

Fitter - Chemical Processing (Textiles)

- ☒ 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:

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Chief Executive Officer,
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14 Kasturba Gandhi Marg,
New Delhi – 110001.**

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Section 1: Basic Details

1.	Qualification Name	Fitter - Chemical Processing (Textiles)	
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-01919-2024-V1.1-TSC	Qualification Name of the existing/previous version: Fitter - Chemical Processing (Textiles)
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA NA	
5.	National Qualification Register (NQR) Code & Version	QG-04-TX-04100-2025-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 - Chemical Processing (Textiles) is responsible for carrying out maintenance activities of all the machines in processing department like Singeing, CBR, Mercerizing, Drying Range, Jigger, Stenter, Jet dyeing, Soft flow, Calendaring, & finishing machines. He should carry out all the maintenance activities like erecting, dismantling, assembling, leveling, attending & resolving repairs and breakdowns in processing department. He should also carry out regular preventive maintenance activities thus ensuring proper functioning of all machines. This job requires the individual to have thorough knowledge of process flow and material flow in a processing unit for fabric production and should have sound technical knowledge on erecting the different sequence of machines in processing department.	

9.	Eligibility Criteria for Entry for a Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1" data-bbox="747 245 1923 597"> <thead> <tr> <th data-bbox="747 245 869 347">S. No.</th> <th data-bbox="869 245 1419 347">Academic/Skill Qualification (with Specialization - if applicable)</th> <th data-bbox="1419 245 1923 347">Relevant Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td data-bbox="747 347 869 386">1</td> <td data-bbox="869 347 1419 386">• 12th or Equivalent</td> <td data-bbox="1419 347 1923 386">Nil</td> </tr> <tr> <td data-bbox="747 386 869 425">2</td> <td data-bbox="869 386 1419 425">• 11th or Equivalent</td> <td data-bbox="1419 386 1923 425">1.5 Years</td> </tr> <tr> <td data-bbox="747 425 869 464">3</td> <td data-bbox="869 425 1419 464">• 10th or Equivalent</td> <td data-bbox="1419 425 1923 464">3 Years</td> </tr> <tr> <td data-bbox="747 464 869 532">4</td> <td data-bbox="869 464 1419 532">• Previous relevant Qualification of NSQF Level 3.5</td> <td data-bbox="1419 464 1923 532">1.5 Years</td> </tr> <tr> <td data-bbox="747 532 869 597">5</td> <td data-bbox="869 532 1419 597">• Previous relevant Qualification of NSQF Level 3.0</td> <td data-bbox="1419 532 1923 597">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="1026 1019 1713 1232"> <thead> <tr> <th data-bbox="1026 1019 1270 1127">Training Delivery Mode</th> <th data-bbox="1270 1019 1425 1127">Theory (Hours)</th> <th data-bbox="1425 1019 1581 1127">Practical (Hours)</th> <th data-bbox="1581 1019 1713 1127">Total (Hours)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1026 1127 1270 1195">Classroom (offline)</td> <td data-bbox="1270 1127 1425 1195">132</td> <td data-bbox="1425 1127 1581 1195">318</td> <td data-bbox="1581 1127 1713 1195">450</td> </tr> <tr> <td data-bbox="1026 1195 1270 1232">Online</td> <td data-bbox="1270 1195 1425 1232">-</td> <td data-bbox="1425 1195 1581 1232">-</td> <td data-bbox="1581 1195 1713 1232">-</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-2015/8154.99	
15.	Progression Path After Attaining the Qualification, wherever applicable <i>(Please show Professional and Academic progression)</i>	Supervisor - Processing	
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi	
17.	Is similar NOS available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:	
18.	Is the NOS Amenable to Persons with Disability	☐ Yes ☒ No If "Yes", specify applicable type of Disability:	
19.	How participation of women will be encouraged?	This Qualification/NOS is made suitable for all categories of learners including the individuals, Students, professionals with the prescribed entry qualification.	
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	☒ Yes ☐ No TSC/N9015 - Follow machine, safety and organizational guidelines in textile sector TSC/N9016 - Follow teamwork, adaptability, and communication guidelines in textile sector	
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☐ Yes ☒ No Colleges ☐ Yes ☒ No	
22.	Name and Contact Details Submitting / Awarding Body SPOC <i>(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</i>	Name: Mr. Vignesh Raja Email: raja@texskill.in Contact No.: 7502954383 Website: https://texskill.in/	
23.	Final Approval Date by NSQC: 08.05.2025	24. Validity Duration: 3 years	25. Next Review Date: 08.05.2028

