

Textile Printing Machine operator

- ☒ Short Term Training (STT) ☐ Long Term Training (LTT) ☒ Apprenticeship
☒ Upskilling ☐ Dual/Flexi Qualification ☐ For ToT ☐ For ToA
☒ General ☐ Multi-skill (MS) ☐ Cross Sectoral (CS) ☐ Future Skills ☐ OEM

NCrF/NSQF Level: 2

Submitted By:

Textile Sector Skill Council

Contact Details:

Dr. Swapna Mishra
Chief Executive Officer,
M: 98182-17453

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

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Section 1: Basic Details

1.	Qualification Name	Textile Printing Machine operator	
2.	Sector/s	Textile & Handlooms	
3.	Type of Qualification ☐ New ☒ Revised ☐ Has Electives/ Options ☐ OEM	NQR Code & version of the existing /previous qualification: QG-02-TX-01894-2024-V1.1-TSC	Qualification Name of the existing/previous version: Textile Printing Machine operator
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA NA	
5.	National Qualification Register (NQR) Code & Version	QG-02-TX-04097-2025-V2-TSC	6. NCrF/NSQF Level: 2
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other) (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certificate	
8.	Brief Description of the Qualification	A Textile Printing Machine operator is responsible for preparation of design screen for printing machine, printing of fabric & smooth operation of machine without damaging either fabric or machine. This job requires the individual to have thorough knowledge of process flow and material flow in a processing mill for fabric production and should know about the important functions and operations of textile printing machine	

9.	Eligibility Criteria for Entry for a Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1" data-bbox="793 233 1789 412"> <tr> <th data-bbox="793 233 898 370">S. No.</th> <th data-bbox="898 233 1360 370">Academic/Skill Qualification (with Specialization - if applicable)</th> <th data-bbox="1360 233 1789 370">Relevant Experience (with Specialization - if applicable)</th> </tr> <tr> <td data-bbox="793 370 898 412">1</td> <td data-bbox="898 370 1360 412">Ability to read and write</td> <td data-bbox="1360 370 1789 412">Nil</td> </tr> </table> 18 Years				S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)	1	Ability to read and write	Nil						
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)															
1	Ability to read and write	Nil															
10.	Credits Assigned to this NOS- Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	9 Credits		11. Common Cost Norm Category (I/II/III) (wherever applicable): I													
12.	Any Licensing Requirements for Undertaking Training on This Qualification	Not Applicable															
13	Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	☒ Offline Only ☐ Online Only ☐ Blended <table border="1" data-bbox="1073 1008 1759 1222"> <tr> <th data-bbox="1073 1008 1318 1117">Training Delivery Mode</th> <th data-bbox="1318 1008 1472 1117">Theory (Hours)</th> <th data-bbox="1472 1008 1625 1117">Practical (Hours)</th> <th data-bbox="1625 1008 1759 1117">Total (Hours)</th> </tr> <tr> <td data-bbox="1073 1117 1318 1182">Classroom (offline)</td> <td data-bbox="1318 1117 1472 1182">87</td> <td data-bbox="1472 1117 1625 1182">183</td> <td data-bbox="1625 1117 1759 1182">270</td> </tr> <tr> <td data-bbox="1073 1182 1318 1222">Online</td> <td data-bbox="1318 1182 1472 1222">-</td> <td data-bbox="1472 1182 1625 1222">-</td> <td data-bbox="1625 1182 1759 1222">-</td> </tr> </table> (Refer Blended Learning Annexure for details)				Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)	Classroom (offline)	87	183	270	Online	-	-	-
Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)														
Classroom (offline)	87	183	270														
Online	-	-	-														

