

Fitter - Shuttleless Weaving Machine: Air-Jet

- ☒ 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: 4

Submitted By:

Textile Sector Skill Council

Contact Details:

Dr. Swapna Mishra
COO & Officiating CEO,
M: 98182-17453

Textile Sector Skill Council,
Unit 1011-1013, 10th Floor, Ambadeep Building,
14 Kasturba Gandhi Marg,
New Delhi – 110001.

Contents

Section 1: Basic Details	3
Section 2: Module Summary	7
NOS/s of Qualifications	7
Mandatory NOS/s:.....	7
Elective NOS/s:	8
Optional NOS/s:	8
Assessment - Minimum Qualifying Percentage	8
Section 3: Training Related	9
Section 4: Assessment Related	9
Section 5: Evidence of the Need for the Qualification	10
Section 6: Annexure & Supporting Documents Check List	10
Annexure 1: Evidence of Level.....	12
Annexure 2: Tools and Equipment	17
Annexure 3: Industry Validations Summary.....	18
Annexure 4: Training & Employment Details	18
Annexure 5: Blended Learning - NA.....	20
Annexure 6: Detailed Assessment Criteria	21
Annexure 7: Assessment Strategy	32
Annexure 8: Acronym and Glossary	33

Section 1: Basic Details

1.	Qualification Name	Fitter - Shuttleless Weaving Machine: Air-Jet	
2.	Sector/s	Textile & Handlooms	
3.	Type of Qualification ☐ New ☒ Revised ☐ Has Electives/ Options ☐ OEM	NQR Code & version of the existing /previous qualification: QG-04-TX-01918-2024-V1.1-TSC	Qualification Name of the existing/previous version: Fitter - Shuttleless Weaving Machine: Air-Jet
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA NA	
5.	National Qualification Register (NQR) Code & Version	QG-04-TX-04107-2025-V2-TSC	6. NCrF/NSQF Level: 4
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 Fitter - Shuttleless Weaving Machine: Air-Jet is a job-role in a weaving department. The responsibility of Fitter - Shuttleless Weaving Machine: AirJet is to maintain the loom efficiently so as to get maximum output with minimum defects, with less cost of production giving due importance to safety and environment aspects. He/she should carry out all the maintenance aspects such as erecting, dismantling, assembling, leveling, attending & resolving repairs and breakdowns in preparatory department. He/she should also carry out regular preventive maintenance activities thus ensuring proper functioning of all machines.	