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

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

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

S. n o	NOS Module Name	NOS/Module Code & Version (if applicable)	Core/ Non Core	NCrF/ NSQF Level	Credit as per NCrF	Training Duration					Assessment Marks					
						Th.	Pr.	OJT. Man	OJT. Rec	Total	Th.	Pr.	Pro j.	Viva	Total	Weight age (if applicable)
1	Taking charge of shift and handing over shift to fitter - Processing	TSC/N5701 ,V 2.0	Core	4	1.5	15	30			45	18	20		22	60	5
2	Carryout all types of Maintenance activities in Processing unit	TSC/N5702 ,V 2.0	Core	4	8	60	180			240	225	475		50	750	60
3	Maintaining records & ensure spares availability in processing unit	TSC/N5703 ,V 2.0	Core	4	1.5	15	30			45	40	90		20	150	12
4	Follow machine, safety and organizational guidelines in textile sector	TSC/N9015 ,V 2.0	Non Core	4	2.5	25	50			75	65	80		50	195	16
5	Follow teamwork, adaptability, and communication guidelines in textile sector	TSC/N9016 ,V 2.0	Non Core	4	0.5	5	10			15	15	20		10	45	3
6	Employability Skills	DGT/VSQ/N 0101,V 1.0	Non Core	3	1	12	18			30	20	30			50	4
Duration (in Hours) / Total Marks					15	132	318			450	383	715		152	1250	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/Q5701, v4.0 Fitter - Chemical Processing (Textiles), Minimum pass percentage 80 percent
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Diploma/Degree/Masters/PhD in textile with at least 15/10/8/5 years of experience in textile sector with minimum 8/5/4/3 years in teaching/conducting training in Textile Research Associations, CoEs, Govt Textile organizations/ SIMA/ running textile mill
3.	Tools and Equipment Required for the Training	☒ Yes ☐ No (If "Yes", details to be provided in Annexure)
4.	In Case of Revised NOS, details of Any Upskilling Required for Trainer	Not Applicable

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	• 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/Q5701, v4.0 Fitter - Chemical Processing (Textiles), Minimum pass percentage 80 percent
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2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines), (wherever applicable)	UG in any field
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Diploma/Degree/Masters/PhD in textile with at least 15/10/8/5 years of experience in textile sector with minimum 8/5/4/3 years in teaching/conducting training in Textile Research Associations, CoEs, Govt Textile organizations/ SIMA/ running textile mill
4.	Assessment Mode (Specify the assessment mode)	Offline
5.	Tools and Equipment Required for Assessment	☐ Same as for training ☒ Yes ☐ No (details to be provided in Annexure-if it is different for Assessment)

Section 5: Evidence of the Need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): Yes. Link - https://texskill.in/map_22/map.html
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): Yes Link - https://texskill.in/map_22/map.html
3.	Government /Industry initiatives/ requirement (Yes/No): Yes
4.	Number of Industry validation provided: 20
5.	Estimated number of people to be trained: 1000
6.	Evidence of Concurrence/Consultation with Line/State Departments (In case of regulated sectors): (Yes/No): Yes If "No", why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrf/NSQF level justification based on NCrf/NSQF descriptors (Mandatory)	Attached. Annexure 1
2.	Annexure: List of tools and equipment relevant for NOS (Mandatory, except in case of online course)	Attached. Annexure 2
3.	Annexure: Detailed Assessment Criteria (Mandatory)	Attached. Annexure 6
4.	Annexure: Assessment Strategy (Mandatory)	Attached. Annexure 6
5.	Annexure: Blended Learning (Mandatory, in case selected Mode of delivery is Blended Learning)	Attached. Annexure 5
6.	Annexure: Multiple Entry-Exit Details (Mandatory, in case qualification has multiple Entry-Exit)	No
7.	Annexure: Acronym and Glossary (Optional)	Attached. Annexure 8
8.	Supporting Document: Model Curriculum (Mandatory – Public view)	Attached. Annexure 9
9.	Supporting Document: Career Progression (Mandatory - Public view)	Attached. Annexure 10
10.	Supporting Document: Occupational Map (Mandatory)	Attached. Annexure 11
11.	Supporting Document: Assessment SOP (Mandatory)	Attached. Annexure 7
12.	Any other document you wish to submit:	NA

