

Model Curriculum

Autoconer Tenter

SECTOR : TEXTILE
SUB-SECTOR : SPINNING - TEXTILES
OCCUPATION : POST SPINNING OPERATIONS
REF ID : TSC/Q0301, VERSION 3.0
NSQF LEVEL : 3



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: 'AUTOCONER TENTER' QP No. 'TSC/ Q 0301' **NSQF Level 3**

Date of Issuance: **November 25th, 2021**

Valid up to: **November 25th, 2024**

* Valid up to the next review date of the Qualification Pack



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Autoconer Tenter

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Autoconer Tenter”, in the “Textile” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Autoconer Tenter		
Qualification Pack Name & Reference ID.	Autoconer Tenter TSC/Q0301, version 3.0		
Version No.	3.0	Version Update Date	25.11.2021
Pre-requisites to Training	<ul style="list-style-type: none"> • Grade 9 with No Experience (OR) • Grade 8 pass and pursuing continuous schooling in regular school with vocational subject with no experience (OR) • 8th grade pass with 1 year of relevant experience (OR) • 5th grade pass with 4 years of relevant experience (OR) • Ability to read and write with 5 years of experience 		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Become well verse with taking charge of shift and handing over shift • Learn and operate Autoconer machine and perform tenting activities • Perform cops filling and cone doffing operations • Perform cleaning and maintenance activities • Maintain work area, tools and machines • Gain behavioural skill for team working • Maintain health, safety and security at work place • Comply with industry and organisational requirement 		

This course encompasses 8 out of 8 National Occupational Standards (NOS) of “Autoconer Tenter” Qualification Pack issued by “TSC: Textile Sector Skill Council”

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Taking charge of shift and handing over shift to the Autoconer tenter</p> <p>Theory Duration (hh:mm) 15:00</p> <p>Practical Duration (hh:mm) 30:00</p> <p>OJT Duration (hh:mm) 15:00</p> <p>Corresponding NOS Code TSC/N 0301</p>	<ul style="list-style-type: none"> Learning general discipline Become well verse with basic skills of communication Understand the role of Autoconer Tenter Perform tasks while taking charge of shift and handing over shift Become familiar in faults identification 	<p><u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
2	<p>Operating the Autoconer and carrying out general tenting activities</p> <p>Theory Duration (hh:mm) 15:00</p> <p>Practical Duration (hh:mm) 60:00</p> <p>OJT Duration (hh:mm) 30:00</p> <p>Corresponding NOS Code TSC/N 0302</p>	<ul style="list-style-type: none"> Gain knowledge about machine parts & its function Gain knowledge about control switches and display board operation perform starting and stopping Autoconer machine perform and operating cone and empties conveyor system gain knowledge on control buttons and signal lights used for attending malfunctions Attending red lights/malfunctions Get familiar with general tenting activities Gain knowledge on color coding system Gain knowledge on count, cop content, under winding length, cop defects, cone defects, etc. 	<p><u>1. common for every batch:</u> poster/video visuals for work method</p> <p><u>2. Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
3	<p>Filling the ring cops and doffing the cone package</p> <p>Theory Duration (hh:mm) 15:00</p> <p>Practical Duration (hh:mm) 30:00</p>	<ul style="list-style-type: none"> Gain knowledge about machine parts & its function Handling cop crate trolley Feeding cops into the magazine Feeding rejected cops keeping empty cones on top magazine gain knowledge on control buttons and signal lights used for attending doffing Doffing cone package Winding tail end on cone during doffing Checking cone weight 	<p><u>1. common for every batch:</u> Cop crate trolley, cone trolley, weighing balance, video visuals for work procedures</p> <p><u>2. Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	OJT Duration (hh:mm) 15:00 Corresponding NOS Code TSC/N 0303	<ul style="list-style-type: none"> Gain knowledge on waste control activities 	
4	Carryout cleaning and maintenance activities Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 30:00 Corresponding NOS Code TSC/N 0304	<ul style="list-style-type: none"> Gather knowledge on Importance of cleaning and maintenance Knowing the tender responsibilities in Autoconer in cleaning and maintenance Gain skill in using tools for cleaning and maintenance 	<u>1. common for every batch:</u> Machine working diagram/ video visuals, <u>Class room requirements:</u> 25 people seating capacity with a screen and projector
5	Maintain work area, tools and machines Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code TSC/N 9001	<ul style="list-style-type: none"> Become good knowledge in Housekeeping system Identify and understand the basic hand tools like cleaning hook, cleaning brush, bag, etc. Handling equipment and tools Perform maintenance activities for handling equipment 	<u>Class room requirements:</u> 25 people seating capacity with a screen and projector
6	Working in a team Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code TSC/N 9002	<ul style="list-style-type: none"> Understanding the team work and its importance Knowing the basic requirements for team working 	<u>Class room requirements:</u> 25 people seating capacity with a screen and projector
7	Maintain health, safety and security at work place	<ul style="list-style-type: none"> Knowing the general safety Rules Knowing the importance of personal protective equipment like apron, cap, earplugs, nose mask etc. and their 	<u>1. A sample of following items for each trainee:</u> apron, head cap, nose mask, ear plug, shoe,

