

Textile Processing Preparatory 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.	Qualification Name	Textile Processing Preparatory 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-02-TX-01891-2024-V1.1-TSC	Qualification Name of the existing/previous version: Textile Processing Preparatory Operator
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA NA	
5.	National Qualification Register (NQR) Code & Version	QG-02-TX-04094-2025-V2-TSC	6. NCrF/NSQF Level: 2
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	A Textile Processing Preparatory Operator is responsible to do the specified job of pre-treatment of fabric with proper control of parameters to get the desired effect. This job requires the individual to have thorough knowledge of process flow and material flow in a processing mill for fabric production and should know the important functions and operations of machines used in preparatory department of textile processing.	

9.	Eligibility Criteria for Entry for a Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1" data-bbox="747 233 1745 412"> <tr> <th data-bbox="747 233 848 370">S. No.</th> <th data-bbox="848 233 1314 370">Academic/Skill Qualification (with Specialization - if applicable)</th> <th data-bbox="1314 233 1745 370">Relevant Experience (with Specialization - if applicable)</th> </tr> <tr> <td data-bbox="747 370 848 412">1</td> <td data-bbox="848 370 1314 412">Ability to read and write</td> <td data-bbox="1314 370 1745 412">Nil</td> </tr> </table> 18 Years			S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)	1	Ability to read and write	Nil						
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)														
1	Ability to read and write	Nil														
10.	Credits Assigned to this NOS- Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	9 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="1026 1008 1713 1224"> <tr> <th data-bbox="1026 1008 1272 1114">Training Delivery Mode</th> <th data-bbox="1272 1008 1425 1114">Theory (Hours)</th> <th data-bbox="1425 1008 1581 1114">Practical (Hours)</th> <th data-bbox="1581 1008 1713 1114">Total (Hours)</th> </tr> <tr> <td data-bbox="1026 1114 1272 1187">Classroom (offline)</td> <td data-bbox="1272 1114 1425 1187">87</td> <td data-bbox="1425 1114 1581 1187">183</td> <td data-bbox="1581 1114 1713 1187">270</td> </tr> <tr> <td data-bbox="1026 1187 1272 1224">Online</td> <td data-bbox="1272 1187 1425 1224">-</td> <td data-bbox="1425 1187 1581 1224">-</td> <td data-bbox="1581 1187 1713 1224">-</td> </tr> </table> (Refer Blended Learning Annexure for details)			Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)	Classroom (offline)	87	183	270	Online	-	-	-
Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)													
Classroom (offline)	87	183	270													
Online	-	-	-													

14.	Aligned to NCO/ ISCO Code/s (if no code is available mention the same)	NCO-2015/8154.27	
15.	Progression Path After Attaining the Qualification, wherever applicable <i>(Please show Professional and Academic progression)</i>	Assistant Fitter - Processing	
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/N9015 - Follow machine, safety and organizational guidelines in textile sector TSC/N9016 - Follow teamwork, adaptability, and communication guidelines in textile 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. n o	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	Follow machine, safety and organizational guidelines in textile sector	TSC/N9015,V 2.0	Non Core	4	2.5	25	50			75	65	80		50	195	20
2	Follow teamwork, adaptability, and communication guidelines in textile sector	TSC/N9016,V 2.0	Non Core	4	0.5	5	10			15	15	20		10	45	5
3	Employability Skills	DGT/VSQ/N0101, V 1.0	Non Core	2	1	12	18			30	20	30			50	5
Duration (in Hours) / Total Marks						42	78			120	100	130		60	290	30

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					Assessment Marks					
						Th.	Pr.	OJT. Man	OJT. Rec	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (if applicable)
1	Carryout shift change, singeing and desizing activity in the processing preparatory department.	TSC/N5107, V 1.0	Core	2	5	45	105			150	200	410		50	660	70
2	Carryout shift change, continuous bleaching range production in the processing preparatory department	TSC/N5108, V 1.0	Core	2	5	45	105			150	200	410		50	660	70
Duration (in Hours) / Total Marks					10	90	210			300	400	820		100	1320	140