Annexure 1: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	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 - Chemical Processing (Textiles) is responsible for carrying out maintenance activities of all the machines in processing department like Singeing, CBR, Mercerizing, Drying Range, Jigger, Stenter, Jet dyeing, Soft flow, Calendaring, & finishing machines. He should carry out all the maintenance activities like erecting, dismantling, assembling, leveling, attending & resolving repairs and breakdowns in processing department. This fitter is responsible for operating the Machine by carrying out various maintenance activities for machine operation and maintaining records of maintenance activities This fitter knows about the causes that may result in machine faults and carries out <i>routine</i> cleaning and maintenance of the machine within his limits of responsibility to ensure that quality and productivity is maintained. For routine work, the <i>choices are clear</i>. For unprecedented situations, he has to report to the supervisor.	NSQF Level 4

		Hence NSQF Level is 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 - Chemical Processing (Textiles) should have the <i>Factual knowledge</i> about Standard Operating Procedures with respect to process flow and material flow and safety standards in a typical textile processing unit and responsibilities of a Fitter - Processing. The fitter should know to dismantle and assemble different mechanisms in machines on need basis, identify any abnormal sound in machine and stop the machine for carrying out maintenance activities. various spares & consumables used in processing. This fitter should understand planning maintenance activities and preparing date-wise plans for maintenance and replacement of parts considering their life, and should know safe working practices for cleaning and the method of carrying them out on regular basis. 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 - Chemical Processing (Textiles) should be able to collect and organise data for making daily work report, write grievance complaint application, comprehends written instructions, and communicates with the supervisor and others appropriately and convey information effectively. The operator Applies mathematical skill for the calculation of maintenance efficiency; time spent for maintenance, men employed, cost of maintenance, costs of spares consumption, mean time between breakdowns, and the industry norms. The operator performs all maintenance activities required during the production process for quality and uninterrupted output within the limits of own responsibility, comprehends the regulations, natural, social and political environment of a typical processing unit. Hence NSQF Level is 4	NSQF Level 4
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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,	A Fitter - Chemical Processing (Textiles) demonstrate practical skills like taking charge and handing over of the shift, carryout general maintenance activities, carryout preventive maintenance activities and carryout breakdown maintenance activities. This operator should be able accomplish tasks like procedure to oil and grease the different machine, to identify the reason for breakdown, carryout different maintenance activities, identify that the quality of output material is as per requirement. check the quality of materials received at stores, for e.g. bearings, wheels, machine spares, belts, brushes, spanners and other tools and keeping proper records & minimum order level Demonstrate the organization's rules, codes and guidelines (including timekeeping)., methods & tools to reduce the breakdown in the machines & cost of maintenance and maintenance procedures The tasks will be routine, repetitive and in the narrow range within the responsibilities of a Fitter - Processing . In case of unexpected faults or issues the operator will report to the shift supervisor. Hence NSQF Level is 4.	NSQF Level 4

	quality parameters, and delivery and marketing processes. • 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 - Chemical Processing (Textiles) takes charge of the shift after discussing in detail the issues faced with respect to the quality, production and safety, reports to the supervisor, maintaining work area, tools and machines and contributes in making the workplace healthy, safe and secure and follows the industry & organizational compliance. The Fitter - Processing is responsible for his own work and learning and allocating work to different people for their 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.	Textile Processing Machines in Textile Processing unit	1
2.	Fabric	500
3.	Relevant 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	North East Development Consortium (NEDC)	Jayanta Baruah	Chief Executive Officer	Place: Guwahati	9864958553	nedc2009@gmail.com	—
2	Uttam Textiles	Hemantbhai Jariwala	Owner	Place: Surat	9374526010	—	—
3	Durga Processors Pvt Ltd	Dilip Kotadiya	HR Head	Place: Surat	9824160935	hrd durga@dppl.co.in	—
4	Digi Venmanya	Karthik	Head	Place: Attayampatti	7708032166	digivenmanga@gmail.com	—
5	JCT Limited	Ashwani Thapar	General Manager	Place: Phagwara	9876015157	athapar@jctltd.com	—
6	Sri Kannapiran Mills Limited	G.Gurunathan	General Manager	Place: Sipcot, Perundurai	9865259591	gurunathan.ao@kgfabriks.com	—
7	Matiy Mitra Mills	Shyam Sundar	MD	Place: Erode	8667401256	callshyamsun@gmail.com	—
8	TBL Education (I) Pvt Ltd	Neetika Gupta	National Head	Place: Guwahati	9582941460	Tbl.eduindia@gmail.com	—
9	Valeur Fabtex Pvt Ltd	Harsh Chamaria	Director	Place: New Delhi	9910211484	director@valeurfabtex.com	—
10	MM Weaves, Salem	Ms.Sujatha	Proprietor	Place: Attayampatti	9842196774	weavesmm@gmail.com	—
11	Chanu Creations	Kshetrimayum Indira Devi	Proprietor	Place: Imphal	9821115226	chanucreations.skillindia@gmail.com	—
12	Mohan Spintex India Limited	Ravuri Thandav Krishna	Dy. General Manager, Admin	Place: Mallavalli	9492297269, 9490163798	hrm@mohanspintex.com	—
13	Nitin Spinners Ltd	P.N.Joshi	General Manager, HR	Place: Bhilwara	—	ns1@nitinspinners.com	—
14	Reliance Chemotex	G.S.Rathore	Factory Manager	Place: Udaipur	+91 294 2491489 / 90	udaipur@reliancechemotex.com	—
15	Kumaraguru	Dr.G.Ramakrishnan	Professor	Place:	0422-2661171	ramakrishnan.g.ft@kct.ac.in	—