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 30:00 Corresponding NOS Code TSC/N 9003	application under different working conditions. <ul style="list-style-type: none"> Gain knowledge on various health hazards relevant to workplace and basic first aid training. Identify and select right equipment such as fire extinguisher & based on type of fire. Become good practice on first aid, fire fighting etc. 	<u>2. common for every batch:</u> first aid materials, fire extinguisher, work method posters/pictures, <u>3. Class room requirements:</u> 25 people seating capacity with a screen and projector
8	Comply with industry and organisational requirement Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code TSC/N 9004	<ul style="list-style-type: none"> Know about organisational and industry standards Know the requirements for self-development Gain knowledge on Organisational & Industry standards 	<u>Class room requirements:</u> 25 people seating capacity with a screen and projector
9	Employability Skills (30 Hours) Theory Duration (hh:mm) 12:00 Practical Duration (hh:mm) 18:00	<ul style="list-style-type: none"> 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. 	Class room requirements: 25 people seating capacity with a screen and projector

		<ul style="list-style-type: none"> • 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. 	
	Total Duration: Theory Duration 102:00 Practical Duration 228:00 OJT Duration 60:00	Unique Equipment Required: Apron, head cap, nose mask, earplug, shoe, crate trolley, lapping cleaning hook, cleaning brush and hip bag.	

Grand Total Course Duration: 390 Hours, 0 Minutes

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

Trainer Prerequisites for Job role: “Autoconer Tenter” mapped to Qualification Pack: “Autoconer Tenter/TSC/Q0301, Version 3.0”

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “Autoconer Tenter/TSCQ0301, Version 3.0”.
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-organised and focused, eager to learn and keep oneself updated with the latest in the mentioned field.
3	Minimum Educational Qualifications	Able to read and write
4a	Domain Certification	Certified for Job Role: “Autoconer Tenter” mapped to QP: “Autoconer Tenter/TSCQ0301, Version 3.0”. Minimum accepted score 80%.
4b	Platform Certification	Required that the Trainer is certified for MEP/Q2601 Job Role: “Trainer” with atleast 80% score
5	Experience	Minimum 4 years experience as a Autoconer trainer and 1 year as a Autoconer tenter

Employability Trainer Prerequisites

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
Graduate/CITS	Any Discipline			2	Teaching Experience	Prospective ES trainer should: <ul style="list-style-type: none"> • have good communication skills • be well versed in English • have digital skills • have attention to detail • be adaptable • have willingness to learn
Current ITI Trainers	Employability Skills Training (3 days full-time course done between 2019-2022)					
Certified current EEE trainers (155 hours)	from Management SSC (MEPSC)					
Certified Trainer	Qualification Pack: Trainer (MEP/Q0102)					

Annexure: Assessment Criteria

Assessment Criteria for Autoconer Tenter	
Job Role	Autoconer Tenter
Qualification Pack	Autoconer Tenter (TSC / Q 0301)
Sector Skill Council	Textile Sector Skill Council

