

Shuttleless Loom 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	Shuttleless Loom Operator	
2.	Sector/s	Textile & Handlooms	
3.	Type of Qualification <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Has Electives/ Options <input type="checkbox"/> OEM	NQR Code & version of the existing /previous qualification: 2022/TEXT/TSC/05312	Qualification Name of the existing/previous version: Shuttleless Loom Operator
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA NA	
5.	National Qualification Register (NQR) Code & Version	QG-02-TX-01942-2024-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	Shuttleless loom operator is a job-role in the weaving department of a textile mill for carrying out weaving activity in shuttleless loom efficiently to get maximum output with minimum defects, giving due importance to safety and environmental aspects. The operator should be able to start the loom, mend broken ends and picks activities to produce defect-free fabrics using shuttleless loom.	

9.	Eligibility Criteria for Entry for a Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1" data-bbox="802 233 1803 412"> <tr> <th data-bbox="802 233 911 370">S. No.</th><th data-bbox="911 233 1373 370">Academic/Skill Qualification (with Specialization - if applicable)</th><th data-bbox="1373 233 1803 370">Relevant Experience (with Specialization - if applicable)</th></tr> <tr> <td data-bbox="802 370 911 412">1</td><td data-bbox="911 370 1373 412">Ability to read and write</td><td data-bbox="1373 370 1803 412">Nil</td></tr> </table> <p data-bbox="802 483 947 516">18 Years</p>			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 <i>(as per National Credit Framework (NCrF))</i>	11 Credits	11. Common Cost Norm Category (I/II/III) <i>(wherever applicable): I</i>																									
12.	Any Licensing Requirements for Undertaking Training on This Qualification	Not Applicable																										
13.	Training Duration by Modes of Training Delivery <i>(Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</i>	<p data-bbox="848 813 1394 846"><input checked="" type="checkbox"/> Offline Only <input type="checkbox"/> Online Only <input type="checkbox"/> Blended</p> <table border="1" data-bbox="814 911 2018 1224"> <tr> <th data-bbox="814 911 1058 1019">Training Delivery Mode</th><th data-bbox="1058 911 1377 943">Theory (Hours)</th><th data-bbox="1377 911 1711 943">Practical (Hours)</th><th data-bbox="1711 911 2018 943">Total (Hours)</th></tr> <tr> <td data-bbox="814 1019 1058 1187" rowspan="5">Classroom (offline)</td><td data-bbox="1058 1019 1377 1052">65</td><td data-bbox="1377 1019 1711 1052">175</td><td data-bbox="1711 1019 2018 1052">240</td></tr> <tr> <td data-bbox="1058 1052 1377 1084">Elective 1 - 30</td><td data-bbox="1377 1052 1711 1084">Elective 1 - 60</td><td data-bbox="1711 1052 2018 1084">Elective 1 - 90</td></tr> <tr> <td data-bbox="1058 1084 1377 1117">Elective 2 - 30</td><td data-bbox="1377 1084 1711 1117">Elective 2 - 60</td><td data-bbox="1711 1084 2018 1117">Elective 2 - 90</td></tr> <tr> <td data-bbox="1058 1117 1377 1149">Elective 3 - 30</td><td data-bbox="1377 1117 1711 1149">Elective 3 - 60</td><td data-bbox="1711 1117 2018 1149">Elective 3 - 90</td></tr> <tr> <td data-bbox="1058 1149 1377 1182">Elective 4 - 30</td><td data-bbox="1377 1149 1711 1182">Elective 4 - 60</td><td data-bbox="1711 1149 2018 1182">Elective 4 - 90</td></tr> <tr> <td data-bbox="814 1187 1058 1224">Online</td><td data-bbox="1058 1187 1377 1224">-</td><td data-bbox="1377 1187 1711 1224">-</td><td data-bbox="1711 1187 2018 1224">-</td></tr> </table> <p data-bbox="814 1256 1356 1289"><i>(Refer Blended Learning Annexure for details)</i></p>			Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)	Classroom (offline)	65	175	240	Elective 1 - 30	Elective 1 - 60	Elective 1 - 90	Elective 2 - 30	Elective 2 - 60	Elective 2 - 90	Elective 3 - 30	Elective 3 - 60	Elective 3 - 90	Elective 4 - 30	Elective 4 - 60	Elective 4 - 90	Online	-	-	-
Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)																									
Classroom (offline)	65	175	240																									
	Elective 1 - 30	Elective 1 - 60	Elective 1 - 90																									
	Elective 2 - 30	Elective 2 - 60	Elective 2 - 90																									
	Elective 3 - 30	Elective 3 - 60	Elective 3 - 90																									
	Elective 4 - 30	Elective 4 - 60	Elective 4 - 90																									
Online	-	-	-																									