	College of Technology			Coimbatore			
16	Eeshanau Foundation	Chaningleima Oinam	Secretary	Place: Imphal	9856031407 / 8974998624	chaningoinam@gmail.com	—
17	Kb Philanthropy 5	Laishram Monoranj Singh	CEO	Place: Imphal	9612001798	Kbphilantropy5@gmail.com	—
18	The Southern India Mills Association	D. Suresh Ananda Kumar	Dy. Secretary General	Place: Coimbatore	9790466668	suresh@simamills.org	—
19	Textile Committee	Dr.K.S.Muralidhara	Jt. Director (RSA)	Place: Mumbai	022 66527523	secy.tc@nic.in	—
20	Individual	G.Somasundaram	Advisor	Place: Bangalore	9343756560	soms28@gmail.com	—

Annexure 4: Training & Employment Details

Year	Estimated Training # of Total Candidates	Estimated training # of Women	Estimated training # of People with Disability
2026	1000	200	NA
2027	1000	200	NA
2028	1000	200	NA

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

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
2	2022	3	3	3	1	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/N5701: Taking charge of shift and handing over shift to Fitter Processing	Taking charge of shift from fitter-Processing	9	10		11
	1. come at least 10 - 15 minutes earlier to the work place	1	1	-	2
	2. bring the necessary operational tools to the department	1	1	-	1
	3. meet the previous shift fitter and discuss with him/ her regarding the issues faced by them with respect to the quality, production, spare, safety or any other specific instruction etc.	1	1	-	1
	4. understand the fabric being processed & process running on the machine	1	1	-	1
	5. ensure the technical details are mentioned on the job card display on the machine	1	1	-	1
	6. check the next batch to be processed is ready near the machine	1	1	-	1
	7. check the cleanliness of the machines & other work areas	1	1	-	1
	8. Question the previous shift fitter for any deviation in the above and bring the same to the knowledge of his/ her shift superior as well that of the previous shift	1	1	-	1
	9. hand over the shift to the incoming fitter- Processing in a proper manner	1	1	-	1
	10. ensure in providing the details regarding fabric quality & the process running on the machine	-	1	-	1
	Handing over shift to fitter-Processing	9	10		11
	11. provide all relevant information regarding the stoppages or breakdown in the machine, any damage to the fabric or machine	1	1	-	2
	12. ensure the empty trolley is near the machine for unloading the fabric	1	1	-	1
	13. ensure the next lot to be processed is ready near the machine already stitched & arranged properly	1	1	-	1

