

Tape Plant 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: 3

Submitted By:

Textile Sector Skill Council

Contact Details:

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Section 1: Basic Details

1.	Qualification Name	Tape Plant Operator																			
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-01909-2024-V1.1-TSC	Qualification Name of the existing/previous version: Tape Plant Operator																		
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA NA																			
5.	National Qualification Register (NQR) Code & Version	QG-03-TX-04108-2025-V2-TSC	5. NCrF/NSQF Level: 3																		
6.	Award (Certificate/Diploma/Advance Diploma/ Any Other) (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certificate																			
7.	Brief Description of the Qualification	The Tape plant operator is responsible for running the Tape plant under supervision by maintaining health, safety and security in the raffia industry.																			
8.	Eligibility Criteria for Entry for a Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 10%;">S. No.</th> <th style="width: 50%;">Academic/Skill Qualification (with Specialization - if applicable)</th> <th style="width: 40%;">Relevant Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>• 10th or Equivalent</td> <td>Nil</td> </tr> <tr> <td style="text-align: center;">2</td> <td>• 9th or Equivalent</td> <td>1.5 Years</td> </tr> <tr> <td style="text-align: center;">3</td> <td>• 8th or Equivalent</td> <td>3 Years</td> </tr> <tr> <td style="text-align: center;">4</td> <td>• 5th or Equivalent</td> <td>7.5 Years</td> </tr> <tr> <td style="text-align: center;">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																			

9.	Credits Assigned to this NOS-Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	11 Credits	10. Common Cost Norm Category (I/II/III) (wherever applicable): I														
11.	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"> <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 (Please show Professional and Academic progression)	Fitter - Tape Plant Operator															
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 Tape plant operator	TSC/N8201, V 2.0	Core	3	1.5	15	30			45	40	60			100	13
2	Running Tape Plant line	TSC/N8202, V 2.0	Core	3	3	30	60			90	80	120			200	27
3	Contribute quality extrusion in Tape plant line	TSC/N8203, V 2.0	Core	3	2.5	15	60			75	40	60			100	13
4	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
5	Working in a team in Raffia sector	TSC/N9012, V 2.0	Non Core	3	0.5	5	10			15	19	31			50	7
6	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
7	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
8	Employability Skills	DGT/VSQ/N 0101,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) (as per NCVET guidelines)	- 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/Q8201, v4.0 Tape Plant Operator, Minimum pass percentage 80 percent
2.	Master Trainer's Qualification and experience in the 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
3.	Tools and Equipment Required for the Training	☒ Yes ☐ No (If "Yes", details to be provided in Annexure)
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) (as per NCVET guidelines)	- 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/Q8201, v4.0 Tape Plant Operator, Minimum pass percentage 80 percent
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2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines), (wherever applicable)	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	As per the various performance criteria mentioned in the previous cell, the tape plant operator works in familiar, predictable, and routine situation • 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	As per the various knowledge and understanding criteria mentioned in the previous cell, the tape plant operator requires factual knowledge of field. Hence NSQF Level is 3	NSQF Level 3

	issues within the range of familiar 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.		
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Team readiness & Entrepreneurial 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	As per the various performances, knowledge and skills criteria mentioned in the previous cell, the tape plant operator is able to use language to communicate written or oral, with required clarity, and requires a basic arithmetic and algebraic principle skills. • Hence NSQF Level is 3	NSQF Level 3
Broad Learning Outcomes/ Core Skill	Carry out Range of tasks and may provide range of solutions:	As per the various performance criteria mentioned in the previous cell, the tape plant operator is able to recall and demonstrate practical skill, perform routine and repetitive	NSQF Level 3

	• The candidate must be able to carry out job/ work/ tasks/ /small 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.	skills in narrow range of application, using appropriate rule and tool. • 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 tape plant operator demonstrates responsibility for his own work and learning. All performance criteria mentioned in the qualification pack are responsibilities of a tape plant operator however certain important PCs are depicted here. 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.	Tape plant of cast film type extruder with T- Die and downstream equipment (minimum 75 Extruder)	1
2.	PP/HDPE Polymer Granules	20