14.	Aligned to NCO/ ISCO Code/s (if no code is available mention the same)	NCO-2015/8152.99	
15.	Progression Path After Attaining the Qualification, wherever applicable <i>(Please show Professional and Academic progression)</i>	Assistant Fitter - Weaving	
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 <input checked="" type="checkbox"/> No <input type="checkbox"/> URLs of similar Qualifications:	
18.	Is the NOS Amenable to Persons with Disability	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Colleges <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: 31.01.2024	24. Validity Duration: 3 Years	25. Next Review Date: 31.01.2027

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

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

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

S. no	NOS Module Name	NOS/Module Code & Version (if applicable)	Core/ Non Core	NCrF/ NSQF Level	Credit as per NCrF	Training Duration					Assessment Marks					
						Th.	Pr.	OJT. Man	OJT. Rec	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (if applicable)
1	Taking charge of shift and handing over shift to operator – shuttleless loom	TSC/N2222,V 2.0	Core	2	1	8	22			30	24	54			78	8
2	Operate the shuttleless loom	TSC/N2223,V 2.0	Core	2	3	15	75			90	108	252			360	38
3	Follow machine, safety and organizational guidelines in textile sector	TSC/N9015,V 3.0	Non Core	3	2.5	25	50			75	65	80		50	195	20
4	Follow teamwork, adaptability, and communication guidelines in textile sector	TSC/N9016,V 3.0	Non Core	3	0.5	5	10			15	15	20		10	45	5
5	Employability Skills	DGT/VSQ/N0101, V 1.0	Non Core	3	1	12	18			30	20	30			50	5
Duration (in Hours) / Total Marks					7.5	65	175			240	232	436		60	728	76

Elective NOS/s:

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	Execute loom controls and settings – Airjet Loom	TSC/N2224,V 2.0	Core	2	3	30	60			90	20	30			50	24
2	Execute loom controls and settings – Rapier Loom	TSC/N2225,V 2.0	Core	2	3	30	60			90	66	156			222	24
3	Execute loom controls and settings – Waterjet Loom	TSC/N2226,V 2.0	Core	2	3	30	60			90	66	156			222	24
4	Execute loom controls and settings – Projectile Loom	TSC/N2227,V 2.0	Core	2	3	30	60			90	66	156			222	24
Duration (in Hours) / Total Marks					12	120	240			360	218	498		0	716	96

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%**

(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>	<ul style="list-style-type: none"> • Ability to read & and write with 5 years of relevant experience (Min 1 year in production + Min 4 years as trainer (or) • Grade 8 with two years of (NTC/ NAC) with Successfully passed Trainer Qualification MEP/Q2601, v2.0– Trainer, Minimum pass percentage 80 percent and TSC/Q2211, v3.0 Shuttleless loom Operator, 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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>	<ul style="list-style-type: none"> • 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, Minimum pass percentage 80 percent and TSC/Q2211, v2.0 Shuttleless Loom 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) <i>(as per</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

	NCVET guidelines)	
4.	Assessment Mode (Specify the assessment mode)	Offline
5.	Tools and Equipment Required for Assessment	<input type="checkbox"/> Same as for training <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: 10
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 <ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • This operator possesses knowledge involving a defined range of standard procedures employed in routine contexts with predictable routine work involved in a typical weaving unit. • The operator must come at least 10 - 15 minutes earlier to the work spot, he must understand the basic concept of timely delivery and Quality. • bring the necessary operational tools to the department • meet the previous shift operator and discuss with him/ her regarding the issues faced by them with respect to the quality or production, spare, safety or any other specific instruction etc.he must be able to interpret the available information & communicate the same. • Must have basic knowledge of collecting and organizing information for problem identification and solution like monitor the functioning of primary, secondary and tertiary motions of the shuttleless loom 	NSQF Level 2