	14. ensure the required dyes & chemicals for the next lot or next process are weighed & prepared	1	1	-	1
	15. get clearance from the incoming counterpart before leaving the work spot	1	1	-	1
	16. report to his/ her shift superiors as well as that of the incoming shift supervisor in case his/ her counterpart doesn't report for the incoming shift	1	1	-	1
	17. ensure the shift has to be properly handed over to the incoming shift fitter	1	1	-	1
	18. report to his/ her shift superior about the quality / production / safety issues/ any other issue faced in his/ her shift and leave the department only after getting concurrence for the same from his/ her superiors	1	1	-	1
	19. collect the wastes from waste collection bags, weigh them and transport to storage area	1	1	-	1
	20. ensure that your work area is clean	-	1	-	1
	NOS Total	18	20		22
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N5702: Carryout all types of Maintenance activities in Processing unit	Carryout General Maintenance activities	75	160		20
	1. take round of the work area before the start of the shift and observing the working	9	18	-	3
	2. noting down the machines stopped for repairs and the type of problem.	9	18	-	3
	3. dismantle and assemble different mechanisms in machines on need basis	9	18	-	2
	4. understand the work done till now and the work pending in the machines stopped for repairs or for maintenance work or modifications	8	18	-	2
	5. understand the production plan and preparing maintenance plan and allocating people for different activities	8	18	-	2
	6. allocate the workers for different tasks considering their knowledge, skills, maturity and workloads agreed	8	18	-	2

7. ensure the use of safety gadgets like masks, gloves and shoes by all maintenance workers	8	18	-	2
8. to view display panel board and identify the reason for breakdown maintenance	8	17	-	2
9. identify any abnormal sound in machine and stop the machine for carrying out maintenance activities	8	17	-	2
Carryout Preventive maintenance activities	75	160		15
10. check the proper functioning of machines like stenter, jiggers, drying range, mercerizing, singeing, sanforizing & others	10	20	-	2
11. check the conditions of machine parts while they are being cleaned/scoured or overhauled	10	20	-	2
12. identify the worn out parts and getting the worn-out parts replaced.	10	20	-	2
13. monitor the stoppages due to breakdowns and analysing the reasons for breakdowns and taking precautionary measures	9	20	-	2
14. conduct the tool audits i.e. the tools used for maintenance like spanners, top arm gauge, lubricating and flushing pumps, buffing machines, mounting machines, etc	9	20	-	2
15. to oil and grease the different machine parts at scheduled interval for smooth functioning of machines	9	20	-	2
16. ensure correct oil and grease are taken	9	20	-	2
17. ensure proper functioning of machines in the processing department	9	20	-	1
Carryout breakdown maintenance activities	75	155		15
18. attend the machine on a break down	6	12	-	2
19. report to the maintenance supervisor on a breakdown	6	11	-	1
20. preparing the machine for carrying out breakdown maintenance	6	11	-	1
21. ensure in bringing the proper tool and equipment required for carrying out maintenance	6	11	-	1
22. analyze the machine which is under breakdown	6	11	-	1
23. identify the reason for breakdown	5	11	-	1
24. replace worn out parts with new parts	5	11	-	1
25. ensure safety while carrying out maintenance activity	5	11	-	1

	26. ensure proper material handling of maintenance tools	5	11	-	1
	27. check for proper functioning of machine after maintenance	5	11	-	1
	28. repair further and ascertain if further fine tuning is needed	5	11	-	1
	29. ensure the output material quality is as per quality requirement	5	11	-	1
	30. ensure the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers	5	11	-	1
	31. ensure minimum time taken for attending the breakdown, identifying the reason for breakdown and carryout the breakdown maintenance activities	5	11	-	1
	NOS Total	225	475		50
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N5703: Maintaining records & ensure spares availability in processing unit	Maintaining records of maintenance activities	20	45		10
	1. carryout maintenance auditing	5	12	-	3
	2. record the activities in the log book (Report Book) and update the machine history book	5	11	-	3
	3. plan maintenance activities by preparing date-wise plans for maintenance and replacement of parts considering their life	5	11	-	2
	4. calculate maintenance efficiency; time spent for maintenance, men employed, cost of maintenance, costs of spares consumption	5	11	-	2
	Ensuring spares availability	20	45		10
	5. verify the stock of various spares, accessories and lubricants	4	8	-	2
	6. work out the indenting plan and placing indents.	4	8	-	2
	7. refer the machinery catalogues and identify the correct spares needed.	3	8	-	2
	8. ensure availability of spares and giving requisitions on need basis	3	8	-	2
	9. maintain records of spares , oils & lubricants consumed	3	8	-	1