9.	Eligibility Criteria for Entry for a Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1" data-bbox="722 233 1906 586"> <thead> <tr> <th data-bbox="722 233 850 337">S. No.</th> <th data-bbox="850 233 1398 337">Academic/Skill Qualification (with Specialization - if applicable)</th> <th data-bbox="1398 233 1906 337">Relevant Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td data-bbox="722 337 850 375">1</td> <td data-bbox="850 337 1398 375">• 12th or Equivalent</td> <td data-bbox="1398 337 1906 375">Nil</td> </tr> <tr> <td data-bbox="722 375 850 412">2</td> <td data-bbox="850 375 1398 412">• 11th or Equivalent</td> <td data-bbox="1398 375 1906 412">1.5 Years</td> </tr> <tr> <td data-bbox="722 412 850 449">3</td> <td data-bbox="850 412 1398 449">• 10th or Equivalent</td> <td data-bbox="1398 412 1906 449">3 Years</td> </tr> <tr> <td data-bbox="722 449 850 518">4</td> <td data-bbox="850 449 1398 518">• Previous relevant Qualification of NSQF Level 3.5</td> <td data-bbox="1398 449 1906 518">1.5 Years</td> </tr> <tr> <td data-bbox="722 518 850 586">5</td> <td data-bbox="850 518 1398 586">• Previous relevant Qualification of NSQF Level 3.0</td> <td data-bbox="1398 518 1906 586">3 Years</td> </tr> </tbody> </table> 18 Years				S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)	1	• 12th or Equivalent	Nil	2	• 11th or Equivalent	1.5 Years	3	• 10th or Equivalent	3 Years	4	• Previous relevant Qualification of NSQF Level 3.5	1.5 Years	5	• Previous relevant Qualification of NSQF Level 3.0	3 Years
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)																					
1	• 12th or Equivalent	Nil																					
2	• 11th or Equivalent	1.5 Years																					
3	• 10th or Equivalent	3 Years																					
4	• Previous relevant Qualification of NSQF Level 3.5	1.5 Years																					
5	• Previous relevant Qualification of NSQF Level 3.0	3 Years																					
10.	Credits Assigned to this NOS- Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	15 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="1005 1029 1694 1243"> <thead> <tr> <th data-bbox="1005 1029 1251 1138">Training Delivery Mode</th> <th data-bbox="1251 1029 1407 1138">Theory (Hours)</th> <th data-bbox="1407 1029 1562 1138">Practical (Hours)</th> <th data-bbox="1562 1029 1694 1138">Total (Hours)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1005 1138 1251 1206">Classroom (offline)</td> <td data-bbox="1251 1138 1407 1206">132</td> <td data-bbox="1407 1138 1562 1206">318</td> <td data-bbox="1562 1138 1694 1206">450</td> </tr> <tr> <td data-bbox="1005 1206 1251 1243">Online</td> <td data-bbox="1251 1206 1407 1243">-</td> <td data-bbox="1407 1206 1562 1243">-</td> <td data-bbox="1562 1206 1694 1243">-</td> </tr> </tbody> </table> (Refer Blended Learning Annexure for details)				Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)	Classroom (offline)	132	318	450	Online	-	-	-						
Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)																				
Classroom (offline)	132	318	450																				
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>	Supervisor - 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 ☒ 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/N9001 – Maintain work area, tools and machines TSC/N9002 – Working in a team TSC/N9003 – Maintain health, safety and security at workplace TSC/N9004 – Comply with industry and organizational requirement	
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	Weight age (if applicable)
1	Taking charge of shift and handing over shift to fitter-Shuttle less Weaving Machine: Air-Jet	TSC/N2409,V 2.0	Core	4	3	30	60			90	16	48		11	75	14
2	Maintain shuttle-less Air-jet loom	TSC/N2410,V 2.0	Core	4	8	60	180			240	43	109		23	175	32
3	Maintain work area, tools and machines	TSC/N9001,V 3.0	Non Core	3	0.5	5	10			15	17	20		13	50	9
4	Working in a team	TSC/N9002,V 6.0	Non Core	3	0.5	5	10			15	19	20		11	50	9
5	Maintain health, safety and security at workplace	TSC/N9003,V 5.0	Non Core	3	1.5	15	30			45	32	40		28	100	18
6	Comply with industry and organizational requirement	TSC/N9004,V 3.0	Non Core	3	0.5	5	10			15	15	20		15	50	9
7	Employability Skills	DGT/VSQ/N0101, V 1.0	Non Core	2	1	12	18			30	20	30			50	9
Duration (in Hours) / Total Marks					15	132	318			450	162	287		101	550	100

Elective NOS/s:

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

Optional NOS/s:

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

Assessment - Minimum Qualifying Percentage

Please specify any one of the following:

Minimum Pass Percentage – Aggregate at qualification level: **70%**

Pass Percentage of the Qualification is scheme specific, Unless specified by scheme, it is 70% or else scheme guidelines will override it.

