	71	64	61	30	NA. Data Requested from NSDC	NA. Data Requested from NSDC	NA. Data Requested from NSDC	NA. Data Requested from NSDC	-	-	-	-
1	2021	70	63	60	30	NA. Data Requested from NSDC	NA. Data Requested from NSDC	NA. Data Requested from NSDC	NA. Data Requested from NSDC	-	-	-	-
1	2020	0	0	0	0	NA. Data Requested from NSDC	NA. Data Requested from NSDC	NA. Data Requested from NSDC	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%20i%20ng.pdf>

S. No.	Select the Components of the NOS	List Recommended Tools – for all Selected Components	Offline: Online Ratio
1	☐ Theory/ Lectures - Imparting theoretical and conceptual knowledge	Computer, CAD Software, Graph Paper, Fabric Sample, Sketch Pens	20:80
2	☐ Imparting Soft Skills, Life Skills and Employability Skills /Mentorship to Learners	Computer, Projector	20:80
3	☐ Showing Practical Demonstrations to the learners	Computer, Projector	20:80
4	☐ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	Computer, Projector	20:80
5	☐ Tutorials/ Assignments/ Drill/ Practice	Computer, CAD Software, Graph Paper, Fabric Sample, Sketch Pens	20:80
6	☐ Proctored Monitoring/ Assessment/ Evaluation/ Examinations	Computer, CAD Software, Graph Paper, Fabric Sample, Sketch Pens	20:80
7	☐ 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
TSC/N8401: Taking charge of shift and handing over shift to Circular loom operator (Shuttle type)	Taking charge of shift from Circular loom operator (Shuttle type)	36	56	-	-
	1. come at least 10 - 15 minutes earlier to the work spot	4	6	-	-
	2. Bring the necessary operational tools like J Hook, knife etc	4	6	-	-
	3. Check for the availability of the weft & the condition of the same	4	6	-	-
	4. Enquire with the previous shift operator for running parameters of fabric such as PPM, Mesh, Denier etc	4	6	-	-
	5. Ensure the correct parameters are showing on the loom display	4	6	-	-
	6. Check the condition of the running creels, for cross ends, ends pulling out particularly at the crease or side fold	4	6	-	-
	7. Check the fabric for the running damages like end out, wrong winding, Side slippage, hole in fabric, weft catching, weft lashing in etc	4	6	-	-
	8. Check for the size of the fabric roll & to see whether any indication is there in the cloth rolls	4	6	-	-
	9. Check the cleanliness of the machines & other work areas	2	3	-	-
	10. Check whether any spare/raw material/ tool / fabric/ any other material is under the machines or in the other work areas	1	2	-	-
	11. Question the previous shift operator for any deviation	1	3	-	-
	Handing Over Shift to Circular loom operator (Shuttle type)	4	4	-	-
	12. Hand over the shift to the incoming operator in a proper manner & get clearance from the incoming counterpart before leaving the work spot	1	1	-	-
	13. Convey instruction to the incoming shift operator if any	1	1	-	-
	14. Report to his/ her shift superiors in case of absenteeism of incoming shift operator	1	1	-	-
	15. Report to his/ her shift superior about the quality / production / safety issues/ any other issue faced in his/ her shift	1	1	-	-
	NOS Total	40	60	-	-

Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N8402: Running Circular Loom Shuttle type	Ensure proper running of the loom	32	48	-	-
	1. Do patrol of the allotted looms	4	6	-	-
	2. Check the signal lamp and identify the reason for loom stoppage	4	6	-	-
	3. Attend the loom for warp breakage	4	6	-	-
	4. Ensure the weavers/Spiral knot size is small with minimum tail end	4	6	-	-
	5. Draw the mended warp tape using J hook through Heald wire, Reed ring as per the drawing order	8	12	-	-
	6. Ensure the mended warp tape is passing through Creel Guide, Drop wire/ Tension rod, Maxi drug roller, Comb, Compensator, Heald wire, Reed ring	4	6	-	-
	7. Replace with new Creel bobbin of the same denier for exhaust	4	6	-	-
	Attend to breakages	28	42	-	-
	8. Attend the loom for weft breakage	4	6	-	-
	9. Ensure the weft tape is passing through shuttle guide, magnetic disc	8	12	-	-
	10. Replace with new weft bobbin of the same denier for weft exhaust	4	6	-	-
	11. Ensure the bobbin is fixed firmly inside the shuttle assembly	4	6	-	-
	12. Bring the insertion finger to the front centre to see that there is no gap between the round ceramic & the fell of the fabric	4	6	-	-
	13. Run the loom by pressing inching	4	6	-	-
	NOS Total	60	90	-	-
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N8403: Undertake warp threading in circular loom (Shuttle type)	Creeling and drawing of Tapes in Circular loom	20	30	-	-
	1. Place the full bobbins in the creel stand	2	3	-	-
	2. Place the colour bobbin in their respective peg for production of coloured fabric (Check/Stripe fabric)	2	3	-	-
	3. Draw the tapes through their respective ceramic guides in creel stand and Drop wire/ Tension rod	2	3	-	-

