







## **Model Curriculum**

### **Textile Printing Machine operator**

SECTOR : TEXTILE

**SUB-SECTOR**: PROCESSING - TEXTILES

OCCUPATION : Dyeing & Printing

REF ID : TSC/Q5208, V 2.0

NSQF LEVEL 2















### Certificate

# CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

#### TEXTILE SECTOR SKILL COUNCIL

for the

#### MODEL CURRICULUM

Complying to National Occupational Standards of Job Role/ Qualification Pack: <u>'Textile Printing Machine operator'</u> QP No. 'TSC/Q 5208' <u>NSQF Leve</u>l 2'

Date of Issuance: ! š®bs

Valid up to: ! š@g · ---

 $\hbox{* Valid up to the next review date of the Qualification Pack}$ 

(Dr. Swapna Mishra)

Director (C&T)

(Textile Sector Skill Council)









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## **Textile Printing Machine operator**

#### **CURRICULUM / SYLLABUS**

This program is aimed at training candidates for the job of a "<u>Qualifications Pack – Textile Printing Machine operator</u>", in the "<u>Textile</u>" Sector and aims at building the following key competencies amongst the learner

Program Name	Textile Printing Machin	ne operator	
Qualification Pack Name & Reference ID.	Textile Printing Machin Q5208, version 2.0	e operator TSC/	
Version No.	2.0	Version Update Date	31.03.2022
Pre-requisites to Training	Ability to read and writ	е	
Training Outcomes	Compulsory NOS  Maintain work area, Gain knowledge on Maintain health, saf Comply with industr Perform taking char Operate the Printing Prepare the sample Option 1 – Printing So Become well ve Learn and famili	for check quality of printed creen Making	vorking ace irement ver shift fabric shift and handing over shift









S. No	Module Type	Module	Key Learning Outcomes	Equipment Required
1.	Compulsory	Follow machine, safety & organizational guidelines in Textile sector  Theory Duration (hh:mm) 25:00  Practical Duration (hh:mm) 50:00  Corresponding NOS Code TSC/N9015	<ul> <li>Differentiate various types of tools used for cleaning and maintenance.</li> <li>Explain the objectives of each cleaning tool used in production operation.</li> <li>Discuss the significance of safe handling procedures of tools and equipment.</li> <li>Brief the importance and written instructions on the allocated machines.</li> <li>Discuss the significance of minimizing the wastage of material, effort, and time.</li> <li>Prepare a draft schedule for cleaning and waste collection for the assigned job role.</li> <li>List the available types of material handling equipment and handling methods used in the production department.</li> <li>Discuss the types and importance of PPE used in the allotted production department.</li> <li>Demonstrate the procedure to handle materials, tools, PPE, and machines.</li> <li>Demonstrate identification of the appropriate tools and equipment for the respective job.</li> <li>Demonstrate the scheduled cleaning of machines and equipment.</li> <li>Demonstrate the inspection of machine guards</li> <li>Demonstrate the segregation of recyclable, non-recyclable, hazardous wastes</li> <li>Demonstrate the identification of abnormal sounds emanating from faulty/worn-out machine parts.</li> <li>Demonstrate handling of fire extinguishers.</li> </ul>	Material handling equipment, and tool kits of operational, cleaning maintenance activities, Seating arrangement for 25 people.
2.	Compulsory	Follow teamwork, adaptability and communication guidelines in Textile sector  Theory Duration (hh:mm) 05:00  Practical Duration (hh:mm) 10:00  Corresponding NOS Code	<ul> <li>Discuss the importance of teamwork and following industry protocols at the workplace.</li> <li>Explain the limits and responsibilities for the assigned duties in the textile sector.</li> <li>Summarize emergency contact numbers, details of officials, reporting Protocols, and formats.</li> <li>List hierarchy of communication and communication etiquettes in the textile sector.</li> <li>Demonstrate the ability to work in a dynamic work environment by developing coping mechanisms, survival tactics, and traits of flexibility.</li> <li>Create a sample backup work plan</li> </ul>	Video visuals of basic communications and team working, models of communicating and team working area at your job, Seating arrangement for 25 people