14.	Aligned to NCO/ ISCO Code/s (if no code is available mention the same)	NCO-2015/7322.13	
15.	Progression Path After Attaining the Qualification, wherever applicable <i>(Please show Professional and Academic progression)</i>	Assistant Fitter - Processing	
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi	
17.	Is similar NOS available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:	
18.	Is the NOS Amenable to Persons with Disability	☐ Yes ☒ No If "Yes", specify applicable type of Disability:	
19.	How participation of women will be encouraged?	This Qualification/NOS is made suitable for all categories of learners including the individuals, Students, professionals with the prescribed entry qualification.	
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	☒ Yes ☐ No TSC/N9015 - Follow machine, safety and organizational guidelines in textile sector TSC/N9016 - Follow teamwork, adaptability, and communication guidelines in textile sector	
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☐ Yes ☒ No Colleges ☐ Yes ☒ No	
22.	Name and Contact Details Submitting / Awarding Body SPOC <i>(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</i>	Name: Mr. Vignesh Raja Email: raja@texskill.in Contact No.: 7502954383 Website: https://texskill.in/	
23.	Final Approval Date by NSQC: 08.05.2025	24. Validity Duration: 3 years	25. Next Review Date: 08.05.2028

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

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

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

S. n o	NOS Module Name	NOS/Module Code & Version (if applicable)	Core / Non Core	NCrF/ NSQF Level	Credit as per NCrF	Training Duration					Assessment Marks					
						Th.	Pr.	OJT. Man	OJT. Rec	Total	Th.	Pr.	Proj .	Viva	Total	Weightage (if applicable)
1	Carryout shift change, production and quality analyse at fabric printing department	TSC/N5223,V 1.0	Core	2	5	45	105			150	200	410		50	660	70
2	Follow machine, safety and organizational guidelines in textile sector	TSC/N9015,V 2.0	Non Core	4	2.5	25	50			75	65	80		50	195	20
3	Follow teamwork, adaptability, and communication guidelines in textile sector	TSC/N9016,V 2.0	Non Core	4	0.5	5	10			15	15	20		10	45	5
4	Employability Skills	DGT/VSQ/N0101, V 1.0	Non Core	2	1	12	18			30	20	30			50	5
Duration (in Hours) / Total Marks					9	87	183			270	300	540		110	950	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	Credit as per NCrF	Training Duration					Assessment Marks					
						Th.	Pr.	OJT. Man	OJT. Rec	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (if applicable)
1	Carryout design preparation and quality analyse of the exposed design screen for fabric printing	TSC/N5224, V 1.0	Core	2	3	30	60			90	90	190		20	300	30
Duration (in Hours) / Total Marks					3	30	60			90	90	190		20	300	30

Assessment - Minimum Qualifying Percentage**Please specify any one of the following:**Minimum Pass Percentage – Aggregate at qualification level: **50%**

Pass Percentage of the Qualification is scheme specific, Unless specified by scheme, it is 50% or else scheme guidelines will override it.

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

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	• Ability to read & and write with 5 years of relevant experience (Min 1 year in production + Min 4 years as trainer +) • Grade 8 with two years of (NTC/ NAC) with Successfully passed Trainer Qualification MEP/Q2601, v2.0– Trainer (VET and Skills), Minimum pass percentage 80 percent and TSC/Q5208, v3.0 Textile Printing Machine operator, 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)	• Diploma (10th Class + 3 years) in the relevant trade with 4 years of relevant experience (or) • Diploma (12th Class +2 years) in the relevant trade with 3 year of relevant experience (or) • UG (3-years) in the relevant trade with 2 years of relevant experience with successfully passed MEP/Q2701, v2.0 – Assessor (VET and Skills), Minimum pass percentage 80 percent and TSC/Q5208, v3.0 Textile Printing Machine operator, 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: 20
5.	Estimated number of people to be trained: 1000
6.	Evidence of Concurrence/Consultation with Line/State Departments (In case of regulated sectors): (Yes/No): Yes If "No", why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

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

Annexure 1: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	Fundamental knowledge • Basic working/ operational knowledge in the area of work. • Understands basic materials, tools, applications in a limited context. • For self-help group member/ micro-entrepreneur basic working knowledge of business activity, raw material, finished product/ service, and local market. • Able to understand and perform repetitive tasks under instructions and supervision. • Understand the basic quality, safety and general hygiene norms. Familiarity with environmental aspects.	A textile printing machine operator carry out process that are repetitive on regular basis like preparation of design screen for printing machine, printing of fabric & smooth operation of machine without damaging either fabric or machine with instructions from his supervisor. This operator helps in producing defect free designs and operating the printing machine with proper control of process parameters. Check the quality of exposed design screen and the quality of the printed fabric. For unprecedented situations, he/she has to report to the supervisor. Hence NSQF Level is 2	NSQF Level 2
Professional and Technical Skills/ Expertise/ Professional Knowledge	Limited finite skills • Limited related skills in predefined context. • Performs structured tasks in a limited range of functional roles. • Uses known solutions to familiar problems. • Skill to identify and use relevant tools and materials in a limited context of work and quality. • For self-help group members, micro-entrepreneurs working	A textile printing machine operator understands context of work and quality with respect to process flow and material flow and safety standards in a typical textile processing unit and responsibilities of a machine operator. The operator should also know the various defects in the fabric and screens due to processing & their remedy. This operator should understand functions and methodology for operating different material handling equipment, and should know	NSQF Level 2