		<ul style="list-style-type: none"> • Uses limited discretion and judgement over a range of known responses to familiar problems like attending warp breaks, attending weft breaks and feed weft yarn in accumulator as per weaving plan. • Understands the basic financial and handle materials, machinery, equipment and tools with care and use them in the correct way. 	
Professional and Technical Skills/ Expertise/ Professional Knowledge	Limited finite skills <ul style="list-style-type: none"> • Limited related skills in predefined context. • Performs structured tasks in a limited range of functional roles. • Uses known solutions to familiar problems. • 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. 	<ul style="list-style-type: none"> • A Shuttleless loom operator should have a range of skills and technical capabilities about standard operating procedures with respect to process flow and material flow and safety standards in the weaving unit. • The ability to gain, and where relevant apply a range of knowledge, skills and understanding like verifying that all the stop motions, indication lamps, preventive mechanisms, controls, etc. are functioning as per the requirements • Must possess skills to identify the relevant materials like knowledge of different types of fabric, design, types of yarns, different types of shuttleless weaving machines and various weaving activities • Has the required skills for Identification of the problem and issues within the range of familiar 	NSQF Level 2

		<p>contexts and generate possible solution like remedies of various types of fabric defects and various types of shedding mechanism and working principle</p> <ul style="list-style-type: none"> • Skills to identify the relevant tools and materials in a given context like different types of design and their appearance on surface for fabric formation • Must possesses operational knowledge and understanding of the work/ job like different types of yarn used in weaving operation • Must have skills to deliver job/work with reasonable precision like importance of material handling and types of material handling equipment used and knowledge of waste collection system & equipment used. 	
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Employment readiness <ul style="list-style-type: none"> • 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, 	<ul style="list-style-type: none"> • A Shuttleless loom operator must be working as a member of a team/ within a team and performing activities like taking charge and handing over of the shift, patrolling the machine ensuring quality production. • Basic knowledge of complete product & process flow in the weaving operation 	NSQF Level 2

	<p>social, political and religious diversity.</p> <ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Must possess good skills in written and oral communication with some clarity, basic knowledge of language to support such communication like documentation and reporting formats • An operator must have intermediate literacy and numeracy skills to write clear and short sentences for making daily work report, write grievance complaint application, comprehends written instructions, and communicates with the supervisor and others appropriately • Can use digital tools, has basic financial and digital literacy, Aadhar and Mobile. Must be able to adapt the new innovations in the existing machinery. • Must have broader Employability Skills including self-employment and mini- entrepreneurship skills creating job for more than 1 person. • The operator applies basic arithmetic functions to assess the SOPs of the weaving machine and to execute production based calculations. 	
Broad Learning Outcomes/ Core Skill	<p>Carry out the Predefined tasks</p> <ul style="list-style-type: none"> • The candidate may carry out a job requiring limited range of routine and predictable activities. 	<ul style="list-style-type: none"> • The operator should be able to perform practical skills for routine operations like warp and weft yarn mending, fabric quality assessment, operate the shuttleless loom and manage the 	NSQF Level 2