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

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	- Diploma (10th Class + 3 years) in Textile trade with 3 years of relevant experience (Min 1 year in production + Min 2 year as trainer) (or) - CTS in the relevant trade with 4 years of relevant experience (Min 1 year in production + Min 3 year as trainer with Successfully passed Trainer Qualification MEP/Q2601, v2.0– Trainer (VET and Skills), Minimum pass percentage 80 percent and TSC/Q2405, v3.0 Fitter - Shuttleless Weaving Machine: Air-Jet, Minimum pass percentage 80 per cent
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Diploma/Degree/Masters/PhD in textile with at least 15/10/8/5 years of experience in textile sector with minimum 8/5/4/3 years in teaching/conducting training in Textile Research Associations, CoEs, Govt Textile organizations/ SIMA/ running textile mill
3.	Tools and Equipment Required for the Training	☐ Yes ☐ No (If "Yes", details to be provided in Annexure)
4.	In Case of Revised NOS, details of Any Upskilling Required for Trainer	Not Applicable

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	- ITI (Class 8th + 2 years) + 7 years of relevant experience (or) - Diploma (12th Class +2 years) in the relevant trade with 3 years of relevant experience (or) - Diploma (10th Class + 3 years) in the relevant trade with 4 years of relevant experience - 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/Q2405, v3.0 Fitter - Shuttleless Weaving Machine: Air-Jet, Minimum pass percentage 80 percent
----	--	--

2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines), (wherever applicable)	UG in any field
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Diploma/Degree/Masters/PhD in textile with at least 15/10/8/5 years of experience in textile sector with minimum 8/5/4/3 years in teaching/conducting training in Textile Research Associations, CoEs, Govt Textile organizations/ SIMA/ running textile mill
4.	Assessment Mode (Specify the assessment mode)	Offline
5.	Tools and Equipment Required for Assessment	☐ Same as for training ☒ Yes ☐ No (details to be provided in Annexure-if it is different for Assessment)

Section 5: Evidence of the Need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): Yes. Link - https://texskill.in/map_22/map.html
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): Yes Link - https://texskill.in/map_22/map.html
3.	Government /Industry initiatives/ requirement (Yes/No): Yes
4.	Number of Industry validation provided: 21
5.	Estimated number of people to be trained: 750
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	Specialized knowledge • Possesses specialized knowledge of procedures employed in both routine and non-routine contexts. • Has complete knowledge of concept of time required for delivery; and Quality for a range of issues. • Has knowledge of collecting and interpreting the available information, drawing conclusions & communicating the same. • Understands the financial and feasibility aspect of various work/ solutions options	A fitter - shuttleless weaving machine: air-jet is a job-role in a weaving department. The responsibility of fitter - shuttleless weaving machine: air jet is to maintain the loom efficiently so as to get maximum output with minimum defects, with less cost of production and giving due importance to safety and environment aspects. He/she should carry out all the maintenance aspects such as erecting, dismantling, assembling, leveling, attending & resolving repairs and breakdowns in preparatory department. He/she should also carry out regular preventive maintenance activities thus ensuring proper functioning of all machines. The tasks are <i>predictable, routine and involves situations of clear choice</i> taking charge of shift from previous shift fitter and relieving the responsibilities to the next shift fitter and carrying out maintenance and/or cleaning within one's responsibility. Hence NSQF Level is 4	NSQF Level 4

Professional and Technical Skills/ Expertise/ Professional Knowledge	Specialized skills • Possesses specialized professional and technical skills; displays clarity of professional knowledge and technical skills in broad range of activities/ tasks. • Can apply the required knowledge for successfully implementing or applying techniques/ processes in a specific field/ job role • The ability to gain, and where relevant apply a range of knowledge, skills and understanding. • Can clearly identify the relevant tools; and has advanced knowledge of materials in most routine/ non- routine contexts. • Possesses the required operational skills for the work/ job. Skill to deliver job/ work with the required precision and in the estimated timelines. • Capabilities of carrying out a choice of processes and procedures within the range of familiar / unfamiliar contexts.	A fitter - shuttleless weaving machine: áir jet should have the Factual knowledge about standard operating procedures with respect to process flow and material flow and safety standards in a typical textile weaving mill and responsibilities of a fitter - shuttleless weaving machine: projectile. The operator should also know the causes of defects incurred due to man and machine faults. Importance of yarn quality, safety mechanisms of the machines, stop motions and indication lamps and responsibilities under health, safety and environmental legislation. Hence NSQF Level is 4	NSQF Level 4
---	--	--	--------------

Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Team readiness & Entrepreneurial readiness • Have much broader Employability Skills including understanding of career planning, digital skills, financial and legal literacy. • Good Communication skills, both oral and written. • Initiative and Leadership Abilities • Advanced literacy and Numeracy skills • Has good skills for self-employment and entrepreneurship skills/entrepreneurial Mind-set which may potentially create job for more persons (say 3 to 5) • Can comfortably use most of the basic digital tools, has clear understanding of Financial and Digital literacy, Aadhaar and Mobile, uses digital payments etc. with proficiency • Good understanding of Constitutional values & Citizenship, inclusion and Diversity. • Very Good understanding of social political and work environment	A fitter - shuttleless weaving machine: air- jet should be able to write clear and short sentences 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 fitter applies basic arithmetic skills to carry out the maintenance activity in the air jet weaving machine. The operator comprehends the regulations, natural, social and political environment of a typical weaving mill. Hence NSQF Level is 4.	NSQF Level 4
--	---	---	---------------------

Broad Learning Outcomes/Core Skill	Specialized/ complex jobs/tasks • The candidate must be able to carry out a specialized job/ work/ tasks in a familiar/ un-familiar, predictable/ un-predictable, routine/ non-routine, situation of multiple options/ choices • Focus on range of application of standard and non-standard procedures and somewhat complex operations in production/ services. • Able to identify the problems and a wider possible range of solutions with pros and cons in production/ services • Complex tasks are performed by himself without much instructions and supervision • Apply related occupational safety & general hygiene norms and environmental aspects. • For mini-entrepreneurs end to end clear understanding of development, production, quality parameters, and delivery and marketing processes.	A fitter - shuttleless weaving machine: air jet <i>recall practical skills</i> like check the condition of the rapier tapes and initiate corrective action. should check for any abnormal sound/ noise in the weaving machine. <i>The fitter should be able to solve problems by selecting and applying basics rules and tools</i> like ensuring proper functioning of stop motions, back rest, shedding etc. so that fabrics are free from defects like starting mark, bad shedding etc, attending the other fabric defects like drop pick, cloth torn, weft stitches floats etc., see that the condition of heald wires, heald frames, reed etc. are in good condition. The fitter give preference to safety of machine & equipment. Hence NSQF Level is 4	NSQF Level 4
---	--	--	--------------

	• Applies range of well - developed technical skills with clarity of activities involving clear choices within familiar contexts • Has knowledge and is able to continuously improve processes which the individual uses for concerned job roles • Has information of associated Risks with related job roles • Uses discretion and judgement over a range of known responses to familiar problems.		
Responsibility	Self and team responsibility – Sr. Technician or Master Technician • At level 4 the candidate is a highly skilled master technician • Can perform all non-standard procedures and non-routine tasks with confidence.	A fitter - shuttleless weaving machine: air jet takes charge of the shift after discussing in detail the issues faced with respect to the quality, production and safety, reports to the shift superior, attending to quality issues, attending to production issues/ breakdowns, ensuring maintenance activities, maintains work area, tools and machines and contributes in making the workplace healthy, safe and secure and follows the industry & organizational compliance. The fitter - shuttleless weaving machine: air jet is responsible for his own work and learning. Hence NSQF Level is 4	NSQF Level 4

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.	Relavent Maintenance Tools & Accessories Kit	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	Gorakhpur Powerloom Association	–	–	Gorakhpur	7275191939	gorakhpurpowerloomassociation@gmail.com	–
2	Uttam Textiles	Hemantbhai Jariwala	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	Unique Handloom	Misbahul Hasan	Proprietor	Gorakhpur	9807550880	–	–
9	Hasan Textiles	Faizul Haram Ansari	Proprietor	Gorakhpur	9415270639	–	–
10	MM Weaves, Salem	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	Mallavalli	949229726, 9490163798	hrm@mohanspintex.com	–
13	Nitin Spinners Ltd	P.N.Joshi	GM, HR	Bhilwara	–	nsi@nitinspinners.com	–
14	Sri Ram Khadi Bhandar	Rajji Singh	DM	Meerut	9219510550	–	–
15	Kumaraguru College of Technology	Dr.G.Ramakrishnan	Professor	Coimbatore	0422-2661171	Ramakrishnan.g.ft@kct.ac.in	–
16	Bunkar Sahayata Sangathan Kendra	Nasim Akhtar	Director	Uttar Pradesh	9554046673	–	–
17	Kb Philanthropy 5	Laishram Monoranjan Singh	CEO	Imphal	9612001798	Kbphilantropy5@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	–
21	Bunkar Sahkari Samiti Ltd	–	–	Gorakhpur	9807550880	–	–