	skills for making or manufacturing (handicraft, traditional items, etc) service & marketing etc.	functions & operations of textile printing machine. . Hence NSQF Level is 2.	
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Employment readiness • Ability to read and write and do simple computational math – numeracy and literacy. • Receive and transmit written and oral messages/ communication clearly. • Works within a team as assistant • Understanding of safety, hygiene and environment, social, political and religious diversity. • Have broader but basic Employability Skills including basic self-employment/ entrepreneurial Mind-set for mini businesses • Have understanding of use of Financial and Digital literacy, Aadhar and Mobile, digital payments etc.	A textile printing machine operator should be able to receive and transmit written and oral messages in local/regional language for making daily work report, write grievance complaint application, comprehends written instructions, and communicates with the supervisor and others appropriately and convey information effectively. The operator must comprehend the regulations, natural, social and political environment of a typical processing unit. Hence NSQF Level is 2	NSQF Level 2
Broad Learning Outcomes/Core Skill	Carry out the Predefined tasks • The candidate may carry out a job requiring limited range of routine and predictable activities. • Tasks are mostly performed under instructions and supervision • Focus on practice of skill and work, both predefined and new. • For self-help group members, micro- entrepreneurs (JSS) end	A textile printing machine operator assist in professional works like taking charge and handing over of the shift, patrolling the machine and for ensuring quality production. This operator possess limited service skill to perform routine operations like operating the machine, carrying out preparatory activities for operations in the machine by loading/unloading fabric, managing printed screens at the print stations, setting print repeat on the machine,	NSQF Level 2

	to end clear understanding of process and delivery. Understands basic safety and general hygiene norms.	by carrying out preparation of dyestuff and auxiliaries, and by regular checking of the printed fabric against standard. Demonstrate the organization's rules, codes and guidelines (including timekeeping). The importance of running maintenance and regular cleaning, Safety procedures to be followed in the machine. In case of unexpected faults or issues the operator will report to the shift supervisor. Hence NSQF Level is 2.	
Responsibility	Assistant - Works mostly under instruction and supervision. - Limited responsibility for delivery and quality of work. - For self-help group members, micro-entrepreneurs (JSS) end to end responsibility of production and marketing in local markets.	A Printing Machine Operator works under instruction and close supervision like taking charge of the shift after discussing in detail the issues faced with respect to the quality, production and safety, reports to the shift superior, maintaining work area, tools and machines and contributes in making the workplace healthy, safe and secure and follows the industry & organizational compliance. The Printing Machine Operator has no responsibility for own work and learning. Hence NSQF Level is 2	NSQF Level 2

Annexure 2: Tools and Equipment**List of Tools and Equipment**

Sr. No	Equipment Name	Minimum number of Equipment required (per batch of 30 trainees)
1.	Printing Machine	1
2.	Fabric	100
3.	Empty Fabric Rolls	1
4.	Rotary / Flat Bed Screen Printing Machine as a part of textile processing mill	1
5.	Fabric	100
6.	Empty Fabric Rolls	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) P 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	—	nsi@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	Eeshanau Foundation	Chaningleima Oinam	Secretary	Place: Imphal	9856031407 / 8974998624	chaningoinam@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	–
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	40	36	34	17	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/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	2	2	-	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	1	1	-	-
	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	1	1	-	1
	7. follow specified ergonomics for the assigned job role in textile sector	1	1	-	1
	8. collect and store worn-out spare parts at specified location	1	1	-	-
	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	2	-	2
22. practice mock drills and evacuation procedures organized by industry	2	2	-	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	-	1
26. follow the guidelines while working in hazards atmosphere	2	2	-	1
27. assist in designing the safety plans with peers and superiors	2	2	-	1
28. follow the approved safety plans at workplace	2	2	-	1
Organizational standards and policies	16	20	-	10
29. perform assigned duties as per organization's protocol within scheduled time period	3	3	-	2