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>	• Ability to read & and write with 5 years of relevant experience (Min 1 year in production + Min 4 years as trainer +) • Grade 8 with two years of (NTC/ NAC) with Successfully passed Trainer Qualification MEP/Q2601, v2.0 – Trainer (VET and Skills), Minimum pass percentage 80 percent and TSC/Q5103, v3.0 Textile Processing Preparatory Operator, Minimum pass percentage 80 percent
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 year 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/Q5103, v3.0 Textile Processing Preparatory Operator, 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: 20
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.	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	Fundamental knowledge - Basic working/ operational knowledge in the area of work. - Understands basic materials, tools, applications in a limited context. - For self-help group member/ micro-entrepreneur basic working knowledge of business activity, raw material, finished product/ service, and local market. - Able to understand and perform repetitive tasks under instructions and supervision. - Understand the basic quality, safety and general hygiene norms. Familiarity with environmental aspects.	A Textile Processing Preparatory Operator carry out process that are repetitive on regular basis understand the fabric being processed & process running on the machine so as to get maximum output with minimum defects giving due importance to safety and environment aspects. The tasks are routine and involves little application of understanding like chemical preparation, attending stoppages or breakdown in the machine, damage to the fabric or machine, carrying out routine cleaning and maintenance activities to ensure that the productivity and quality are maintained. For unprecedented situations, he has to report to the supervisor. Hence NSQF Level is 2.	NSQF Level 2
Professional and Technical Skills/ Expertise/ Professional Knowledge	Limited finite skills - Limited related skills in predefined context. - Performs structured tasks in a limited range of functional roles. - Uses known solutions to familiar problems.	A textile processing preparatory operator understands context of work and quality with respect to process flow and material flow and safety standards in the processing unit. know various defects in the fabric due to yarn, weaving or processing and reasons for various defects in the fabric due to processing & their remedy. Safe working practices to be adopted in	NSQF Level 2

	• Skill to identify and use relevant tools and materials in a limited context of work and quality. • For self-help group members, micro-entrepreneurs working skills for making or manufacturing (handicraft, traditional items, etc) service & marketing etc.	processing unit. Hence NSQF Level is 2	
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Employment readiness • Ability to read and write and do simple computational math – numeracy and literacy. • Receive and transmit written and oral messages/ communication clearly. • Works within a team as assistant • Understanding of safety, hygiene and environment, social, political and religious diversity. • Have broader but basic Employability Skills including basic self-employment/ entrepreneurial Mind-set for mini businesses • Have understanding of use of Financial and Digital literacy, Aadhar and Mobile, digital payments etc.	A textile processing preparatory operator should be able to receive and transmit written and oral messages in local/regional language 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 must comprehend the regulations, natural, social and political environment of a typical processing unit. Hence NSQF Level is 2	NSQF Level 2
Broad Learning Outcomes/Core	Carry out the Predefined tasks	The textile processing preparatory operator assist in professional works like taking	NSQF Level 2

Skill	• The candidate may carry out a job requiring limited range of routine and predictable activities. • Tasks are mostly performed under instructions and supervision • Focus on practice of skill and work, both predefined and new. • For self-help group members, micro-entrepreneurs (JSS) end to end clear understanding of process and delivery. • Understands basic safety and general hygiene norms.	charge and handing over of the shift, patrolling the machine and for ensuring quality production. He requires limited service skill to perform tasks like controlling the various machine operations and preparing the process chemicals, checking the result & comparing with the standard, makes sure the machine is kept clean at all times, before loading, while running & after unloading the fabric. The operator carry out maintenance activities and also maintains neatness at work. Hence NSQF Level is 2	
Responsibility	Assistant • Works mostly under instruction and supervision. • Limited responsibility for delivery and quality of work. • For self-help group members, micro-entrepreneurs (JSS) end to end responsibility of production and marketing in local markets.	The textile processing preparatory operator works under instruction and close supervision to do the specified job of fabric pre-treatment. Know the operations of the machine & the control system / mechanism. The operator is responsible for carrying out specified task and keeps the machine running and contributes in making the workplace healthy, safe and secure and follows the industry & organizational compliance. The Operator has no responsibility for own work and learning. Hence NSQF Level is 2	NSQF Level 2