Annexure 4: Training & Employment Details

Year	Estimated Training # of Total Candidates	Estimated training # of Women	Estimated training # of People with Disability
2026	750	150	NA
2027	750	150	NA
2028	750	150	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	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	2021	0	0	0	0	NA. Data Requested from NSDC	NA. Data Requested from NSDC	NA. Data Requested from NSDC	NA. Data Requested from NSDC	-	-	-	-
1	2020	0	0	0	0	NA. Data Requested from NSDC	NA. Data Requested from NSDC	NA. Data Requested from NSDC	NA. Data Requested from NSDC	-	-	-	-

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

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

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

Content availability for previous versions of qualifications:

☐ Participant Handbook ☐ Facilitator Guide ☐ Digital Content ☐ Qualification Handbook ☐ Any Other:

Languages in which Content is available: English

Annexure 5: Blended Learning - NA**Blended Learning Estimated Ratio & Recommended Tools:**

Not Applicable

Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available on:<https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skill%20i%20ng.pdf>

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

Annexure 6: Detailed Assessment Criteria

Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N2409: Taking charge of shift and handing over shift to fitter- Shuttleless Weaving Machine: Air-Jet	Taking charge of shift from fitter Shuttleless weaving machine: Air-jet	14	41	-	10
	1. • come at least 15 • 20 minutes earlier to the work spot.	-	2	-	1
	2. ensure that the necessary tools, gauges etc., are in place	2	2	-	1
	3. meet the previous shift fitter & discuss with Him regarding the issues faced by Him with respect to the quality, production, spare, safety or any other specific instruction etc.	1	3	-	-
	4. check for the availability of the weft & the condition of the same.	1	3	-	-
	5. check the working condition of the weft Feeders.	-	3	-	1
	6. check for the fabric defects on cloth.	-	2	-	1
	7. check for the correct functioning of Centre Cutter, Side Cutter etc., wherever they are in use.	1	3	-	1
	8. check for the proper functioning of the Lino units.	-	3	-	-
	9. check whether ends are drawn properly in catch cord	1	3	-	-
	10. check the condition of the running beams for cross ends, ends pulling out etc. particularly at the selvedge	1	2	-	-
	11. check the air pressure in the main air line	1	2	-	1
	12. note down the break downs in the machines	2	3	-	-
	13. check for the size of the Cloth Rolls & to see whether any indication is there in the cloth rolls.	2	3	-	1
	14. check the cleanliness of the machines & other work areas.	1	3	-	1
	15. check whether any spare/raw material/ tool / fabric/ any other material are thrown under the machines or in the other work areas.	1	2	-	1

	16. question the previous shift Fitter for any deviation and should bring the same to the knowledge of His/ Her shift Superior as well that of the previous shift	-	2	-	1
	Handing over the Shift to fitter Shuttle-less weaving machine: Air-jet	2	7	-	1
	17. hand over the shift to the incoming Fitter in a proper manner & get clearance from him before leaving the work spot.	-	2	-	-
	18. report to His shift superiors as well as that of the incoming shift, in case His/ Her counterpart doesnt come for duty. In that case, the shift has to be properly handed over to the incoming shift Superior & get clearance from him before leaving the work spot.	1	3	-	1
	19. report to His 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	2	-	-
	NOS Total	16	48	-	11
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N2410: Maintain shuttle-less Air-jet loom	Attending to quality Issues	5	16	-	7
	1. ensure that the production is commenced only after the sample is approved.	-	2	-	1
	2. ensure that bulk production is started only after the first roll is approved.	-	2	-	1
	3. ensure that Warp Stop motion functions properly, so that there is no end out problem, warp float etc. in the fabrics.	-	2	-	1
	4. ensure that Weft stop motion functions properly so that fabrics dont get rejected due to weft crack.	1	2	-	1
	5. maintain Take Up & Let-Off mechanisms properly	1	2	-	-