	4. Draw the tapes through the Intake comb through Maxidrag roller in creel zone	1	2	-	-
	5. Draw the tapes through Water tray and sponge roller in creel zone	2	3	-	-
	6. Draw the tapes through small comb via guide rollers creel zone	2	3	-	-
	7. Draw the tapes through Eyelet bow and eyelet plate on loom	2	3	-	-
	8. Draw the tapes through compensator	2	3	-	-
	9. Draw the tapes through heald wire and reed ring based on type of weave like Plain, Leno, Antiskid, Ventilated, etc	2	3	-	-
	10. Draw the tapes through the weave ring and tie up with the previously formed fabric at fabric spreader bracket	1	1	-	-
	11. Run the loom by pressing inching	1	1	-	-
	12. Ensure the formed fabric as per required specification	1	2	-	-
	NOS Total	20	30	-	-
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N8404: Contribute quality weaving in Circular loom (Shuttle type)	Ensure quality production	6	9	-	-
	1. Ensure the running warp tape tension is in required level, adjust if required with the help of fitter	2	3	-	-
	2. Ensure the fabric tension at fabric winding zone is in required level, adjust if required with the help of fitter	2	3	-	-
	3. Ensure the proper working of take up proximity sensor, Magnetic sensor and Colour sensor	2	3	-	-
	Carryout corrective measures	34	51	-	-
	4. Clean the colour sensor at regular intervals for better working	2	3	-	-
	5. Correct the fabric defects immediately like wrong drawing, wrong denting , end out, double end etc.	4	6	-	-
	6. Collect all the tape waste with the waste bag provided	2	3	-	-
	7. Ensure that all the stop motions, preventive mechanisms etc., function properly to avoid fabric defects	4	6	-	-
	8. Double ends have to be removed should report to superiors for any deviation in the same & for any other quality issue	4	6	-	-

	9. Ensure the allotted looms are stopped for a minimum possible down time	4	6	-	-
	10. Check the fabrics for the defects at constant interval	2	3	-	-
	11. Check for the reasons for the frequent warp/ weft breaks and same has to be reported to the mechanics/ fitters/ superiors	4	6	-	-
	12. Report to the supervisor for defective bobbin package	4	6	-	-
	13. Report to the supervisor for fabric damage	4	6	-	-
	NOS Total	40	60	-	-
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N9011: Maintain work area, tools and machines in raffia sector	Maintain the work area, tools and machines	40	60	-	-
	1. handle Polymer materials, machinery, equipment and tools with care and use them in proper way	4	6	-	-
	2. use correct lifting and handling procedures of Polymer bags, Tape bobbins etc.	4	6	-	-
	3. use materials to minimize waste of Polymer Granules, Tapes bobbins etc	4	6	-	-
	4. maintain a clean and hazard free working area inside the Tape plant and circular loom department	4	6	-	-
	5. ensure the maintenance are carried out within agreed schedules for Tape plant/ Circular looms	4	6	-	-
	6. carry out maintenance and/or cleaning within ones responsibility	4	6	-	-
	7. report unsafe conditions like Pressure deviation, Temperature deviation and other dangerous occurrences to the fitter	2	3	-	-
	8. ensure that the correct machine guards are in their place	2	3	-	-
	9. work in a comfortable position with the correct posture while handling Godet rollers, weaving ring etc.	2	3	-	-
	10. use cleaning equipment like brush, air compressor to clean the winding area, loom creels etc	2	3	-	-
	11. clean the quenching tank as per prescribed interval	2	3	-	-
	12. dispose of tape waste in the designated location/ bins	2	3	-	-
	13. store cleaning equipment at allotted place and close the air compressor valve safely after use	2	3	-	-
	14. carry out cleaning of machines according to schedules and limits of	1	1	-	-

	responsibility				
	15. handle Polymer materials, machinery, equipment and tools with care and use them in proper way	1	2	-	-
	NOS Total	40	60	-	-
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N9012: Working in a team in raffia sector	Commitment and trust	4	7	-	-
	1. be accountable to the own role in whole process of Extruding/ Winding/ Weaving etc	2	3	-	-
	2. perform your duty with full responsibility inside the tape plant/ circular loom department	1	2	-	-
	3. be effective and efficient to avoid the tape waste, Fabric waste etc	1	2	-	-
	Communication	7	11	-	-
	4. properly communicate about company policies with colleagues	1	2	-	-
	5. report all problems faced during the process with respective fitter, Spinning plant / Circular loom	2	3	-	-
	6. submit process log report of tape plant in your shift without fail	2	3	-	-
	7. submit daily report of own performance	2	3	-	-
	Adaptability	5	8	-	-
	8. adjust in different work situations	2	3	-	-
	9. give due importance to others point of view	2	3	-	-
	10. avoid conflicting situations	1	2	-	-
	Creative freedom	3	5	-	-
	11. develop new ideas for work procedures	2	3	-	-
	12. improve upon the existing techniques to increase process efficiency	1	2	-	-
	NOS Total	19	31	-	-

Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N9013: Maintain health, safety and security at work place in raffia sector	Comply with health, Safety and security requirements at work	36	54	-	-
	1. comply with health and safety related instructions applicable for the raffia sector	2	3	-	-
	2. use and maintain personal protective equipment such as ear plug, nose mask , head cap etc., as per protocol	2	3	-	-
	3. carry out the activities in extrusion line/ loom with approved guidelines and procedures	2	3	-	-
	4. follow safety methods while handling Heating zones, Melt pump, Breaker plate etc	2	3	-	-
	5. do not exceed the line speed/ Loom speed unsafe for existing condition	2	3	-	-
	6. identify and correct the malfunctions in winders, within limits of responsibility	2	3	-	-
	7. store raw materials and equipment in line with organisational requirements	2	3	-	-
	8. report any service malfunctions that cannot be rectified	2	3	-	-
	9. store materials and equipment in line with organisational requirements	2	3	-	-
	10. safely handle the molten polymer, tapes as per approved protocols	2	3	-	-
	11. minimize health and safety risks to self and others due to own actions	2	3	-	-
	12. seek clarifications, from supervisors or other authorized personnel in case of perceived risks while handling with extruder/ winder/ loom	2	3	-	-
	13. monitor the workplace and work processes for potential risks and threat	2	3	-	-
	14. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned	2	3	-	-
	15. report hazards and potential risks/ threats to supervisors or other authorized personnel inside the Extrusion/ Loom department	2	3	-	-
	16. participate in mock drills/ evacuation procedures organized at the workplace	2	3	-	-
	17. undertake first aid, fire-fighting and emergency response training, if asked to do so	2	3	-	-
	18. take action based on instructions in the event of fire, emergencies or accidents	1	2	-	-
	19. follow organisation procedures for shutdown of Tape plant/ loom and	1	1	-	-

	evacuation when required				
	Recognizing the hazards	2	2	-	-
	20. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry	1	1	-	-
	21. recognise other possible security issues existing in the workplace	1	1	-	-
	Planning the safety techniques	1	1	-	-
	22. recognise different measures to curb the hazards	1	1	-	-
	Implementing the programs	2	2	-	-
	23. communicate the safety plan to colleagues/ trainee workers in the plant department	1	1	-	-
	24. attach disciplinary rules with the implementation	1	1	-	-
	NOS Total	41	59	-	-
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N9014: Comply with industry and organizational requirements in raffia sector	Self development	9	15	-	-
	1. perform own duties effectively in the raffia sector	2	3	-	-
	2. take responsibility for own actions	2	3	-	-
	3. be accountable towards the job role and assigned duties	2	3	-	-
	4. take initiative to minimize the tape waste	2	3	-	-
	5. focus on self-learning and improvement within the various positions in raffia sector	1	3	-	-
	Team work	6	6	-	-
	6. co-ordinate with all the team members and colleagues for effective information sharing	2	2	-	-
	7. communicate politely with co workers	2	2	-	-
	8. avoid conflicts and miscommunication	2	2	-	-
	Organizational standards	5	5	-	-
	9. know the organisational standards	2	2	-	-
	10. implement them in your performance	2	2	-	-
	11. motivate others to follow them	1	1	-	-
	Industry standards	2	2	-	-

	12. know the industry standards	1	1	-	-
	13. align them with organisation standards	1	1	-	-
	NOS Total	22	28	-	-
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
DGT/VSQ/N010 1: Employability Skills	Introduction to Employability Skills	1	1	-	-
	understand the significance of employability skills in meeting the job requirements	-	-	-	-
	Constitutional values – Citizenship	1	1	-	-
	identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices.	-	-	-	-
	Becoming a Professional in the 21st Century	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.	-	-	-	-
	Basic English Skills	2	3	-	-
	speak with others using some basic English phrases or sentences				
	Communication Skills	1	1	-	-
	follow good manners while communicating with others	-	-	-	-
	work with others in a team	-	-	-	-
	Diversity & Inclusion	1	1	-	-
	communicate and behave appropriately with all genders and PwD	-	-	-	-
	report any issues related to sexual harassment	-	-	-	-
	Financial and Legal Literacy	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	-	-	-	-
	Essential Digital Skills	4	6	-	-
	operate digital devices and use its features and applications securely and	-	-	-	-

safely				
use internet and social media platforms securely and safely	-	-	-	-
Entrepreneurship	3	5	-	-
identify and assess opportunities for potential business	-	-	-	-
identify sources for arranging money and associated financial and legal challenges	-	-	-	-
Customer Service	2	2	-	-
identify different types of customers	-	-	-	-
identify customer needs and address them appropriately.	-	-	-	-
follow appropriate hygiene and grooming standards.	-	-	-	-
Getting ready for apprenticeship & Jobs	1	3	-	-
create a basic biodata	-	-	-	-
search for suitable jobs and apply	-	-	-	-
identify and register apprenticeship opportunities as per requirement	-	-	-	-
NOS Total	20	30	-	-

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
AA	Assessment Agency
AB	Awarding Body
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework

Glossary

Term	Description
National Occupational Standards (NOS)	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.
Qualification	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
Qualification File	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.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.