

Fitter - Ring Spinning

- ☒ 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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Section 1: Basic Details

1.	Qualification Name	Fitter - Ring Spinning	
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-01914-2024-V1.1-TSC	Qualification Name of the existing/previous version: Fitter - Ring Spinning
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA NA	
5.	National Qualification Register (NQR) Code & Version	QG-04-TX-04102-2025-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	The ring spinning fitter is responsible for carrying out all the maintenance activities in a ring spinning machine. He/she should be able to carry out all the maintenance activities such as erecting, dismantling, assembling, leveling, attending & resolving repairs and breakdowns in a ring spinning machine. The fitter should also carry out regular maintenance activities thus ensuring proper functioning of the machines.	

9.	Eligibility Criteria for Entry for a Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1" data-bbox="760 233 1942 587"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Relevant Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>• 12th or Equivalent</td> <td>Nil</td> </tr> <tr> <td>2</td> <td>• 11th or Equivalent</td> <td>1.5 Years</td> </tr> <tr> <td>3</td> <td>• 10th or Equivalent</td> <td>3 Years</td> </tr> <tr> <td>4</td> <td>• Previous relevant Qualification of NSQF Level 3.5</td> <td>1.5 Years</td> </tr> <tr> <td>5</td> <td>• Previous relevant Qualification of NSQF Level 3.0</td> <td>3 Years</td> </tr> </tbody> </table> 18 Years				S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)	1	• 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="1008 1029 1694 1243"> <thead> <tr> <th>Training Delivery Mode</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>132</td> <td>318</td> <td>450</td> </tr> <tr> <td>Online</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> (Refer Blended Learning Annexure for details)				Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)	Classroom (offline)	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-2015/8151.99	
15.	Progression Path After Attaining the Qualification, wherever applicable <i>(Please show Professional and Academic progression)</i>	Supervisor - Spinning	
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. no	NOS Module Name	NOS/Module Code & Version (if applicable)	Core/ Non Core	NCrF/ NSQF Level	Credit as per NCrF	Training Duration					Assessment Marks					
						Th.	Pr.	OJT. Man	OJT . Rec	Total	Th.	Pr.	Proj .	Viv a	Total	Weightage (if applicable)
1	Taking charge of shift and handing over shift to fitter- Ring Spinning	TSC/N0406,V 2.0	Core	4	3	30	60			90	26	40		34	100	15
2	General Maintenance Responsibilities- Ring Spinning	TSC/N0407,V 2.0	Core	4	2.5	15	60			75	26	33		16	75	11
3	Preventive maintenance responsibilities- Ring Spinning	TSC/N0408,V 2.0	Core	4	1.5	15	30			45	26	35		14	75	11
4	Break Down maintenance- Ring Spinning	TSC/N0409,V 2.0	Core	4	2.5	15	60			75	17	39		14	70	11
5	Maintaining records and ensuring availability of spares in Ring spinning	TSC/N0410,V 2.0	Core	4	1.5	15	30			45	11	14		5	30	5
6	Maintain work area, tools and machines	TSC/N9001,V 3.0	Non Core	3	0.5	5	10			15	17	20		13	50	8
7	Working in a team	TSC/N9002,V 6.0	Non Core	3	0.5	5	10			15	19	20		11	50	8
8	Maintain health, safety and security at workplace	TSC/N9003,V 5.0	Non Core	3	1.5	15	30			45	32	40		28	100	15
9	Comply with industry and organizational requirement	TSC/N9004,V 3.0	Non Core	3	0.5	5	10			15	15	20		15	50	8
10	Employability Skills	DGT/VSQ/N0101, V 1.0	Non Core	2	1	12	18			30	20	30			50	8
Duration (in Hours) / Total Marks					15	132	318			450	209	291		150	650	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/Q0402, v4.0 Fitter - Ring Spinning, 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/Q0402, v4.0 Fitter - Ring Spinning, 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: 19
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	The ring spinning fitter is responsible for carrying out all the maintenance activities in a ring spinning machine. This fitter works in familiar, work environment with predictable routine work involved in a typical spinning unit. The tasks are predictable, routine and involve situations of clear choice like carrying out all the maintenance activities such as erecting, dismantling, assembling, leveling, attending & resolving repairs and breakdowns in a ring spinning machine and ensure all the machines are running properly, for machines which are not running and problems if any should be clarified with the fitter, supervisor and operator. For routine work, the choices are clear. For unprecedented situations, fitter has to report to the supervisor. 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.	The ring spinning fitter should have the Factual knowledge about standard operating procedures with respect to process flow and material flow and safety standards in the spinning unit. Should know functions and methodology for operating different material handling tools, contact person in case of queries on procedure or products for revolving issues related to	NSQF Level 4