	10. check the quality of materials received at stores, for e.g. bearings, wheels, machine spares, belts, brushes, spanners and other tools	3	5	-	1
	NOS Total	40	90		20
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N9015: Follow machine, safety & organizational guidelines in Textile sector	Maintaining the work area, tools and machines	10	10	-	6
	1. handle materials, machinery, equipment and tools as per standard procedure	1	1	-	1
	2. use appropriate material handling equipment and tools as per standard procedure	1	1	-	-
	3. keep the equipment, machine and work area clean using appropriate cleaning tools as per standard procedure	1	1	-	1
	4. undertake minor routine maintenance of equipment and tools as per standard maintenance procedure				
	5. maintain record for defective and unsafe equipment and tools	1	1	-	1
	6. verify that machine guards are in place as per standard specifications				
	7. follow specified ergonomics for the assigned job role in textile sector	1	1	-	-
	8. collect and store worn-out spare parts at specified location				
	9. report the condition of worn out parts as per standard procedure	1	1	-	1
	Greening and energy conservation in textile sector	7	10	-	6
	10. segregate wastes such as recyclable, non- recyclable, hazardous as per standard protocol	3	4	-	2
	11. optimize usage of material and resources including water, electricity in various tasks	2	3	-	2
	12. switch off the machines and lights when not in use	2	3	-	2
	Health, safety and response to emergencies at textile sector	32	40	-	28
	13. use Personal Protective Equipment (PPEs) like body protector, ear plugs, nose mask, head cap, etc. as per guidelines	2	3	-	2
	14. identify abnormal sounds emanating from faulty or worn out machine parts and take appropriate action	2	3	-	2

	15. avoid dependency on any type of intoxicants	2	3	-	2
	16. maintain social distance as per the instruction at workplace	2	3	-	2
	17. report hazardous material to superiors at workplace	2	3	-	2
	18. use the various appropriate fire extinguishers on different types of fires correctly	2	3	-	2
	19. follow the specified steps in case of electricity failure	2	3	-	2
	20. lift heavy objects using correct lifting procedures	2	3	-	2
	21. recall emergency exits, safe spots, etc. of workplace	2	3	-	2
	22. practice mock drills and evacuation procedures organized by industry	2	3	-	2
	23. assist others to reach to safe spots in emergency situations	2	2	-	2
	24. provide basic first aid for injury to peers and report to superiors	2	2	-	2
	25. interpret different signs, alarms and take action appropriately	2	2	-	2
	26. follow the guidelines while working in hazards atmosphere	2	2	-	2
	27. assist in designing the safety plans with peers and superiors	2	1	-	-
	28. follow the approved safety plans at workplace	2	1	-	-
	Organizational standards and policies	16	20	-	10
	29. perform assigned duties as per organization's protocol within scheduled time period	3	4	-	2
	30. follow organization policies, quality standards, rules and regulations for working in textile sector	3	4	-	2
	31. motivate colleagues to follow operational guidelines of organization	3	3	-	2
	32. wear specified uniform and follow etiquette as per standard guidelines for the textile sector	3	3	-	2
	33. maintain hygienic working atmosphere as per protocol of the textile sector	2	3	-	1
	34. submit lost and found articles as per standard protocol	2	3	-	1
	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
	1. contribute to create a positive work environment in the team	1	2	-	1
	2. carry out tasks as per instructions received from superiors	1	2	-	-
	3. contribute to team work as per allocated responsibility to complete the task by using appropriate tools and methods	1	1	-	-
	4. build trust with team mates and superiors	1	1	-	1
	5. implement the ideas after superior's approval at work place	1	1	-	-
	6. communicate clearly with the team members as per standard protocol	1	1	-	1
	7. use suggested hand signs, vocal sound signals to convey the information in the production area	1	1	-	-
	8. listen effectively to the ideas and concerns of the peers	1	1	-	1
	9. use correct and respectful terms while communicating as per industry policy	1	1	-	-
	10. express views proactively and effectively	1	1	-	1
	11. make efforts to resolve difference of opinion with superiors and team members	-	1	-	-
	12. report to superior for problems identified in assigned duty	-	1	-	-
	13. report the daily performance to superior in prescribed manner and formats	-	1	-	-
	Adaptability	5	5	-	5
	14. adapt to flexible work environment for the assigned task	1	1	-	1
	15. adapt to work with various members of different ethnicity, gender and PwD without biases	1	1	-	1
	16. consider opinions of colleagues, fitters, superiors for the assigned task	1	1	-	1
	17. plan the work-routine within the limits of the responsibility	1	1	-	1
	18. adopt new ideas after due approval from superior for improving the productivity	1	1	-	1
	NOS Total	15	20	-	10

Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
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.