	<ul style="list-style-type: none">• 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.	<p>allotted loom control using prescribed tools and equipment.</p> <ul style="list-style-type: none">• The operator must focus on range of application of standard procedures or operations in production/ services like identifying the real cause of a problem and applies problem-solving approach to get the best suitable solution, refers defects to the supervisor and seeks clarification on problems from others.• The operator must perform tasks by himself and require little instructions and supervision like plans and manages work routine based on instructions from supervisor, attends various programs/meetings, provides suggestions in interest of the company, extends voluntary support wherever required• Understands all safety & general hygiene norms and environmental aspects, together with risks like comprehending the regulations, natural, social and political environment of a typical spinning unit.• He must be able to identify/ anticipate the problems and possible range of solutions in production/ services like procedures for carrying out	
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		preventive maintenance activities and proper material handling of cleaning equipment.	
Responsibility	Assistant <ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • The operator must take responsibility for delivery and quality of own work and tangible output like meeting the next shift operator-shuttle loom and discuss with him regarding quality, production, spare, safety or any other specific instruction or any issues faced by them etc. • At level 3.0 the candidate works as a skilled worker/ technician and perform tasks like handover records and report the abnormalities in shuttleless loom shed to loom fitter • He must take work from the helpers or assistants and collaboratively work with junior technician to keep the equipment/machine and work area clean using appropriate cleaning equipment / tools as per defined standard procedure • Must be able to assist in the planning of the routine and predictable tasks like follow organization policies, quality standards, rules & regulations for working in textile sector and maintaining the work area, tools and machines. 	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.	Shuttle-Less Loom - Airjet	2
2.	Weft yarn package	1
3.	Empty Fabric Rolls	1
4.	Full Warp beam	1
5.	Shuttle-Less Loom - Rapier	2
6.	Weft yarn package	1
7.	Empty Fabric Rolls	1
8.	Full Warp beam	1
9.	Shuttle-Less Loom- Projectile	2
10.	Weft yarn package	1
11.	Empty Fabric Rolls	1
12.	Full Warp beam	1
13.	Shuttle-Less Loom - Waterjet	2
14.	Weft yarn package	1
15.	Empty Fabric Rolls	1
16.	Full Warp beam	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 · N o	Organizati on Name	Representati ve Name	Designatio n	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	KG Denims Ltd.	k. Soundarajan	Manager	Tamil Nadu	9976112010	soundarajan.hrd@kgdenim.in	
2	Shri Kannapiran mills limited, Unit : KG Fabriks	R. Arjunan	Manufacturing Manager	Erode	9942243227	arjunan.pm@kgfabriks.com	
3	K.K.P. Spinning Mills Pvt Ltd.	D. Balasubramanian	General Manager	Tamil Nadu	9585515066	spgfm@kkpindia.com	
4	Deesan Tex Fab Private limited	Laxman C. Patil	General Manager	maharashtra	9766605741	lcpatil@deesantex.in	
5	Ahmad Fabrics	Mohammad Ahmed	owner	tanda	9044023035		
6	Akhtar Textile	Mohammad Akhtar	owner	tanda	6306696720		
7	shakeel Textiles	shakeel ahmad	owner	Tanda	9838955507		
8	Shri Ram Khadi Bhandar	Ranjiv Sinha		meerut	9219510550		
9	SITRA	k. Gopinath	Special Officer	Coimbatore	0422- 4215368	wuq@sitra.org.in	
10	The Southern India Mills Association	D K Selvaraju	Secretary General	Coimbatore	04224225333	info@simamills.org	

Annexure 4: Training & Employment Details

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

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

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
2	2022	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	NA	NA	NA	NA	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 . N o .	Select the Components of the NOS	List Recommended Tools – for all Selected Components	Offlin e: Onli ne Ratio
1	<input type="checkbox"/> Theory/ Lectures - Imparting theoretical and conceptual knowledge	Computer, CAD Software, Graph Paper, Fabric Sample, Sketch Pens	20:80
2	<input type="checkbox"/> Imparting Soft Skills, Life Skills and Employability Skills /Mentorship to Learners	Computer, Projector	20:80
3	<input type="checkbox"/> Showing Practical Demonstrations to the learners	Computer, Projector	20:80
4	<input type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	Computer, Projector	20:80
5	<input type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice	Computer, CAD Software, Graph Paper, Fabric Sample, Sketch Pens	20:80
6	<input type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations	Computer, CAD Software, Graph Paper, Fabric Sample, Sketch Pens	20:80
7	<input type="checkbox"/> On the Job Training (OJT)/ Project Work Internship/ Candidate Training	Computer, CAD Software, Graph Paper, Fabric Sample, Sketch Pens	20:80