Sr. No.	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

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
1. TSC/N 0301 (Taking charge of shift and handing over shift to Autoconer Tenter)	PC1. come at least 10 - 15 minutes earlier to the work spot	100	3	1	1	1
	PC2. tie the waist bag/over coat/apron/cap as specified		4	1	2	1
	PC3. get instructions from supervisors and clarify doubts regarding repairs attended/changes made in previous shift		5	2	1	2
	PC4. bring the necessary operational tools to the department		3	1	1	1
	PC5. meet the previous shift operator and discuss with him/ her regarding the issues faced by them with respect to the quality or production or spare or safety or any other specific instruction etc.		4	1	2	1
	PC6. understand the count produced, colour coding, followed in the Autoconer for his allocated number of drums or machines		4	1	2	1
	PC7. ensure the technical details are mentioned in the display board in the Autoconer		4	1	2	1
	PC8. check and make sure that the machines, equipment, etc. are in clean and good condition		3	1	1	1
	PC9. check for the availability of the ring cops		4	1	2	1
	PC10. ensure all the winding units are running properly, winding units which are not running and problems if any should be clarified with the supervisor and operator		4	2	2	0
	PC11. ensure all the cone drums are running properly, if not should be enquired for the reason for idle cone drums and report to the superiors regarding the same		4	2	2	0
	PC12. ensure proper functioning of Autoconer machine parts		4	1	1	2
	PC13. check the cleanliness of the machines & other work areas		4	1	2	1
	PC14. Check whether any spare/raw material/ tool / yarn / any other material are thrown under the machines or in the other work areas.		3	1	1	1
	PC15. 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 that of the previous shift as well.		3	1	1	1
	PC16. ensure the wastes collection boxes are empty while taking charge of shift		4	1	2	1
	PC17. ensure the Over Head Travelling Cleaner (OHTC) is working properly		5	2	1	2
	PC18. hand over the shift to the incoming shift operator in a proper manner		5	2	1	2

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC19. ensure in providing the details regarding count produced, colour coding followed in the Autoconer for his allocated number of cone drums or machines		4	1	1	2
	PC20. provide all relevant information regarding the count produced, idle cone drums, damaged machine parts if any		5	1	1	3
	PC21. get clearance from the incoming counterpart before leaving the work spot		4	1	1	2
	PC22. 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		4	1	1	2
	PC23. ensure the shift has to be properly handed over to the incoming shift operator		4	1	1	2
	PC24. report to his/ her shift superior about the quality / production / safety issues/ any other issue faced in his/her shift and should leave the department only after getting concurrence for the same from his/ her superiors		3	1	1	1
	PC25. Weigh the hard waste generated and collected from the machine separately for each shift and deposit at the specified places		2	0	1	1
	PC26. collect the wastes from waste collection bags, weigh them and transport to storage area		2	1	1	0
	PC27. ensure the work spot is clean		2	1	1	0
	Total		100	31	36	33
		Weightage %		31	36	33
2. TSC/N 0302 (Operating the autoconer and carrying out general tenting activities at Autoconer)	PC1. identify the cop by looking at the count board affixed on the machine	200	4	1	2	1
	PC2. make sure that necessary changes and tests are carried out and follow the instructions of the superiors before running the machine		3	1	1	1
	PC3. operate the control switches for starting and stopping the machine		5	2	2	1
	PC4. ensure correct procedure is followed for operating the different control switches and machine		4	2	2	0
	PC5. following the different signal lamps used in machines		4	2	1	1
	PC6. ensure the display panel board is working properly and relevant details are displayed in the screen		5	2	3	0
	PC7. ensure proper functioning of Autoconer by verifying the details in the display panel		5	2	3	0