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.	Singeing & Desizing Machine	1
2.	Fabric	500
3.	Empty Fabric Rolls or Suitable Trolleys	1
4.	Continuous Bleaching Range Machine	1
5.	Fabric	500
6.	Empty Fabric Rolls or Suitable Trolleys	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	North East Development Consortium (NEDC)	Jayanta Baruah	Chief Executive Officer	Guwahati	9864958553	nedc2009@gmail.com	—
2	Uttam Textiles	Hemantbhai	Owner	Surat	9374526010	—	—
3	Durga Processors Pvt Ltd	Dilip Kotadiya	HR Head	Surat	9824160935	hrd durga@dppl.co.in	—
4	Digi Venmanya	Karthik	Head	Attayampatti	7708032166	digivenmanga@gmail.com	—
5	JCT Limited	Ashwani Thapar	General Manager	Phagwara	9876015157	athapar@jctltd.com	—
6	Sri Kannapiran Mills Ltd	G.Gurunathan	General Manager	Sipcot, Perundurai	9865259591	gurunathan.ao@kgfabriks.com	—
7	Matiy Mitra Mills	Shyam Sundar	MD	Erode	8667401256	callshyamsun@gmail.com	—
8	TBL Education (I) Pvt Ltd	Neetika Gupta	National Head	Guwahati	9582941460	Tbl.eduindia@gmail.com	—
9	Valeur Fabtex Pvt Ltd	Harsh Chamaria	Director	New Delhi	9910211484	director@valeurfabtex.com	—
10	MM Weaves,	Ms.Sujatha	Proprietor	Attayampatti	9842196774	weavesmm@gmail.com	—
11	Chanu Creations	Kshetrimayum Indira Devi	Proprietor	Imphal	9821115226	chanucreations.skillindia@gmail.com	—
12	Mohan Spintex India Limited	Ravuri Thandav Krishna	Dy. General Manager, Admin	Place: Mallavalli	9492297269, 9490163798	hrm@mohanspintex.com	—
13	Nitin Spinners Ltd	P.N.Joshi	General Manager, HR	Bhilwara	—	ns1@nitinspinners.com	—
14	Reliance Chemotex	G.S.Rathore	Factory Manager	Udaipur	+91 294 2491489 / 90	udaipur@reliancechemotex.com	—
15	Kumaraguru College of Technology	Dr.G.Ramakrishnan	Professor	Coimbatore	0422-2661171	ramakrishnan.g.ft@kct.ac.in	—
16	Eeshanau Foundation	Chaningleima Oinam	Secretary	Imphal	9856031407 / 8974998624	chaningoinam@gmail.com	—
17	Kb Philanthropy 5	Laishram Monoranjan Singh	CEO	Imphal	9612001798	Kbphilanthropy5@gmail.com	—
18	The Southern India Mills Association	D. Suresh Ananda Kumar	Dy. Secretary General	Coimbatore	9790466668	suresh@simamills.org	—
19	Textile Committee	Dr.K.S.Muralidhara	Jt. Director (RSA)	Mumbai	022 66527523	secy.tc@nic.in	—
20	Individual	G.Somasundaram	Advisor	Bangalore	9343756560	soms28@gmail.com	—

Annexure 4: Training & Employment Details

Year	Estimated Training # of Total Candidates	Estimated training # of Women	Estimated training # of People with Disability
2026	1000	200	NA
2027	1000	200	NA
2028	1000	200	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	30	27	26	13	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	10	9	9	4	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/N9015: Follow machine, safety & organizational guidelines in Textile sector	Maintaining the work area, tools and machines	10	10	-	6
	1. handle materials, machinery, equipment and tools as per standard procedure	1	1	-	1
	2. use appropriate material handling equipment and tools as per standard procedure	1	1	-	1
	3. keep the equipment, machine and work area clean using appropriate cleaning tools as per standard procedure	1	1	-	-
	4. undertake minor routine maintenance of equipment and tools as per standard maintenance procedure	1	1	-	1
	5. maintain record for defective and unsafe equipment and tools	1	1	-	-
	6. verify that machine guards are in place as per standard specifications	1	1	-	1
	7. follow specified ergonomics for the assigned job role in textile sector	1	1	-	-
	8. collect and store worn-out spare parts at specified location	1	1	-	1
	9. report the condition of worn out parts as per standard procedure	2	2	-	1
	Greening and energy conservation in textile sector	7	10	-	6
	10. segregate wastes such as recyclable, non- recyclable, hazardous as per standard protocol	3	4	-	2
	11. optimize usage of material and resources including water, electricity in various tasks	2	3	-	2
	12. switch off the machines and lights when not in use	2	3	-	2
	Health, safety and response to emergencies at textile sector	32	40	-	28
	13. use Personal Protective Equipment (PPEs) like body protector, ear plugs, nose mask, head cap, etc. as per guidelines	2	3	-	2
	14. identify abnormal sounds emanating from faulty or worn out machine parts and take appropriate action	2	3	-	2
	15. avoid dependency on any type of intoxicants	2	3	-	2
	16. maintain social distance as per the instruction at workplace	2	3	-	2