		TSC/N9016	for the shortage of manpower, raw materials, etc	
3.	Compulsory	Carryout shift change, production and quality analyse at fabric printing department  Theory Duration (hh:mm) 60:00  Practical Duration (hh:mm) 150:00  Corresponding NOS Code TSC/N5223	<ul> <li>Learning general discipline</li> <li>Become well verse with basic skills ofcommunication</li> <li>Understand the role of cardingoperator</li> <li>Perform tasks while taking charge ofshift and handing over shift</li> <li>Become familiar in faults identification</li> <li>Gain knowledge on machine parts&amp; its function</li> <li>Gain knowledge on preparationactivities of Printing machine</li> <li>Perform Starting and feedingoperation</li> <li>Perform machine settings regarding processing parameters</li> <li>Perform cutting of the sample</li> <li>Perform and check the processed sample matching withthe standard</li> </ul>	<ul> <li>Printing Machine – 1 Nos.</li> <li>Fabric – 100 mtrs.</li> <li>Empty Fabric Rolls – 1 Nos.</li> </ul>
4	Option 1 – Printing Screen Making	Carryout design preparation and quality analyse of the exposed design screen for fabric printing  Theory Duration (hh:mm) 30:00  Practical Duration (hh:mm) 60:00  Corresponding NOS Code TSC/N5224		<ul> <li>Rotary / Flat Bed Screen Printing Machine as a part of textile processing mill – 1 Nos.</li> <li>Fabric – 100 mtrs.</li> <li>Empty Fabric Rolls – 1 Nos.</li> </ul>









5 Employability Skills (30 Hours)

Theory Duration (hh:mm) 12:00

Practical Duration (hh:mm) 18:00

- Discuss the importance of Employability Skills in meeting the job requirements.
- Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen.
- Show how to practice different environmentally sustainable practices
- Discuss 21st century skills.
- Display positive attitude, self-motivation, problem solving, time management skills and continuous learning mindset in different situations.
- Use appropriate basic English sentences/ phrases while speaking
- Demonstrate how to communicate in a well -mannered way with others.
- Demonstrate working with others in a team
- Show how to conduct oneself appropriately with all genders and PwD
- Discuss the significance of reporting sexual harassment issues in time
- Discuss the significance of using financial products and services safely and securely.
- Explain the importance of managing expenses, income, and savings.
- Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws
- Show how to operate digital devices and use the associated applications and features, safely and securely
- Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely.
- Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges.
- Differentiate between types of customers
- Explain the significance of identifying customer needs and addressing them
- Discuss the significance of maintaining hygiene and dressing appropriately.
- · Create a biodata
- Use various sources to search and apply for jobs
- Discuss the significance of dressing up neatly and maintaining hygiene for an interview
- Discuss how to search and register for apprenticeship opportunities.

Class room requirements: 25 people seating capacity with a screen and projector









Compulsory	Unique Equipment Required:
Duration:	Apron, head cap, nose mask, earplug, shoe, Fabric roll, Fabric trolley
Theory	
Duration	
102:00	
Practical	
Duration	
228:00	

**Grand Total Course Duration: 330 Hours, 0 Minutes** 

(This syllabus/ curriculum has been approved by TSC: Textile Sector Skill Council)









# Trainer Prerequisites for Job role: "Textile Printing Machine operator" mapped to Qualification Pack: "Textile Printing Machine operator / TSC/Q5208, Version 2.0"

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack "Textile Printing Machine operator /TSC/Q5208, Version 2.0".
2	Personal Attributes	Aptitude for conducting training, and pre / post work to ensure competent, Employable candidates at the end of the training. Strong communication skills, interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well-organized and focused, eager to learn and keep oneself updated with the latest in the mentioned field.
3	Minimum Educational Qualifications	Basic Literacy & Numeracy
4a	Domain Certification	Certified for Job Role: "Textile Printing Machine operator" mapped to QP: "Textile Printing Machine operator TSC Q5208, Version 2.0 Minimum accepted score 80%.
4b	Platform Certification	Required that the Trainer is certified for MEP/Q 0102 Job Role: "Trainer" with at least 80% score
5	Experience	1 year of Specific sector & 4 years of Trainer experience

#### **Employability Trainer Prerequisites**

		Т	rainer Prerequi	sites		
Minimum Educational	Specialization	Releva Experi	nt Industry ence	Trainii	ng Experience	Remarks
Qualification		Years	Specialization	Years	Specialization	
Graduate/CITS	Any Discipline			2	Teaching Experience	Prospective ES trainer should:
Current ITI Trainers	Employability Skills Training (3 days full- time course done between 2019-2022)					<ul> <li>have good communication skills</li> <li>be well versed in English</li> </ul>
Certified current EEE trainers (155 hours)	from Management SSC (MEPSC)					<ul> <li>have digital skills</li> <li>have attention to detail</li> <li>be adaptable</li> </ul>
Certified Trainer	Qualification Pack: Trainer (MEP/Q0102)					have willingness to learn