	• 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.	defective machines, tools, materials & equipment. knowledge of waste collection system & equipment used. And ensure safe working practices to be adopted in spinning unit. Hence NSQF Level is 4	
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Team readiness & Enterpreurial readiness • Have much broader Employability Skills including understanding of career planning, digital skills, financial and legal literacy.	The ring spinning fitter should be able to <i>write clear and short sentences in local/regional language</i> 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 <i>basic arithmetical skill to</i> carry out maintenance machine audit and maintain	NSQF Level 4

	• 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	the records of maintenance. The fitter performs 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 for uninterrupted output within the limits of own responsibility, comprehends the regulations, natural, social and political environment of a typical spinning unit. Hence NSQF Level is 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-	The ring spinning fitter recall and demonstrate practical skills like taking charge of shift from previous shift fitter-ring spinning and relieving the responsibilities to the next shift fitter-ring spinning. The fitter should be able to perform practical skills for routine operations like carrying out general maintenance activities in spinning	NSQF Level 4

	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. • 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	department, dismantle and assemble different mechanisms in machines on need basis, identify any abnormal sound in running machine, carrying out preventive maintenance activities in ring spinning. The fitter makes sure the machine is kept clean at all times. Demonstrates repetitive skills like attending the machine on breakdown, identifying the reason for breakdown and carryout maintenance activity and maintaining records and ensuring availability of spares. Hence NSQF Level is 4	
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	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.	The ring spinning fitter takes charge of shift from fitter-ring spinning and hand over shift to fitter-ring spinning, the fitter do the specified job of understanding the production plan and preparing maintenance plan and allocating people for different activities. The fitter Inspect the condition of working parts, check the proper functioning of machines like ring frame and the ancillaries like trolleys, filters, roller covering and so on and carrying out maintenance. The fitter is responsible for carrying out his specified task and keeps the machine running and contributes in making the workplace healthy, safe and secure and follows the industry & organizational compliance. The ring spinning fitter 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.	Ring Frame machine	1
2.	Roving Bobbins/ Spindle	1
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 - N O	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	Gorakhpur Powerloom Association	—	—	Place: Gorakhpur	7275191939	gorakhpurpowerloomassociation@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	Powerloom Service Centre, Sachin	Rakesh Koli	Co-ordinator	Place: Surat	7588234486	mantrasachinpsc@gmail.com	—
9	The South India Textile Research Association	K.V.Vaidyanathan	Scientific Officer	Place: Coimbatore	7010896564	—	—
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: Remalle	9492297269, 9490163798	hrm@mohanspintex.com	—
13	Nitin Spinners Ltd	P.N.Joshi	General Manager, HR	Place: Bhilwara	—	nsf@nitinspinners.com	—
14	Reliance Chemotex	G.S.Rathore	Factory Manager	Place: Udaipur	+91 294 2491489 / 90	udaipur@reliancechemotex.com	—
15	Kumaraguru College of Technology	Dr.G.Ramakrishnan	Professor	Place: Coimbatore	0422-2661171	Ramakrishnan.g.ft@kct.ac.in	—
16	Saraswati Cotton carding	Rithesh Arora	Manager	Place: Bari-Brahamana	9419237070	scctextile@gmail.com	—
17	Kb Philanthropy 5	Laishram Monoranjan 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	—