Annexure 6: Detailed Assessment Criteria

Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N2222: Taking charge of shift and handing over shift to operator - shuttleless loom	Taking charge of shift from previous loom operator	12	27	-	-
	PC1. report for duty at least 15-20 minutes earlier than scheduled time to take stock of necessary operational tools, lot and quality changes	-	-	-	-
	PC2. take a quick round of the allotted shuttleless looms with previous shift operator and discuss the issues faced related to quality, production, spares, fabric defects, safety or any other specific instructions, etc.	-	-	-	-
	PC3. get complete information on type and specifications of fabric being and to be produced for allocated shuttleless looms	-	-	-	-
	PC4. verify the technical details mentioned in the shuttleless loom card or display board of the loom and verify with the counterpart that the same are running on the allotted looms	-	-	-	-

PC5. ensure for the availability and the condition of weft cones and as per the quality and quantity mentioned in the loom card	-	-	-	-
PC6. inspect running beams for cross ends, ends pulling out, defective selvages, etc.	-	-	-	-
PC7. check the status of running beams and verify the availability of warp beams against exhausting beams	-	-	-	-
PC8. examine the size of the cloth rollers and plan their doffing schedule	-	-	-	-
PC9. verify the functioning of the allotted shuttleless looms, their parts and the loom mechanisms	-	-	-	-
PC10. ensure that the waste collection boxes are empty and labeled	-	-	-	-
PC11. check the cleanliness of the machines and other work areas and observe if any spare part, raw material or tool, etc. are lying near looms and report anomalies to both shift superiors	-	-	-	-
PC12. assist the supervisor to prepare the shift handover report as per the standard protocol	-	-	-	-

	PC13. assist the supervisor to calculate shuttleless loom production, efficiency percentage, etc.	-	-	-	-
	Handing over the shift to next shift loom operator	12	27	-	-
	PC14. hand over the shift to- and get clearance from, the incoming shift operator as per standard procedure	-	-	-	-
	PC15. provide all relevant information and data on allotted looms related to fabric production and planning, fabric defects, loom breakdowns, spare parts replacement and amount of waste generation, etc.	-	-	-	-
	PC16. report to both incoming and outgoing shift superiors if the counterpart doesn't report for duties	-	-	-	-
	PC17. inform both shift superiors and get their suggestions for any miscommunication or misunderstanding on production instructions	-	-	-	-
	PC18. submit the data to the shift superior about the quality, production, safety issues and any other issues faced in the shift	-	-	-	-
	PC19. get concurrence from the supervisor before leaving the shuttleless loom production department	-	-	-	-

	PC20. collect the waste from waste collection bags, weigh them and dispose-off at the specified place	-	-	-	-
	PC21. ensure that the work spot is clean as per the standard checklist	-	-	-	-
	NOS Total	24	54	-	-
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N2223: Operate the shuttleless loom	Operate the shuttleless loom	27	63	-	-
	PC1. start and stop the shuttleless loom including inching and fast running	-	-	-	-
	PC2. check the machine display at specified intervals for technical data, production data and other information and observe the discrepancies, if any	-	-	-	-
	PC3. perform cleaning of the looms and work area as per daily schedule	-	-	-	-
	PC4. monitor the functioning of primary, secondary and tertiary motions of the shuttleless loom	-	-	-	-
	PC5. verify that all the stop motions, indication lamps, preventive mechanisms, controls, etc. are functioning as per the requirements	-	-	-	-
	PC6. verify that all shuttleless loom safety covers are in place	-	-	-	-
	PC7. identify the reasons for loom stoppages according to indicator lights	-	-	-	-