#### **Annexure: Assessment Criteria**

Job Role: Textile Printing Machine operator

Qualification Pack: Textile Printing Machine operator (TSC/Q 5208)

Sector Skill Council: Textile Sector Skill Council

#### Guidelines for assessment :-

- 1. Criteria for assessment for each qualification pack will be created by the Sector Skill Council. Each performance criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for theory & skill practical for each PC.
- 2. The assessment for the theory part will be based on knowledge bank of question created by the SSC.
- 3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below)
- 4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on these criteria.
- 5. To pass the qualification pack, every trainee should score a minimum of 50%.
- 6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N9015: Follow machine, safety &	Maintaining the work area, tools and machines	10	10	-	6
organizational guidelines in Textile sector	handle materials, machinery, equipmentand tools as per standard procedure	-	-	-	-
	use appropriate material handling equipment and tools as per standard procedure	-	-	-	-
	3. keep the equipment, machine and work area clean using appropriate cleaning tools asper standard procedure	-	-	-	-
	4. undertake minor routine maintenance of equipment and tools a per standard maintenance procedure	-	-	-	-
	maintain record for defective and unsafeequipment and tools	-	-	-	-
	6. verify that machine guards are in place asper standard specifications	-	-	-	-
	7. follow specified ergonomics for the assignedjob role in textile sector	-	-	-	-
	collect and store worn-out spare parts atspecified location	-	-	-	-
	report the condition of worn out part as perstandard procedure	-	-	-	-
	Greening and energy conservation in textile sector	7	10	-	6
	10. segregate wastes such as recyclable, non-recyclable, hazardous		-		-









as per standard protocol				
11. optimize usage of material and resourcesincluding water, electricity in various tasks	-	-	-	-
12. switch off the machines and lights whennot in use	-	-	-	-
Health, safety and response to emergencies attextile sector	32	40	-	28
13. use Personal Protective Equipmer (PPEs) like body protector, ear plugs, nose mask, headcap, etc. as per guidelines	-	-	-	-
14. identify abnormal sounds emanating fromfaulty or worn out machine parts and take appropriate action	-	-	-	-
15. avoid dependency on any type of intoxicants	-	-	-	-
16. maintain social distance as per th instruction at workplace	-	-	-	-
17. report hazardous material to superiors atworkplace	-	-	-	-
18. use the various appropriate fire extinguishers on different types of fires correctly	-	-	-	-
19. follow the specified steps in case ofelectricity failure	-	-	-	-
20. lift heavy objects using correct liftingprocedures	-	-	-	-
21. recall emergency exits, safe spots etc. ofworkplace	-	-	-	-
22. practice mock drills and evacuationprocedures organized by industry	-	-	-	-
23. assist others to reach to safe spots inemergency situations	-	-	-	-
24. provide basic first aid for injury to peersand report to superiors	-	-	-	-
25. interpret different signs, alarms an takeaction appropriately	-	-	-	-
26. follow the guidelines while working inhazards atmosphere	-	-	-	-
27. assist in designing the safety plans withpeers and superiors	-	-	-	-
28. follow the approved safety plans a workplace	-	-	-	-
Organizational standards and policies	16	20	-	10
29. perform assigned duties as per organization's protocol within scheduled timeperiod	-	-	-	-
30. follow organization policies, quality standards, rules and regulations for working intextile sector	-	-	-	-