6. ensure proper functioning of stop motions, Back Rest, Shedding etc., so that fabrics are free from defects like starting mark, bad shedding etc.	2	2	-	1
7. maintain temple setting, reed setting so that fabrics don't get rejected for reasons like temple cut, temple mark, Reed mark etc.	1	2	-	1
8. attend the other fabric defects like Tails, Under Tuck In, Drop Pick, Cloth Torn, Weft Stitches, floats etc.	-	2	-	1
Attending Production Issues/ Break downs	10	24	-	5
9. attend excessive weft breaks.	-	2	-	-
10. attend to Weft Transfer failures.	2	2	-	-
11. attend excessive warp breaks.	1	3	-	1
12. attend to loom stoppages due to Airjet getting Jammed	1	2	-	1
13. ensure that Heald wires, Heald Frames, reed etc. are in good working condition.	2	3	-	-
14. ensure that the loom runs with the correct belt size and see that there is no slippage in the same, so as to ensure that the loom works at the recommended speed.	2	4	-	1
15. see that replenishment of spares or attending to break downs is done in the prescribed time.	-	2	-	-
16. ensure required humidity is maintained in the loom shed.	-	2	-	1
17. check the knotted looms & ensure that knotting is carried out without cross ends.	1	2	-	-
18. report to His shift superiors as well check the sort change loom & ensure that drawing & reaching was carried out without any cross ends.	1	2	-	1
Handing over the Shift to fitter Shuttle-less weaving machine: Air-jet	4	9	-	2
19. ensure Loom Breakage Study and check the quality of both warp & weft yarn. For any deviation the same has to be brought to the knowledge of the higher authority	2	4	-	1

20. check the Sizing quality and for any deviation, the same has to be brought to the notice of the higher authority.	2	3	-	1
21. ensure proper dropper cleaning.	-	2	-	-
Ensuring Maintenance activities	24	60	-	9
22. ensure that the looms are cleaned properly as per the below schedule: Daily cleaning, Cleaning during Knotting, Cleaning during Sort Changes	2	2	-	-
23. check the oil level on weekly basis.	1	2	-	-
24. change the oil on yearly basis	2	3	-	1
25. correct / arrest oil leakages	1	4	-	-
26. take precautions during knotting	-	4	-	1
27. carry out preventive maintenance as per the schedule.	1	2	-	-
28. ensure the life of all the spares through effective maintenance.	1	2	-	-
29. maintain Spare Changing Details note, for the following details: a) Loom No., b) Name Of The Spare, c) Side (If any), d) Part No., e) Name Of the Supplier, f) Make, g) Date of Application, h) Date Of Removal, i) Reason For Removal, j) Life Of Item	2	3	-	1
30. salvage the Broken Spare & to avail new spare, only after producing the Old Spare to the Stores.	1	2	-	-