	17. report hazardous material to superiors at workplace	2	3	-	2
	18. use the various appropriate fire extinguishers on different types of fires correctly	2	3	-	2
	19. follow the specified steps in case of electricity failure	2	3	-	2
	20. lift heavy objects using correct lifting procedures	2	3	-	2
	21. recall emergency exits, safe spots, etc. of workplace	2	3	-	2
	22. practice mock drills and evacuation procedures organized by industry	2	3	-	1
	23. assist others to reach to safe spots in emergency situations	2	3	-	1
	24. provide basic first aid for injury to peers and report to superiors	2	2	-	1
	25. interpret different signs, alarms and take action appropriately	2	2	-	1
	26. follow the guidelines while working in hazards atmosphere	2	1	-	2
	27. assist in designing the safety plans with peers and superiors	2	1	-	2
	28. follow the approved safety plans at workplace	2	1	-	2
	Organizational standards and policies	16	20	-	10
	29. perform assigned duties as per organization's protocol within scheduled time period	2	3	-	2
	30. follow organization policies, quality standards, rules and regulations for working in textile sector	2	4	-	1
	31. motivate colleagues to follow operational guidelines of organization	2	3	-	1
	32. wear specified uniform and follow etiquette as per standard guidelines for the textile sector	3	3	-	2
	33. maintain hygienic working atmosphere as per protocol of the textile sector	3	4	-	2
	34. submit lost and found articles as per standard protocol	4	3	-	2
	NOS Total	65	80	-	50
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N9016. Follow	Teamwork, trust and communication	10	15	-	5
	1. contribute to create a positive work environment in the team	1	1	-	-

teamwork, adaptability and communication guidelines in Textile sector	2. carry out tasks as per instructions received from superiors	1	1	-	1
	3. contribute to team work as per allocated responsibility to complete the task by using appropriate tools and methods	1	1	-	-
	4. build trust with team mates and superiors	1	2	-	-
	5. implement the ideas after superior's approval at work place	-	1	-	-
	6. communicate clearly with the team members as per standard protocol	1	1	-	1
	7. use suggested hand signs, vocal sound signals to convey the information in the production area	-	1	-	-
	8. listen effectively to the ideas and concerns of the peers	-	1	-	-
	9. use correct and respectful terms while communicating as per industry policy	1	1	-	1
	10. express views proactively and effectively	1	1	-	-
	11. make efforts to resolve difference of opinion with superiors and team members	1	1	-	1
	12. report to superior for problems identified in assigned duty	1	1	-	-
	13. report the daily performance to superior in prescribed manner and formats	1	2	-	1
	Adaptability	5	5	-	5
	14. adapt to flexible work environment for the assigned task	1	1	-	1
	15. adapt to work with various members of different ethnicity, gender and PwD without biases	1	1	-	1
	16. consider opinions of colleagues, fitters, superiors for the assigned task	1	1	-	1
	17. plan the work-routine within the limits of the responsibility	1	1	-	1
	18. adopt new ideas after due approval from superior for improving the productivity	1	1	-	1
	NOS Total	15	20	-	10
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Elective 1 - TSC/N5107: Carryout shift change,	Taking charge of shift from Singeing & desizing machine operator	9	10		11
	1.ensure to bring the necessary operational tools to the department	1	1	-	2

singeing and desizing activity in the processing preparatory department	2.come at least 10 - 15 minutes earlier to the work place and meet the previous shift operator and discuss with him/ her regarding the lot and quality changes, any issues faced by them with respect to the quality, production, spare, safety or any other specific instruction etc.	1	1	-	1
	3.understand the fabric being processed and process running on the machine	1	1	-	1
	4.ensure the technical details are mentioned on the job card displayed on the machine	1	1	-	1
	5.check for the availability of the spare trolley / batching trolley for unloading the fabric	1	1	-	1
	6.ensure that the next batch to be processed is ready and placed near the machine	1	1	-	1
	7.ensure the required chemicals are weighed and prepared for the next process	1	1	-	1
	8.check the cleanliness of the machines and other work areas	-	1	-	1
	9.Obtain information from the previous shift operator for any deviation in the above and bring the same to the knowledge of the shift superior as well as that of the previous shift.	1	1	-	1
	10.follow the process to take charge of the shift from the outgoing operator in a proper manner	1	1	-	1
	Handing over shift to Singeing & desizing machine operator	9	10		11
	11.ensure in providing the details regarding fabric quality as well as the process running on the machine	2	2	-	2
	12.provide all relevant information regarding the stoppages or breakdown in the machine, any damage to the fabric or machine.	1	1	-	2
	13.get clearance from the incoming counterpart before leaving the work area	1	1	-	1
	14.report to your shift superiors as well as that of the incoming shift operator in case your counterpart doesn't report for the incoming shift	1	1	-	1