	30. follow organization policies, quality standards, rules and regulations for working in textile sector	3	3	-	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	4	-	1
	34. submit lost and found articles as per standard protocol	2	4	-	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	1	-	-
	2. carry out tasks as per instructions received from superiors	-	1	-	-
	3. contribute to team work as per allocated responsibility to complete the task by using appropriate tools and methods	1	1	-	1
	4. build trust with team mates and superiors	1	1	-	-
	5. implement the ideas after superior's approval at work place	1	1	-	1
	6. communicate clearly with the team members as per standard protocol	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
	9. use correct and respectful terms while communicating as per industry policy	1	1	-	-
	10. express views proactively and effectively	-	1	-	1
	11. make efforts to resolve difference of opinion with superiors and team members	1	1	-	-

	12. report to superior for problems identified in assigned duty	1	2	-	-
	13. report the daily performance to superior in prescribed manner and formats	1	2	-	1
	Adaptability	5	5	-	5
	14. adapt to flexible work environment for the assigned task	1	1	-	1
	15. adapt to work with various members of different ethnicity, gender and PwD without biases	1	1	-	1
	16. consider opinions of colleagues, fitters, superiors for the assigned task	1	1	-	1
	17. plan the work-routine within the limits of the responsibility	1	1	-	1
	18. adopt new ideas after due approval from superior for improving the productivity	1	1	-	1
	NOS Total	15	20	-	10
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N5223. Carryout shift change, production and quality analyse at fabric printing department	Taking charge of shift from Printing machine operator	9	10		11
	1. come at least 10 - 15 minutes earlier to the work place	-	-	-	1
	2. bring the necessary operational tools to the department	1	1	-	1
	3. Meet the previous shift Printing machine operator and discuss with him/ her regarding the issues faced by them with respect to the quality production, spare safety or any other specific instruction etc.	1	1	-	1
	4. understand the fabric being processed & process running on the machine	1	1	-	1
	5. ensure the technical details are mentioned on the job card display on the machine	-	1	-	1

6. check for the availability of the spare trolley for unloading the fabric	1	1	-	1
7. check the next batch to be processed is ready near the machine	1	1	-	1
8. ensure the required dyes & chemicals are already weighed & prepared	1	1	-	1
9. check the cleanliness of the machines & other work areas	1	1	-	1
10. question the previous shift operator for any deviation in the above and should bring the same to the knowledge of his/ her shift superior as well as that of the previous shift.	1	1	-	1
11. Take over the shift from the outgoing operator in a proper manner	1	1	-	1
Handing over shift to Printing machine operator	9	10		11
12. ensure in providing the details regarding fabric quality & the process running on the machine	-	-	-	1
13. provide all relevant information regarding the stoppages or breakdown in the machine, any damage to the fabric or machine.	1	1	-	1
14. ensure the empty trolley is near the machine for unloading the fabric	1	1	-	1
15. ensure the next lot to be processed is ready near the machine already stitched & arranged properly	1	1	-	1
16. ensure the required dyes & chemicals for the next lot or next process are weighed & prepared	1	1	-	1
17. get clearance from the incoming counterpart before leaving the work spot	-	1	-	1
18. report to his/ her shift superiors as well as that of the incoming shift operator in case his/ her counterpart doesn't report for the incoming shift	1	1	-	1
19. ensure the shift has to be properly handed over to the incoming shift operator	1	1	-	1