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC8. ensure the ring cops are properly filled in the magazine		5	2	2	1
	PC9. properly doff the full cone package in case of manual doffing		6	2	3	1
	PC10. ensure the full cone are properly doffed in auto doffer		5	2	2	1
	PC11. ensure the machine is running in the set speed by viewing the display panel		4	1	2	1
	PC12. bring the cops in the cop trolley from storage area		5	2	2	1
	PC13. fill the ring cops in magazine		4	1	2	1
	PC14. Sort the empties collected in the bin then and there, take the rejected cops, rectify the defect (by unwinding without making waste unnecessarily) and creel in the nearer magazines		5	2	2	1
	PC15. ensure proper passage of material of yarn in the winding units		5	2	2	1
	PC16. ensure the splicing unit is working properly		6	2	3	1
	PC17. restart the winding unit if the winding unit is stopped on specified number of successive failures of splicing		5	2	2	1
	PC18. ensure the waxing roll is available if the yarn is waxed		5	2	2	1
	PC19. put the waxes in the wax axle according to the material being processed as per the instruction of superiors		4	2	2	0
	PC20. check the waxing unit and fix new waxing rolls if the old one exhausts		4	2	2	0
	PC21. Ensure running waxes are clean and they are freely rotating.		5	2	3	0
	PC22. ensure the wax index is switched off, while processing un - waxed counts		5	2	3	0
	PC23. restart the winding unit on need basis		6	2	3	1
	PC24. ensure the eye unit is working properly		5	2	2	1
	PC25. remove the drum lapping manually with appropriate tool like knife, scissors, without damaging the drum		5	2	2	1
	PC26. switch on air valve while restating the machine after every stoppage		5	2	2	1
	PC27. see that the tension is as per requirement in drums		4	2	2	0
	PC28. Follow instructions/direction of supervisors, during count changes,		5	2	1	2
	PC29. Switch on the spindle only after rectifying the problem.		5	2	2	1

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC30. ensure all the winding unit are in running condition		4	1	2	1
	PC31. see the signal lamps in every winding unit and identify the reason for stoppage and restart		4	1	2	1
	PC32. Give priority for signal glowing drums, attend the drums immediately and start the drums without any delay		4	1	2	1
	PC33. carryout doffing activity if auto doffing unit is not available in the Autoconer		5	2	2	1
	PC34. Attend DHT conveyor belt jam immediately to avoid parallel yarn winding.		5	2	2	1
	PC35. report to the supervisor and maintenance in charge if the yarn alarm and quality alarms rings		4	1	2	1
	PC36. identify and report the different package defects to the superiors transport of empty cops to ring frame department		5	2	2	1
	PC37. report to superiors immediately if any defects such as yarn shade variation, strength variation, twist variation, stains etc. are found		5	1	1	3
	PC38. change as per the instructions direction of supervisors during count changes		4	1	1	2
	PC39. ensure proper material handling of full cops, empty cops, cop trolleys and full cones		4	1	2	1
	PC40. use appropriate tool for cleaning choked dust at yarn clearer unit		5	2	2	1
	PC41. remove the drum lapping manually with appropriate tool, without damaging the drum		4	1	2	1
	PC42. ensure using proper material handling of tools and equipment		3	1	2	0
	PC43. ensure proper material handling of waste		2	1	1	0
	PC44. Use of safety gadgets like caps, masks and shoes and verifying the safety stop motions.		4	1	2	1
	Total		200	73	89	38
		Weightage %		36	45	19
3. TSC/N 0303 (Filling the ring cops and doffing the cone package at Autoconer)	PC1. bring the cops in the cop trolley from storage area	150	4	1	2	1
	PC2. ensure correct count cop trolley is taken to winding unit for filling		4	1	2	1
	PC3. patrol around the winding machine successively and identify the cop exhaust in magazine		4	1	2	1
	PC4. creel the cops in the magazine		5	1	3	1