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	31. motivate colleagues to follow				
	operationalguidelines of organization	-	-	-	-
	32. wear specified uniform and follow				
	etiquetteas per standard guidelines for	-	-	-	-
	the textile sector				
	33. maintain hygienic working				
	atmosphere asper protocol of the	-	-	-	-
	textile sector				
	34. submit lost and found articles as				
	perstandard protocol	-	-	-	-
	NOS Total	65	80	-	50
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TSC/N9016. Follow	Teamwork, trust and communicatio	10	15	-	5
teamwork,	contribute to create a positive work				
adaptability and	environment in the team	-	-	-	-
communication	carry out tasks as per instructions				
guidelines in Textile	receivedfrom superiors	-	-	-	-
sector	3. contribute to team work as per				
	allocatedresponsibility to complete the	-	-	_	-
	task by using appropriate tools and				
	methods				
	4. build trust with team mates and	-	-	-	-
	superiors				
	5. implement the ideas after superior'				
	approval at work place	-	-	-	-
	6. communicate clearly with the team				
	members as per standard protocol	-	-	-	-
	7. use suggested hand signs, vocal				
	soundsignals to convey the informatio	-	-	-	-
	in the production area				
	8. listen effectively to the ideas and				
	concernsof the peers	-	-	-	-
	use correct and respectful terms				
	whilecommunicating as per industry	-	-	-	-
	policy				
	10. express views proactively and	-	-	-	-
	effectively				
	11. make efforts to resolve difference				
	ofopinion with superiors and team	-	-	-	-
	members				
	12. report to superior for problems				
	identifiedin assigned duty	-	-	-	-
	13. report the daily performance to				
	superiorin prescribed manner and	-	-	-	-
	formats	E	<i>E</i>		E
	Adaptability	5	5	-	5
	14. adapt to flexible work environment				
	for theassigned task	-	-	-	-
	15. adapt to work with various				
	members ofdifferent ethnicity, gender	-	-	-	-
	and PwD without biases				
	16. consider opinions of colleagues,				
	fitters,superiors for the assigned task	-	-	-	-









	17. plan the work-routine within the imits ofthe responsibility	-	-	-	-
	18. adopt new ideas after due approval fromsuperior for improving he productivity	-	-	-	-
	NOS Total	15	20	-	10
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
shift change,	Taking charge of shift from Printing machine operator	9	10		11
production and quality analyse at fabric printing	1. come at least 10 - 15 minutes earlier to the work place	-	-	-	-
department	bring the necessary operational tools to the department	-	-	-	-
	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.  4. understand the fabric being processed & process running on the machine	-	-	-	-
	5. ensure the technical details are mentioned on the job card display on the machine	-	-	-	-
	6. check for the availability of the spare trolley for unloading the fabric	-	-	-	-
	7. check the next batch to be processed is ready near the machine	-	-	-	-
	8. ensure the required dyes & chemicals are already weighed & prepared	-	-	-	-
	9. check the cleanliness of the machines & other work areas	-	-	-	-
	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.	-	-	-	-
	11. Take over the shift from the outgoing operator in a proper manner	-	-	-	-
	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	-	-	-	-
	13. provide all relevant information regarding the stoppages or breakdown in the machine, any damage to the fabric or machine.	-	-	-	-









1	i	ı	i	1 1
14. ensure the empty trolley is near				
the machine for unloading the fabric	-	-	-	-
15. ensure the next lot to be				
processed is ready near the machine	-	-	-	-
already stitched & arranged properly				
16. ensure the required dyes &				
chemicals for the next lot or next	_	_	_	_
process are weighed & prepared				
17. get clearance from the incoming				
counterpart before leaving the work	_	_	_	_
spot	_	_	_	_
•				
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				
19. ensure the shift has to be				
properly handed over to the incoming	-	-	-	-
shift operator				
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				
21. collect the wastes from waste				
collection bags, weigh them and	_	_	_	_
transport to storage area				
22. ensure the machine and its work				
place is clean	_	_	_	_
Diace is clean				
			_	
Carry out preparatory activities for	52	110	_	5
Carry out preparatory activities for operations in the machine	52	110	-	5
Carry out preparatory activities for operations in the machine  1. understand the task mentioned in	52	110	-	5
Carry out preparatory activities for operations in the machine	<b>52</b>	110	-	5
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Carry out preparatory activities for operations in the machine  1. understand the task mentioned in the work order	<b>52</b> -	110 -	-	
Carry out preparatory activities for operations in the machine  1. understand the task mentioned in the work order  2. ensure that the machine is empty	- -		-	
Carry out preparatory activities for operations in the machine  1. understand the task mentioned in the work order  2. ensure that the machine is empty & clean  3. load the fabric from the	- - -	- -	-	
Carry out preparatory activities for operations in the machine  1. understand the task mentioned in the work order  2. ensure that the machine is empty & clean  3. load the fabric from the batch/trolley in the center of the	- - -	- - -	-	
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	11. filter the print paste to avoid choke up of design screen	-	-	_	-
	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	-	-	-	-
	13. Start the machine &adjust the squeeze pressure if registration is poor or uneven	-	-	-	-
	14. adjust the squeeze pressure if registration is poor or uneven	-	-	-	-
	15. maintain synchronized & continuous feeding of fabric	-	-	-	-
	16. check for pin holes & other defects due to blockage of screen	-	-	-	-
	17. clean the screens if machine is stopped for longer periods	-	-	-	-
	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	-	-	-	-
	19. keep the machine clean at all times 20. follow the preventive	-	-	-	-
	maintenance schedule & ensure the machine is running smoothly	-	-	-	-
	21. check that all controls are functioning properly	-	-	-	-
	22. clean the printing blanket before changing to new design or new matching	-	-	-	-
	Cutting the sample after dryer	20	42		5
	cut the sample after the dryer	-	-	-	-
	2. fix/ cure the printed sample in a steamer or oven	-	-	-	-
	wash the sample after curing & dry it     Checking the sample with the	-	-	-	-
	standard	20	42		3
	compare the sample with standard as mentioned in the work order	-	-	-	-
	5. take the sample to supervisor if its not matching to standard	-	-	-	-
	NOS Total	200	410		50
Module	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Option 1 – TSC/N5224: Carryout		24	48		5
design preparation and quality analyse of	understand the task mentioned in the work order	-	-	-	-
	2. check the art work or the design film to be exposed	-	-	-	-