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	14	13	12	6	NA. Data Requested from NSDC	NA. Data Requested from NSDC	NA. Data Requested from NSDC	NA. Data Requested from NSDC	-	-	-	-
1	2021	0	0	0	0	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/N8201: Taking charge of shift and handing over shift to Tape Plant operator	Taking charge of shift from Tape Plant operator	28	42	-	-
	1. come at least 10 - 15 minutes earlier to the work spot	4	6	-	-
	2. check for the availability of feed raw materials like Polymer granules, Filler, Additives etc	4	6	-	-
	3. enquire with the previous shift operator for quality issues like tape fibrillation, Filter choking, Melt pump issues etc	4	6	-	-
	4. check the running parameters of tape plant like line Speed, Pump Pressure, Temperature at various zones, roller pressure etc. at Control panel	4	6	-	-
	5. get Production Planning report and Process control log sheet from the Previous shift in charge/ Plant Supervisor	4	6	-	-
	6. question the previous shift operator 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 as well	4	6	-	-
	7. check the cleanliness of the machines at various unit of Tape plant line	4	6	-	-
	Handing Over Shift to Tape Plant operator	12	18	-	-
	8. hand over the shift to the incoming operator in a proper manner & get clearance from the incoming counterpart before leaving the work spot	4	6	-	-
	9. convey instruction to the incoming shift operator if any	2	3	-	-
	10. report to his/ her shift superiors in case of absenteeism of incoming shift operator	4	6	-	-
	11. report to his/ her shift superior about the quality / production / safety issues/ any other issue faced in his/ her shift	2	3	-	-
	NOS Total	40	60	-	-

Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N8202: Running Tape plant line	Prepare raw material for feeding	48	72	-	-
	1. pre - dry the Fillers (CaCo ₃) to remove the Moisture Content using Drier	8	12	-	-
	2. Weigh the Polymers, Fillers, Additives based on the ratio in Production planning with the helper	8	12	-	-
	3. place the Granules inside the drum and do manual mixing	8	12	-	-
	4. place the suction tube inside the drum	8	12	-	-
	5. set the mixing ratio in the control panel in case the Tape plant is provided with Compound Dosing and Mixing Unit (CDMU)	8	12	-	-
	6. ensure the complete availability of polymer, additives, fillers required to run the shift	8	12	-	-
	Ensure proper running of the extrusion plant	32	48	-	-
	7. report to the supervisor in case of raw material requirement based on production planning	8	12	-	-
	8. report to the supervisor in case of any abnormalities, deviation found while Mixing and Feeding	8	12	-	-
	9. ensure the correctness of process parameters frequently through the shift for any deviation in Temperature, Pressure, Stretching ratio etc	8	12	-	-
	10. cut the back winding immediately on the godets to reduce the tape breakage	4	6	-	-
	11. allow the edges to Edge Trim Unit for recycling	4	6	-	-
	NOS Total	80	120	-	-
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N8203: Contribute quality extrusion in	Ensure quality production	40	60	-	-
	1. monitor the tape thickness with dial micro meter	4	6	-	-
	2. check the Die -lip opening using Filler gauge	4	6	-	-
	3. adjust the die-lip opening through die bolt in case of thickness variation	4	6	-	-

Tape Plant line	4. change the screen mesh if mesh is chocked with combinations like 46,60,80,100,120 mesh types	4	6	-	-
	5. check the condition of thermocouple when deviation in temperature of screen changer/ Breaker plate zone	4	6	-	-
	6. set the slitting unit in proper position provided with industrial blade of 0.1 to 0.2 mm thickness	4	6	-	-
	7. change the temperature at Barrel, Die and RPM of Godet to get required denier	4	6	-	-
	8. collect all the tape waste in a waste collection bag	4	6	-	-
	9. ensure no raw material/ cloth/ spare/ tool / any other material is thrown under/ near the machines or in the other work areas	4	6	-	-
	10. perform cleaning and maintenance activity within the limits of responsibility	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 responsibility	1	1	-	-
	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 evacuation when required	1	1	-	-
	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.