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC5. check frequently is there any signal stops present during cops filling		6	2	3	1
	PC6. ensure the cop is properly placed in the magazine		5	2	2	1
	PC7. ensure the yarn end of the cop is fed in the suction pipe at the centre of magazine		4	1	2	1
	PC8. ensure the winding unit should not stop due to cops exhaust		6	2	3	1
	PC9. deposit hard waste in their coat pocket/waist bag after filling		4	1	2	1
	PC10. ensure minimum time is taken for filling the ring cops		5	2	2	1
	PC11. ensure proper functioning of machine		3	1	1	1
	PC12. ensure safety while filling cops		5	2	2	1
	PC13. fetch and reserve empty cones in Autoconer machine		5	1	2	2
	PC14. Write down drum no., machine no. and winder number in empty cone if necessary		5	2	2	1
	PC15. ensure the cone is wound till the required length or weight of yarn is wound on cone package		4	1	2	1
	PC16. check the cone package is fully wound to the predetermined length or weight and start doffing		4	2	1	1
	PC17. either stop the drum for doffing or doff the cone package while the drum is running as per the instructions of the supervisor		5	2	2	1
	PC18. ensure proper procedure is adopted for doffing the cone package		5	1	3	1
	PC19. ensure proper material handling of cone package		6	2	3	1
	PC20. ensure the cones are as per specifications		5	2	2	1
	PC21. insert the empty cone after doffing		5	2	2	1
	PC22. Ensure strictly proper colour coded empty paper cone is mounted in holder.		5	2	2	1
	PC23. Put tail end as specified on the base of the empty cone before starting.		4	1	2	1
	PC24. during count change do the necessary changes and follow the instructions of the superiors		4	1	2	1
	PC25. release the cone holder and ensure the paper cone is in surface contact with the winding drum ensure proper traverse of yarn on winding drum		5	2	2	1
	PC26. ensure the proper passage of yarn in Autoconer		4	1	3	0

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC27. weigh the cone package as specified and ensure the required weight have been achieved		5	1	2	2
	PC28. place the cones in the cone trolley and store in the storage area as instructed		6	2	3	1
	PC29. patrol around the machine and check for signal stops		2	1	1	0
	PC30. ensure the link coner mechanism is properly working		3	1	1	1
	PC31. ensure there is no jam in the link coner transport passage		2	1	1	0
	PC32. ensure the cops are properly mounted in the cop holder		2	0	1	1
	PC33. ensure the cops are properly fed to winding unit		3	1	2	0
	PC34. clear traffic congestion at the full cop feeding path and rejected cops carrying path		6	3	2	1
	Total		150	49	69	32
		Weightage %		33	46	21
4. TSC/N 0304 (Carryout cleaning and maintenance activities at Autoconer)	PC1. ensure the different mechanisms in Autoconer is clean	200	4	1	1	2
	PC2. clean the different mechanisms in Autoconer at the scheduled interval as instructed by superiors		3	1	1	1
	PC3. removing faults from ring cops		4	1	2	1
	PC4. ensure the waxing rolls are clean		4	2	2	0
	PC5. ensure the eye area is clean		4	2	2	0
	PC6. remove the waste from the measuring head of eye if any		3	1	2	0
	PC7. To keep the wastes in waste bags, piecer bags, or in aprons.		4	1	2	1
	PC8. proper material handling of full cops, empty cops and full cones		3	1	1	1
	PC9. proper material handling of waste		3	1	1	1
	PC10. transporting empty cops to ring frame department		3	1	1	1
	PC11. ensure in keeping the wax washers clean		4	2	2	0
	PC12. clean the waste accumulation from different parts of the machine from time to time		4	1	2	1
	PC13. to use proper tools for cleaning		4	1	2	1
	PC14. package defects produced in the Autoconer to be identified and should be reported to superiors		3	1	1	1
	PC15. ensure the yarn produced is free from defects and damages		4	1	2	1