#### printing

3. check the design repeat	_	_	_	_
4. check the no. of colours to be printed	-	-	-	-
5. clean the screen frames	-	-	-	-
6. select the right mesh size depending upon the design to be printed	-	-	-	-
7. cut the required no. of mesh fabric as per size of screen	-	-	-	-
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	-	-	-	-
9. re stretch the mesh again & stick it to the frame with glue	-	-	-	-
10. degrease the screen thoroughly using screen degreaser	-	-	-	-
11. apply solvent resistant direct emulsion evenly to the screen	-	-	-	-
12. dry the screen completely before exposure	-	-	-	-
13. maintain optimum drying conditions in the drying area	-	-	-	-
14. ensure the drying area is warm & dust free	-	-	-	-
15. expose the screen using a light exposure unit	-	-	-	-
16. wash the exposed screen thoroughly	•	-	-	-
17. dry the screen completely		-	-	-
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	-	-	-	-
19. follow the preventive maintenance schedule & ensure the machine is running smoothly	-	-	-	-
20. check that all controls are functioning properly	-	-	-	-
21. replace the exposing unit bulbs when its due	ı	-	-	-
22. keep the exposing & drying area dust free	-	-	-	-
23. Store the screen in the rack for repeat orders	-	-	-	-
Checking the quality of exposed design screen	22	46		5
examine the screen under white light for pinhole & other defects	-	-	-	-









NOS Total	90	190		20
4. fix the end rings to the screen in case of Rotary screen	-	-	-	-
mask the sides with tape to avoid wastage of print paste	-	-	-	-
do the touching of any pin holes or other defects	-	-	-	-









National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory Marks	Practical Marks	Viva Marks
DGT/VSQ/N0101	Introduction to Employability Skills			1	1	-
– Employability	1. understand the significance of					
Skills	employability skills in meeting the					
	job requirements					
	Constitutional values – Citizenship			1	1	-
	2. identify constitutional values, civic					
	rights, duties, personal values and					
	ethics and environmentally					
	sustainable practices.					
	Becoming a Professional in the 21st			1	3	_
	Century			1	3	
	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	_
	4. speak with others using some basic			2	3	_
	English phrases or sentences					
	Communication Skills			1	1	
				1	1	-
	5. follow good manners while communicating with others					
	6. work with others in a team					
	Diversity & Inclusion			1	1	
				1	1	-
	7. communicate and behave appropriately with all genders and					
	PwD					
	8. report any issues related to sexual					
	harassment					
	Financial and Legal Literacy			3	4	-
	9. use various financial products and					
	services safely and securely					
	10. calculate income, expenses,					
	savings etc.					
	11. approach the concerned authorities					
	for any exploitation as per legal					
	rights and laws					









Essential Digital Skills		4	6	-
12. operate digital devices and use its				
features and applications securely				
and safely				
13. use internet and social media				
platforms securely and safely				
Entrepreneurship		3	5	-
14. identify and assess opportunities				
for potential business				
15. identify sources for arranging				
money and associated financial				
and legal challenges				
Customer Service		2	2	-
16. identify different types of				
customers				
17. identify customer needs and				
address them appropriately.				
18. follow appropriate hygiene and				
grooming standards.				
Getting ready for apprenticeship &		1	3	
Jobs		1	3	-
19. create a basic biodata				
20. search for suitable jobs and apply				
21. identify and register apprenticeship				
opportunities as per requirement				
NOS Total	50	20	30	-
Grand Total	1250	390	730	130
I L			1	II.







#### **Textile Sector Skill Council**

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