15.report to your shift superior about the quality / production / safety issues/ any other issue faced in your shift and leave the department only after getting necessary clearance	2	2	-	2
16.collect the wastes from waste collection bags, weigh them and transport to storage area	1	1	-	1
17.ensure the work spot is clean at the time of takeover	1	2	-	2
Carry out preparatory activities for operations in the machine	50	110		8
18.obtain clear instructions from the supervisor and understand the tasks mentioned in the work order	8	18	-	1
19.follow standard procedure to clean the machine properly including guide rolls, fabric spreader, tensioning rolls, burners, impregnation trough, squeezing& quenching rollers	8	18	-	1
20.follow proper technique to feed the fabric evenly, spread from the batch or trolley, using J box for continuous operation	8	18	-	1
21.follow the process to feed desizing chemicals in the trough and adjust the mangle pressure	8	18	-	1
22.ensure all safety devices are functioning properly including exhaust system	8	18	-	1
23.take the fabric out from the other end of the machine on a batching device or a trolley using proper tension while batching	10	20	-	3
Operate the machine for specified tasks as per Work Order	50	110	-	5
24.set various parameters such as the flame width according to the width of the fabric to be singed,	7	18	-	1
25.set the distance between flame burner and fabric,	7	18	-	1
26.set the flame intensity according to the fabric structure and machine speed	7	18	-	1
27.set the drain temperature of water-cooled rollers	7	18	-	-
28.check that the fabric is evenly and uniformly dried before singeing	7	12	-	1
29.verify that the exhaust system is working properly	7	13	-	-
30.ensure all safety controls are in good working condition	8	13	-	1
Clean the machine on a regular basis and carryout preventive maintenance activities	50	110	-	5

	31.ensure the machine is kept clean at all times, before loading, while running and after unloading the fabric	13	28	-	2
	32.follow the preventive maintenance schedule & ensure the machine is running smoothly	13	28	-	1
	33.check that all controls are functioning properly	12	27	-	1
	34.ensure the right quality of water, steam and air is available	12	27	-	1
	Preparing the desizing chemicals	18	30		5
	35.dissolving and mixing the desizing chemicals as per the recipe	4	7	-	1
	36.adjust the pH and temperature of the desizing solution	4	7	-	1
	37.feed the solution to the machine tank during the process	5	8	-	1
	38.check the temperature, pH and reaction time in the desizing chamber	5	8	-	2
	Checking the result & comparing with the standards	14	30		5
	35.cut the sample after desizing	5	10	-	2
	36.ensure to dry the sample and check the size content in the fabric	5	10	-	2
	37.perform necessary comparison of the results with the standard	4	10	-	1
	NOS Total	200	410		50
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Elective 2 - TSC/N5108: Carryout shift change, continuous bleaching range production in the processing preparatory department	Taking charge of shift from Continuous bleaching range operator	9	10		11
	1. come at least 10 - 15 minutes earlier to the work spot	-	-	-	1
	2. bring the necessary operational tools to the department	1	1	-	1
	3. meet the previous shift operator and discuss with him/ her regarding the issues faced by them with respect to the quality, production, spare, safety or any other specific instruction etc.	1	1	-	1
	4. understand the fabric being processed & process running on the machine	1	1	-	1
	5. ensure the technical details are mentioned on the job card display on the machine	1	1	-	1

6. check for the availability of the spare trolley for unloading the fabric	1	1	-	1
7. check the next batch to be processed is ready near the machine	-	-	-	-
8. ensure the required chemicals are already weighed & prepared	-	1	-	1
9. check the cleanliness of the machines & other work areas	1	1	-	1
10. check whether any spare/raw material/ tool / yarn / any other materials are thrown under the machines or in the other work areas	-	-	-	-
11. 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	1	1	-	1
12. ensure the wastes collection boxes are empty while taking charge of shift	1	1	-	1
13. take over the shift from the outgoing Continuous bleaching range operator in a proper manner	1	1	-	1
Handing over shift to Continuous bleaching range operator	9	10		11
14. ensure in providing the details regarding fabric quality & the process running on the machine	-	-	-	1
15. to provide all relevant information regarding the stoppages or breakdown in the machine, any damage to the fabric or machine	1	1	-	1
16. ensure the empty trolley is near the machine for unloading the fabric	1	1	-	1
17. ensure the next lot to be processed is ready near the machine already stitched & arranged properly	1	1	-	1
18. ensure the required chemicals for the next lot or next process are weighed & prepared	1	1	-	1
19. get clearance from the incoming counterpart before leaving the work spot	1	1	-	1
20. report to his/ her shift superiors as well as that of the incoming shift operator in case his/ her counterpart doesn't	1	1	-	1