31. maintain sort muster as per the below details: a) Loom No., b) Construction Details, c) Warp details, d) Warp Count, e) Warp Mill Name, f) Warp Yarn Test Report (Test Parameters), g) Reed Used, h) Total Ends Used, i) Name Of The Sizing, j) Warping Breakage Rate, k) Average Warp Count, l) Size Pick Up, m) Warp break/ loom hour, n) Weft Details, o) Weft Count, p) Weft Mill Name, q) Weft Yarn Test Report (Test Parameters), r) Reed Space, s) Weft breakage per loom hour, t) Average Loom Efficiency, u) Loom Speed, v) Average Production in Kilo Picks/loom day, w) Production in metres/loom day, x) Date of knotting, y) Knotted metres, z) Date of exhaustion, Produced metres, Warp Crimp, Warp Consumption/metre (Excluding Size Add On), Warp Wt in kgs/ metre (Including Size add on), Weft Consumption/metre, Total cloth wt in kgs/ metre, GSM, Fabric doffed Kg/ Mtr, Fabric inspected Kg/ Mtr, Fabric Passed Kg/ Mtr, Fabric Rejected Kg/ Mtr, Rejection %, Reason For Rejection, Warp Waste %, Weft Waste %	2	3	-	1
32. maintain effective working of Generator	1	2	-	-
33. Ensure that Air is not misused. use air for cleaning only in the areas where it is recommended	2	2	-	-
34. ensure proper maintenance of Air Compressor	1	2	-	1
35. ensure that Loom Cards with all the required details are placed on all the looms: a) Loom No., b) Construction details, c) Reed Count, d) Reed Space, e) Weft Count, f) Pick Wheel, g) Winding Spindle No., h) Drawing Method	2	3	-	1
36. see that the weft yarn is completely used without any wastage of raw materials. For any quality issue or defective cone etc., the same has to be brought to the notice of the superiors.	-	2	-	-

37. maintain Knotting Entry Note with the following details: a) Loom No., b) Construction Details, c) Date Of Knotting, d) Time of Exhaustion, e) Cleaning Completed Time, f) Beam Loading Completed Time, g) Knotting Completed Time, h) Loom Run Time, i) Total Stopped Time For Knotting, j) Name Of the Sizing, k) Set No., l) Beam Nos., m) Beam Metres, n) Old Warp Waste kgs, o) New Warp Waste kgs, p) Cleaning Quality, q) Knotting Quality	2	3	-	1
38. ensure that Relative Humidity in the Department is maintained properly	-	2	-	-
39. ensure that correct quality of thrums is there & see that the same are properly tied.	-	2	-	-
40. check the knotted loom for knotting quality etc. Double ends have to be removed should report to Superiors for any deviation in the same & for any other quality issue.	-	2	-	-
41. check that all the safety covers are in place.	1	2	-	-
42. ensure that cloth rolls are doffed whenever/ wherever necessary.	-	2	-	-
43. give preference to safety. Should not enter the area, where He/ She are not allowed. Should not do a job in which training has not being given.	-	3	-	-
44. ensure that no raw material/ cloth/ spare/ tool / any other material is thrown under/ near the machines or in the other work areas.	1	2	-	-
45. Should ensure that cloth rolls are doffed whenever/wherever necessary	-	2	-	-
46. should give preference to safety. Should not enter the area, where he/she are not allowed. Should not do a job in which the training has not being given	1	1	-	1
47. should ensure that no raw material/ cloth/spare/tool/any other material is thrown under/ near the machines or in the other work areas.	-	1	-	1
NOS Total	43	109	-	23

Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N9001: Maintain work area, tools and machines	Maintaining the work area, tools and machines	17	20	-	13
	1. handle materials, machinery, equipment and tools with care and use them in the correct way	2	2	-	1
	2. use correct lifting and handling procedures	1	2	-	1
	3. use materials to minimize waste	2	1	-	1
	4. maintain a clean and hazard free working area	1	1	-	1
	5. maintain tools and equipment	2	1	-	1
	6. carry out running maintenance within agreed schedules	1	2	-	1
	7. carry out maintenance and/or cleaning within ones responsibility	1	2	-	1
	8. report unsafe equipment and other dangerous occurrences	1	2	-	-
	9. ensure that the correct machine guards are in place	1	1	-	1
	10. work in a comfortable position with the correct posture	1	1	-	1
	11. use cleaning equipment and methods appropriate for the work to be carried out	1	1	-	1
	12. dispose of waste safely in the designated location	1	2	-	1
	13. store cleaning equipment safely after use	1	1	-	1
	14. carry out cleaning according to schedules and limits of responsibility	1	1	-	1
	NOS Total	17	20	-	13
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N9002: Working in a team	Commitment and trust	5	4	-	2
	1. be accountable to the own role in whole process	2	1	-	1
	2. perform all roles with full responsibility	2	1	-	1
	3. be effective and efficient at workplace	1	2	-	-