PC8. stop the shuttleless loom using emergency stop button	-	-	-	-
PC9. assist the knotters during sort change on the allotted looms as per the standards	-	-	-	-
PC10. check the knotted loom for knotting quality and remove double ends as per the limits of responsibility	-	-	-	-
PC11. assist the supervisor to maintain knotting entry with the warp style details such as count, ends, length, etc.	-	-	-	-
PC12. check for the availability of the weft cones and check the condition of the same	-	-	-	-
Repair the yarn breaks	27	63	-	-
PC13. ensure correct quality of thrums are available for attending warp breakages	-	-	-	-
PC14. maintain prescribed size of the catch cord and the selvedge	-	-	-	-
PC15. maintain catch cord ends as per the standard requirements	-	-	-	-
PC16. draw selvedge ends as per the type of selvedge such as plain selvedge, tape selvedge, leno selvedge, etc.	-	-	-	-
PC17. tie weaver's knot as per standard method	-	-	-	-

PC18. adjust 'take-up' and 'let-off' functions of shuttleless loom to maintain required tension in the warp sheet as per the weave requirement	-	-	-	-
PC19. identify the warp end breakages using prescribed technique	-	-	-	-
PC20. repair the warp breaks within defined time limit for single and multiple breaks at the warp sheet	-	-	-	-
PC21. identify reason for the frequent breakages and get assistance, if required, from fitters or supervisor	-	-	-	-
PC22. locate and repair weft breaks as per the standard method using required tools such as weft wire	-	-	-	-
PC23. locate the last pick inserted at the fell of the cloth by ensuring proper pick finding	-	-	-	-
PC24. tie the tail end of running weft yarn package with the outer end of reserve package as per the guidelines	-	-	-	-
PC25. ensure judicious usage of weft yarn, without giving room for wastage in the shuttleless loom department	-	-	-	-
Contribute to quality and productivity in shuttleless loom weaving	27	63	-	-

	PC26. unweave the float and restart the loom without starting mark and weft crack	-	-	-	-
	PC27. attend to loom stoppages as per the priority with minimum downtime and maximum production	-	-	-	-
	PC28. rectify running fabric defects like wrong drawing and denting, missing end, double end, weft breaks, etc. in the allotted looms	-	-	-	-
	PC29. doff the cloth rolls as per style specifications	-	-	-	-
	PC30. collect and dispose the yarn waste as per the specified instruction	-	-	-	-
	PC31. monitor the condition of heald, heald wires, temples, reed and other machine parts at specified intervals	-	-	-	-
	PC32. report to superiors for any deviation in the loom settings, performance, beam knotting or gaiting quality, fabric or raw material quality, etc.	-	-	-	-
	PC33. carry out preventive maintenance as per defined schedule within the responsibility limits such as shedding frame alignment, oiling and greasing, etc.	-	-	-	-
	PC34. assist the supervisor to maintain records of production, spare parts, raw material, etc.	-	-	-	-

	Adjust and monitor the operations of the shuttleless loom	27	63	-	-
	PC35. inspect the oil level from the oil level indicators of the centralized lubrication point, shedding devices, etc.	-	-	-	-
	PC36. adjust the filling yarn setting as per the limits of responsibility such as pressure, speed, etc.	-	-	-	-
	PC37. adjust the back rest and dropper bar positions as per the warp and style specification	-	-	-	-
	PC38. set the shed angle for various shed frames according to the fitter instruction using specified gauge	-	-	-	-
	PC39. prepare the loom for running after style change and warp change activities	-	-	-	-
	PC40. set the various parameters in the control panel of the loom as per the supervisor instruction such as loom rpm, take up, warp wind and unwind, etc.	-	-	-	-
	PC41. inspect and clear the fluff accumulations in the pre-winders as per the standard method	-	-	-	-
	PC42. adjust the weft selectors as per the weft design requirements	-	-	-	-
	PC43. set the filling cutter as per the fabric width requirement	-	-	-	-
	NOS Total	108	252	-	-

Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N9015: Follow machine, safety, and organizational guidelines in textile sector	Maintaining the work area, tools and machines	10	10	-	6
	PC1. handle materials, machinery, equipment and tools as per standard procedure	-	-	-	-
	PC2. use appropriate material handling equipment and tools as per standard procedure	-	-	-	-
	PC3. keep the equipment, machine and work area clean using appropriate cleaning tools as per standard procedure	-	-	-	-
	PC4. undertake minor routine maintenance of equipment and tools as per standard maintenance procedure	-	-	-	-
	PC5. maintain record for defective and unsafe equipment and tools	-	-	-	-
	PC6. verify that machine guards are in place as per standard specifications	-	-	-	-
	PC7. follow specified ergonomics for the assigned job role in textile sector	-	-	-	-
	PC8. collect and store worn-out spare parts at specified location	-	-	-	-
	PC9. report the condition of worn out parts as per standard procedure	-	-	-	-
	Greening and energy conservation in textile sector	7	10	-	6

PC10. segregate wastes such as recyclable, non- recyclable, hazardous as per standard protocol	-	-	-	-
PC11. optimize usage of material and resources including water, electricity in various tasks	-	-	-	-
PC12. switch off the machines and lights when not in use	-	-	-	-
Health, safety and response to emergencies at textile sector	32	40	-	28
PC13. use Personal Protective Equipment (PPEs) like body protector, ear plugs, nose mask, head cap, etc. as per guidelines	-	-	-	-
PC14. identify abnormal sounds emanating from faulty or worn out machine parts and take appropriate action	-	-	-	-
PC15. avoid dependency on any type of intoxicants	-	-	-	-
PC16. maintain social distance as per the instruction at workplace	-	-	-	-
PC17. report hazardous material to superiors at workplace	-	-	-	-
PC18. use the various appropriate fire extinguishers on different types of fires correctly	-	-	-	-
PC19. follow the specified steps in case of electricity failure	-	-	-	-
PC20. lift heavy objects using correct lifting procedures	-	-	-	-

PC21. recall emergency exits, safe spots, etc. of workplace	-	-	-	-
PC22. practice mock drills and evacuation procedures organized by industry	-	-	-	-
PC23. assist others to reach to safe spots in emergency situations	-	-	-	-
PC24. provide basic first aid for injury to peers and report to superiors	-	-	-	-
PC25. interpret different signs, alarms and take action appropriately	-	-	-	-
PC26. follow the guidelines while working in hazards atmosphere	-	-	-	-
PC27. assist in designing the safety plans with peers and superiors	-	-	-	-
PC28. follow the approved safety plans at workplace	-	-	-	-
Organizational standards and policies	16	20	-	10
PC29. perform assigned duties as per organization's protocol within scheduled time period	-	-	-	-
PC30. follow organization policies, quality standards, rules and regulations for working in textile sector	-	-	-	-
PC31. motivate colleagues to follow operational guidelines of organization	-	-	-	-

	PC32. wear specified uniform and follow etiquette as per standard guidelines for the textile sector	-	-	-	-
	PC33. maintain hygienic working atmosphere as per protocol of the textile sector	-	-	-	-
	PC34. submit lost and found articles as per standard protocol	-	-	-	-
	NOS Total	65	80	-	50
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N9016: Follow teamwork, adaptability, and communication guidelines in textile sector	Teamwork, trust and communication	10	15	-	5
	PC1. contribute to create a positive work environment in the team	-	-	-	-
	PC2. carry out tasks as per instructions received from superiors	-	-	-	-
	PC3. contribute to team work as per allocated responsibility to complete the task by using appropriate tools and methods	-	-	-	-
	PC4. build trust with team mates and superiors	-	-	-	-
	PC5. implement the ideas after superior's approval at work place	-	-	-	-
	PC6. communicate clearly with the team members as per standard protocol	-	-	-	-
	PC7. use suggested hand signs, vocal sound signals to convey the information in the production area	-	-	-	-

	PC8. listen effectively to the ideas and concerns of the peers	-	-	-	-
	PC9. use correct and respectful terms while communicating as per industry policy	-	-	-	-
	PC10. express views proactively and effectively	-	-	-	-
	PC11. make efforts to resolve difference of opinion with superiors and team members	-	-	-	-
	PC12. report to superior for problems identified in assigned duty	-	-	-	-
	PC13. report the daily performance to superior in prescribed manner and formats	-	-	-	-
	Adaptability	5	5	-	5
	PC14. adapt to flexible work environment for the assigned task	-	-	-	-
	PC15. adapt to work with various members of different ethnicity, gender and PwD without biases	-	-	-	-
	PC16. consider opinions of colleagues, fitters, superiors for the assigned task	-	-	-	-
	PC17. plan the work-routine within the limits of the responsibility	-	-	-	-
	PC18. adopt new ideas after due approval from superior for improving the productivity	-	-	-	-
	NOS Total	15	20	-	10

Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N2224: Execute loom controls and settings - Airjet Loom	Monitor and set loom controls in airjet loom	66	156	-	-
	PC1. monitor the functioning of airjet loom machine parts	-	-	-	-
	PC2. set the pressure settings according to weft count in airjet loom's main nozzle and the relay nozzles in its control panel	-	-	-	-
	PC3. test the main nozzle and the relay nozzles and their settings using the control panel of the loom	-	-	-	-
	PC4. fix the relay nozzles as per the width of the fabric in the nozzle rail using specified tools	-	-	-	-
	PC5. monitor the operation of leno selvedge mechanism	-	-	-	-
	PC6. actuate the emergency button in the airjet looms as per the instruction	-	-	-	-
	PC7. set the weft selector function as per the weft design requirements in the airjet loom control panel	-	-	-	-
	NOS Total	66	156	-	-
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N2225: Execute loom	Monitor and set loom controls in rapier loom	66	156	-	-

controls and settings - Rapier Loom	PC1. check the condition and functioning of rapier looms' weft insertion mechanism such as single, double, rigid, flexible rapier, etc.	-	-	-	-
	PC2. set the grippers, rapier tape and sprocket for the loom operation	-	-	-	-
	PC3. handle rapier tape and gripper as per the standard guidelines	-	-	-	-
	PC4. identify machine and fabric faults specific to weaving on rapier loom and rectify the same	-	-	-	-
	PC5. set the filling yarn cutter according to the fabric width requirements	-	-	-	-
	PC6. thread the weft yarn from pre-winder to the gripper as per the standard method	-	-	-	-
	PC7. set the weft feeder function as per the weft design requirements in the rapier loom control panel	-	-	-	-
	NOS Total	66	156	-	-
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N2226: Execute loom controls and settings - Waterjet Loom	Monitor and set loom controls in waterjet loom	66	156	-	-
	PC1. monitor the condition and functioning of waterjet looms' weft insertion mechanism like weft gripper, scissor blades, nozzles, weft accumulator, tension regulator, etc.	-	-	-	-

	PC2. set the pressure settings according to weft count in main nozzle and relay nozzles in the control panel of the loom	-	-	-	-
	PC3. test the nozzles and their settings using the control panel of the loom	-	-	-	-
	PC4. fix the nozzles as per the width of the fabric in the nozzle rail using specified tools	-	-	-	-
	PC5. monitor the operation of selvedge mechanism in the waterjet looms	-	-	-	-
	PC6. actuate the emergency button in the waterjet looms as per the instruction	-	-	-	-
	PC7. ensure the availability of water as per the production requirements in the waterjet looms	-	-	-	-
	NOS Total	66	156	-	-
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N2227: Execute loom controls and settings - Projectile Loom	Set loom controls in projectile loom	66	156	-	-
	PC1. monitor the condition of various machine parts and mechanisms in a projectile loom such as projectile, torsion bar, projectile accelerator, etc.	-	-	-	-

	PC2. clean the conveyor belt for smooth movement of the projectile weft carrier	-	-	-	-
	PC3. maintain the projectiles as per the standard guidelines	-	-	-	-
	PC4. load the projectiles in picking position in the shuttle box	-	-	-	-
	PC5. stop the projectile loom at the right position on a weft break	-	-	-	-
	PC6. re-thread the projectile for weft break as per the standard method	-	-	-	-
	PC7. take out projectile stuck from the shuttle box as per the standard method	-	-	-	-
	PC8. perform greasing and minor repair and maintenance activities as per the schedule in the waterjet loom	-	-	-	-
DGT/VSQ/N0101 – Employability Skills	NOS Total	66	156	-	-
	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	Descripti on
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.