20. 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
21. collect the wastes from waste collection bags, weigh them and transport to storage area	1	1	-	1
22. ensure the machine and its work place is clean	1	1	-	1
Carry out preparatory activities for operations in the machine	52	110		5
1. understand the task mentioned in the work order	7	15	-	1
2. ensure that the machine is empty & clean	7	15	-	1
3. load the fabric from the batch/trolley in the center of the machine at the feeding point	7	15	-	-
4. ensure fabric is crease-free and lint/ dust free	7	15	-	1
5. place the screens on the print station/ printing head according to the colours to be printed	8	15	-	-
6. set the repeat according to the design to be printed	8	15	-	1
7. apply glue /adhesive material to the printing blanket for sticking	8	20	-	1
Preparation of Print paste	50	110		5
8. get all dyes & printing chemical / auxiliaries weighed	12	27	-	1
9. mix the thickener, binder & other auxiliaries first to get the required viscosity	12	27	-	1
10. add dyes/ pigments to the thickening paste according to the shade	13	28	-	1
11. filter the print paste to avoid choke up of design screen	13	28	-	2

Operate the machine for specified tasks as per Work Order	20	44		5
12. check screen zero position on the blanket for proper fabric printing before starting to print fabric	3	7	-	1
13. Start the machine & adjust the squeeze pressure if registration is poor or uneven	3	7	-	-
14. adjust the squeeze pressure if registration is poor or uneven	3	7	-	1
15. maintain synchronized & continuous feeding of fabric	3	7	-	1
16. check for pin holes & other defects due to blockage of screen	4	8	-	1
17. clean the screens if machine is stopped for longer periods	4	8	-	1
Clean the machine on a regular basis and carryout preventive maintenance activities	20	42		5
18. make sure the fabric is dried properly after printing	4	8	-	1
19. keep the machine clean at all times	4	8	-	1
20. follow the preventive maintenance schedule & ensure the machine is running smoothly	4	8	-	1
21. check that all controls are functioning properly	4	9	-	1
22. clean the printing blanket before changing to new design or new matching	4	9	-	1
Cutting the sample after dryer	20	42		5
1. cut the sample after the dryer	6	14	-	1
2. fix/ cure the printed sample in a steamer or oven	7	14	-	2
3. wash the sample after curing & dry it	7	14	-	2
Checking the sample with the standard	20	42		3

	4. compare the sample with standard as mentioned in the work order	10	21	-	1
	5. take the sample to supervisor if its not matching to standard	10	21	-	2
	NOS Total	200	410		50
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Option 1 – TSC/N5224: Carryout design preparation and quality analyse of the exposed design screen for fabric printing	Carry out preparatory activities for screen making	24	48		5
	1. understand the task mentioned in the work order	3	6	-	-
	2. check the art work or the design film to be exposed	3	7	-	1
	3. check the design repeat	3	7	-	1
	4. check the no. of colours to be printed	3	7	-	1
	5. clean the screen frames	4	7	-	1
	6. select the right mesh size depending upon the design to be printed	4	7	-	-
	7. cut the required no. of mesh fabric as per size of screen	4	7	-	1
	Operate the machine for the specified task as per work order	22	48		5
	8. stretch the mesh on all frames evenly & leave it for few hours	2	4	-	-
	9. re-stretch the mesh again & stick it to the frame with glue	2	4	-	1
	10. degrease the screen thoroughly using screen degreaser	2	4	-	-
	11. apply solvent resistant direct emulsion evenly to the screen	2	4	-	1
	12. dry the screen completely before exposure	2	4	-	-
	13. maintain optimum drying conditions in the drying area	2	5	-	1

14. ensure the drying area is warm & dust free	2	5	-	-
15. expose the screen using a light exposure unit	2	6	-	1
16. wash the exposed screen thoroughly	3	6	-	-
17. dry the screen completely	3	6	-	1c
Clean the machine on a regular basis and carryout preventive maintenance activities	22	48		5
18. keep the exposing machine & other equipment clean at all times	3	8	-	-
19. follow the preventive maintenance schedule & ensure the machine is running smoothly	3	8	-	1
20. check that all controls are functioning properly	3	8	-	1
21. replace the exposing unit bulbs when its due	3	8	-	1
22. keep the exposing & drying area dust free	5	8	-	1
23. Store the screen in the rack for repeat orders	5	8	-	1
Checking the quality of exposed design screen	22	46		5
1. examine the screen under white light for pinhole & other defects	5	11	-	1
2. do the touching of any pin holes or other defects	5	11	-	1
3. mask the sides with tape to avoid wastage of print paste	6	12	-	1
4. fix the end rings to the screen in case of Rotary screen	6	12	-	2
NOS Total	90	190		20

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.