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	100	90	86	43	NA. Data Requested from NSDC	NA. Data Requested from NSDC	NA. Data Requested from NSDC	NA. Data Requested from NSDC	-	-	-	-
1	2021	24	22	21	10	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/N0406: Taking charge of shift and handing over shift to Fitter - Ring Spinning	Taking charge of shift from fitter-Ring Spinning	18	27	-	18
	1. come at least 10 - 15 minutes earlier to the work spot	1	2	-	1
	2. bring the necessary operational tools to the department	1	2	-	2
	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	2	2	-	2
	4. understand the count produced, colour coding, followed in the ring spinning machines	2	2	-	2
	5. patrol around the machines in spinning department and ensure the smooth functioning of all the machines in the department	2	3	-	1
	6. discuss with previous shift fitter regarding the issues faced in the machines if any	2	3	-	1
	7. ensure all the machines are running properly, for machines which are not running and problems if any should be clarified with the fitter, supervisor and operator	2	3	-	1
	8. check the cleanliness of work areas	1	2	-	1
	9. check whether any spare/raw material/ tool / yarn / any other material are thrown under the machines or in the other work areas	1	3	-	2
	10. should question the previous shift maintenance people for any deviation in the above and should bring the same to the knowledge of his/ her shift superior as well as that of the previous shift	1	1	-	3
	11. ensure the work spot is clean	1	2	-	1
	12. take over the shift from the outgoing shift's fitter in a proper manner	2	2	-	1

	Handing over shift to fitter-Ring Spinning	8	13	-	16
	13. ensure in providing the details regarding count produced, colour coding followed for his allocated number of machines in ring spinning department	1	2	-	3
	14. provide all relevant information regarding the count produced, idle machines, damaged machine parts if any	1	2	-	3
	15. get clearance from the incoming counterpart before leaving the work spot	1	2	-	2
	16. report to his shift's superiors as well as the incoming shift's superiors in case his/ her counterpart doesn't report for the incoming shift	1	2	-	2
	17. report to his shift superior about the quality / production / maintenance issues / 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	-	2
	18. ensure the shift has to be properly handed over to the incoming shift fitter	2	1	-	3
	19. report to his shift superior about the quality / production / maintenance issues / safety issues/ any other issue faced in his shift and should leave the department only after getting concurrence for the same from his/ her superiors	1	2	-	1
	20. ensure the work spot is clean	-	-	-	-
	NOS Total	26	40	-	34
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N0407: General Maintenance Responsibilities - Ring Spinning	General Maintenance Activities	26	33	-	16
	1. take a round of the work area before the start of the shift for observing the working	2	2	-	1
	2. note down the machines stopped for repairs and the type of problem	2	3	-	1
	3. dismantle and assemble different mechanisms in machines on need basis	2	4	-	1
	4. understand the quality complaints in the machines	2	3	-	1

	5. understand the works done till now and the works pending in the machines stopped for repairs or for maintenance works or modifications	2	2	-	1
	6. understand the production plan and preparing maintenance plan and allocating people for different activities	2	3	-	-
	7. understand the machines allotted for various counts and mixings and decide on the parameters to be checked while doing maintenance like top arm settings, spacers, cots and aprons, spindle tapes, jockey pulley alignment, rings and travelers, traveler clearer setting, etc.	3	3	-	1
	8. allocate the workers for different tasks considering their knowledge, skills, maturity and workloads agreed	2	1	-	2
	9. identify any abnormal sound in running machine	2	3	-	2
	10. identify any damaged cops in the ring spinning department and segregate the same	2	2	-	1
	11. refer to process parameters and work out the changes to be made for change in hank or product mix and getting the changes made by the concerned maintenance workers	1	1	-	3
	12. ensure the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers	2	3	-	1
	13. counsel and influence a poor performers worker to achieve output as per norms	2	3	-	1
	NOS Total	26	33	-	16
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N0408: Preventive maintenance responsibilities - Ring Spinning	Inspecting the working condition of machine parts	6	7	-	3
	1. check the proper functioning of machines like ring frame and the ancillaries like trolleys, filters, roller covering and so on	2	2	-	1
	2. check the conditions of machine parts while they are being cleaned/scoured or overhauled	2	3	-	1
	3. ensure the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers	2	2	-	1