	Communication	6	7	-	4
	4. properly communicate about company policies	1	2	-	1
	5. report all problems faced during the process	1	2	-	1
	6. talk politely with other team members and colleagues	2	1	-	1
	7. submit daily report of own performance	2	2	-	1
	Adaptability	5	4	-	3
	8. adjust in different work situations	1	1	-	1
	9. give due importance to other's point of view	2	1	-	1
	10. avoid conflicting situations	2	2	-	1
	Creative freedom	3	5	-	2
	11. develop new ideas for work procedures	1	3	-	1
	12. improve upon the existing techniques to increase process efficiency	2	2	-	1
	NOS Total	19	20	-	11
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N9003: Maintain health, safety and security at workplace	Comply with health, Safety and security requirements at work	27	35	-	23
	1. comply with health and safety related instructions applicable to the workplace	2	2	-	2
	2. use and maintain personal protective equipment such as ear plug, nose mask , head cap etc., as per protocol	2	2	-	2
	3. carry out own activities in line with approved guidelines and procedures	2	2	-	2
	4. maintain a healthy lifestyle and guard against dependency on intoxicants	2	2	-	2
	5. follow environment management system related procedures	2	2	-	2
	6. identify and correct (if possible) malfunctions in machinery and equipment	2	2	-	1
	7. report any service malfunctions that cannot be rectified	2	2	-	1

8. store materials and equipment in line with organisational requirements	2	2	-	1
9. safely handle and remove waste	2	2	-	1
10. minimize health and safety risks to self and others due to own actions	1	2	-	1
11. seek clarifications, from supervisors or other authorized personnel in case of perceived risks	1	2	-	2
12. monitor the workplace and work processes for potential risks and threat	1	2	-	1
13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned	1	2	-	1
14. report hazards and potential risks/ threats to supervisors or other authorized personnel	1	2	-	1
15. participate in mock drills/ evacuation procedures organized at the workplace	1	2	-	-
16. undertake first aid, fire-fighting and emergency response training, if asked to do so	1	2	-	1
17. take action based on instructions in the event of fire, emergencies or accidents	1	2	-	1
18. follow organisation procedures for shutdown and evacuation when required	1	1	-	1
Recognizing the hazards	2	2	-	2
19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry	1	1	-	1
20. recognise other possible security issues existing in the workplace	1	1	-	1
Planning the safety techniques Implementing the programs	3	3	-	3
21. recognise different measures to curb the hazards	1	1	-	1
22. communicate the safety plan to everyone	1	1	-	1
23. attach disciplinary rules with the implementation	1	1	-	1
NOS Total	32	40	-	28

Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N9004: Comply with industry and organizational requirement	Self development	5	9	-	7
	1. perform own duties effectively	1	2	-	2
	2. take responsibility for own actions	1	2	-	2
	3. be accountable towards the job role and assigned duties	1	2	-	1
	4. take initiative and innovate the existing methods	1	1	-	1
	5. focus on self-learning and improvement	1	2	-	1
	Team work	3	5	-	4
	6. co-ordinate with all the team members and colleagues	1	2	-	1
	7. communicate politely	1	1	-	2
	8. avoid conflicts and miscommunication	1	2	-	1
	Organisational standards	3	4	-	3
	9. know the organisational standards	1	1	-	1
	10. implement them in your performance	1	2	-	1
	11. motivate others to follow them	1	1	-	1
	Industry standards	4	2	-	1
	12. monitor the workplace and work processes for potential risks and threat	2	1	-	-
	13. align them with organisation standards	2	1	-	1
	NOS Total	15	20	-	15
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.