report for the incoming shift				
21. ensure, the shift has to be properly handed over to the incoming shift operator	1	1	-	1
22. report to his/ her shift superior about the quality / production / safety issues/ any other issue faced in his/her shift and should leave the department only after getting concurrence for the same from his/ her superiors	-	1	-	1
23. collect the wastes from waste collection bags, weigh them and transport to storage area	1	1	-	1
24. ensure the work spot is clean	1	1	-	1
Carry out preparatory activities for operations of the machine	50	110		10
1. understand the task mentioned in the work order	-	-	-	-
2. ensure that the machine and its working area is clean	5	10	-	1
3. clean the impregnator rolls & trough properly	5	10	-	1
4. Ensure the suction slit is properly cleaned & free of any lint or loose threads	5	10	-	1
5. clean all guide rolls in the reaction chambers & washing units	5	10	-	1
6. ensure all guide rolls are free moving	5	10	-	1
7. feed the fabric from the batch in the center of the machine	-	-	-	-
8. ensure that all controls are working properly	5	10	-	1
9. ensure fabric is crease-less and evenly fed onto the machine	5	10	-	1
10. open steam valve & drain any condensate from the line	5	10	-	1
11. Ensure good quality of steam & air pressure is available	5	10	-	1
12. Ensure the safety devices are functioning properly	-	-	-	-
13. Ensure to use personal protective equipments such as mask, gloves, ear plugs & gum boots	5	10	-	1
Operating the machine for specified tasks as per Work Order	50	110		8
14. know the operations of the machine	3	6	-	-
15. read & understand the process being followed to do the task	3	5	-	1
16. keep even tension on fabric throughout the process	3	5	-	-

17. keep optimum pressure of the squeezer rolls to get good results	3	5	-	-
18. set the required temp in all chambers	3	6	-	-
19. open the steam valves & drain the condensate in all compartments	3	5	-	1
20. dispense the chemicals in the mixing tank	3	5	-	-
21. mix the chemicals properly & feed into the impregnator	3	5	-	1
22. start the machine & take out fabric either on batch	3	5	-	-
23. set the impregnator roller pressure to the optimum	3	5	-	-
24. ensure the wiper roller are functioning properly	3	5	-	1
25. ensure proper functioning of dosing pump & spraying of chemicals	3	6	-	-
26. check that all control functions are working properly	3	5	-	-
27. check ph& temp & other parameters in all compartments	3	5	-	1
28. remove the air from the steamer	3	5	-	-
29. set the machine speed & dwell time according to the fabric quality	-	5	-	-
30. set the temp in all washing chambers	1	6	-	1
31. ensuring proper functioning of flow meter & level controller	1	5	-	-
32. set the drying temp of all drying cylinders	1	5	-	1
33. ensure proper fabric batching tension for even & creaseless fabric winding	1	5	-	-
34. Ensure that all safety controls are functioning properly	1	6	-	1
Clean the machine on a regular basis and carryout preventive maintenance activities	41	85		5
35. keep the machine clean at all times	6	12	-	1
36. follow the preventive maintenance schedule & ensure the machine is running smoothly	6	13	-	1
37. check that all controls are functioning properly	6	12	-	1
38. ensure enough supply of utilities such as water, air & steam for proper functioning of machine	6	12	-	-

	39. stop the machine in case of any abnormal sound & report the matter to supervisor or concerned person	6	12	-	1
	40. check for any leakages of water, steam or air	6	12	-	-
	41. Check steam, water and air pressure	5	12	-	1
	Taking out the sample after Bleaching & comparing it with the standard	41	85		5
	1. taking out the sample after bleaching near the first joint	8	17	-	1
	2. compare the sample with the standard	8	17	-	1
	3. check the sample for absorbency	8	17	-	1
	4. check the sample for whiteness index	8	17	-	1
	5. take the sample to your supervisor if the sample is not matching to the standard for decision	9	17	-	1
	NOS Total	200	410		50
	DGT/VSQ/N0101 – 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.