	Carrying out maintenance	12	17	-	6
	4. change the settings of the machines on need basis	2	3	-	1
	5. identify the worn-out parts and get the worn- out parts replaced	3	3	-	1
	6. verify the safety stop motions and get them attended	2	2	-	1
	7. monitor the stoppages due to breakdowns, analyze the reasons for breakdowns and take precautionary measures	2	3	-	1
	8. monitor the cot mounting and buffing activities	1	3	-	1
	9. 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	2	3	-	1
	Oiling and greasing the machine	8	11	-	5
	10. oil and grease the different machine parts at scheduled interval for smooth functioning of machines	2	3	-	2
	11. schedule the oiling & greasing activities	2	3	-	1
	12. ensure correct oil and grease are taken	2	2	-	1
	13. ensure proper functioning of machines in preparatory department	2	3	-	1
	NOS Total	26	35	-	14
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N0409: Break Down Maintenance- Ring Spinning	Attending the machine on breakdown	4	7	-	5
	1. attend the machine on break down	1	2	-	1
	2. report to the maintenance incharge on breakdown	1	1	-	2
	3. preparing the machine for carrying out breakdown maintenance	1	2	-	1
	4. ensure in bringing the proper tool and equipments required for carrying out maintenance	1	2	-	1
	Identifying the reason for breakdown and carryout maintenance activity	7	16	-	5
	5. analyze the machine which is under breakdown	1	3	-	1

	6. identify the reason for breakdown	1	3	-	1
	7. carryout maintenance activities	1	3	-	1
	8. replace worn out parts with new parts	1	3	-	1
	9. ensure safety while carrying out maintenance activity	1	2	-	1
	10. ensure proper material handling of maintenance tools	2	2	-	-
	Post maintenance activities	6	16	-	4
	11. check for proper functioning of machine after maintenance	1	3	-	1
	12. run the machine and check for smooth functioning of machine parts	1	3	-	-
	13. repair further if further fine tuning is needed	1	3	-	-
	14. ensure the output material quality is as per quality requirement	1	3	-	1
	15. ensuring the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers	1	2	-	1
	16. ensure minimum time is taken for attending the breakdown, identifying the reason for breakdown and carryout the breakdown maintenance activities	1	2	-	1
	NOS Total	17	39	-	14
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N0410: Maintaining records and ensuring availability of spares in ring spinning	Maintaining records and ensuring availability of spares	11	14	-	5
	1. carryout maintenance auditing	1	2	-	1
	2. record the activities in the log book (report book) and update the machine history book	2	2	-	-
	3. verify the stock of various spares, accessories and lubricants and work out the indenting plan and placing indents	2	2	-	-
	4. refer the machinery catalogues and identify the correct spares needed	2	1	-	-
	5. check quality of materials received at stores, for e.g. bearings, wheels, arbours, machine spares, belts, brushes, spanners and other tools, etc	1	2	-	1
	6. carry out maintenance machine audit	1	2	-	1
	7. maintain the records of maintenance	1	1	-	1
	8. ensuring availability of spares and giving requisitions on need basis	1	2	-	1

	NOS Total	11	14	-	5
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	Self development	5	9	-	7
	1. perform own duties effectively	1	2	-	2

industry and organizational requirement	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
DGT/VSQ/N0101 : Employability Skills	NOS Total	15	20	-	15
	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.