**National
Occupational
Standards
(NOS)**

Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
			Theory	Skills Practical	Viva
PC16. collect the hard wastes from waste collection box in Autoconer machine at regular intervals as instructed by superiors	3		1	1	1
PC17. ensure the wastes collected are deposited in the respective waste box	4		1	2	1
PC18. The rejected cops in the empties trolley should be segregated, cleaned and returned.	4		1	2	1
PC19. all half cops and damaged cops should be cleaned in the particular shift itself	4		1	2	1
PC20. to ensure safety while carrying out cleaning activities	3		1	1	1
PC21. ensure cleanliness at work place	3		1	1	1
PC22. support the mechanic while carryout cleaning maintenance activities if necessary	3		1	1	1
PC23. clean the wastes in the alley around the Autoconer area	4		1	2	1
PC24. ensure the full cone transportation belt and empty tubes conveyor belt area is clean	4		1	2	1
PC25. ensure OHTC is running continuously without stopping whenever machine stopped for any maintenance / cleaning work	3		1	1	1
PC26. ensure proper functioning of machine	4		1	2	1
PC27. check and verify the quality of different machine parts	3		1	1	1
PC28. able to remove the worn out parts and replace with new parts in Autoconer machine with the knowledge of fitter/shift in-charge	4		1	2	1
PC29. report to superior if any abnormal functioning mechanisms in Autoconer	4		1	2	1
PC30. ensure all the winding drum is in good running condition	3		1	1	1
PC31. remove the lapping if any	4		1	2	1
PC32. Ensure the working of all stop motions, tension washer and EYC.	3		1	2	0
PC33. check whether splicing unit is working proper condition	5		2	2	1
PC34. check the proper functioning of machine parts	5		1	3	1
PC35. ensure that the conveyor belt is clean and proper cop transport occurs	5		1	2	2
PC36. ensure that the conveyor belt is clean and proper cone transport occurs	4		1	2	1
PC37. attend the jams in winding sections and report to supervisor and fitters	4		1	2	1

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC38. see that all the red lights are attended immediately and also feed track jamming, cops jamming should be attended properly		5	2	2	1
	PC39. in case yarn getting wound up on the drum, stop the machine and remove the same gently without damaging the drum		5	1	2	2
	PC40. report to the maintenance in charge and supervisor if any malfunctioning in the machine		4	1	2	1
	PC41. Check the OHTC working condition.		4	1	2	1
	PC42. report to the superiors if any eye is malfunctioning		4	1	2	1
	PC43. ensure safety while carrying out maintenance activities		3	1	1	1
	PC44. support the fitter for carrying out maintenance activities		4	1	2	1
	PC45. inform the supervisor and maintenance in charge in case of a jam		4	1	2	1
	PC46. in case of any break-downs, report to the superiors and support him for carrying out maintenance activities		3	1	1	1
	PC47. support the fitter during minor breakdown		4	1	2	1
	PC48. ensure the cone produced is free from outside damages		4	1	2	1
	PC49. inform superiors immediately, if any break down or fault in the machine is noticed		4	1	2	1
	PC50. ensure the proper functioning of signal lamps		4	1	2	1
	PC51. ensure that machine is working properly, if any deviations inform superiors immediately		3	1	1	1
	PC52. collect the hard wastes and weigh them at shift end and place them in specified area		4	1	2	1
	PC53. Provide all relevant information's of the current working process to the next shift operator before relieving.		4	1	2	1
	Total		200	58	91	51
		Weightage %		29	45	26
5. TSC/N9001 (Maintain work area, tools and machines)	PC1. handle materials, machinery, equipment and tools with care and use them in the correct way	50	4	1	2	1
	PC2. use correct lifting and handling procedures		4	1	2	1
	PC3. use materials to minimize waste		3	1	1	1
	PC4. maintain a clean and hazard free working area		3	1	1	1
	PC5. maintain tools and equipment		4	2	1	1

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC6. carry out running maintenance within agreed schedules		4	1	2	1
	PC7. carry out maintenance and/or cleaning within one's responsibility		4	1	2	1
	PC8. report unsafe equipment and other dangerous occurrences		4	1	2	1
	PC9. ensure that the correct machine guards are in place		3	1	1	1
	PC10. work in a comfortable position with the correct posture		3	1	1	1
	PC11. use cleaning equipment and methods appropriate for the work to be carried out		3	1	1	1
	PC12. dispose of waste safely in the designated location		4	1	2	1
	PC13. store cleaning equipment safely after use		3	1	1	1
	PC14. carry out cleaning according to schedules and limits of responsibility		4	1	2	1
	Total		50	15	21	14
		Weightage %		30	42	28
6. TSC/N9002 (Working in a team)	PC1. be accountable to the own role in whole process	50	4	2	1	1
	PC2. perform all roles with full responsibility		4	2	1	1
	PC3. be effective and efficient at workplace		4	1	2	1
	PC4. properly communicate about company policies		4	1	1	2
	PC5. report all problems faced during the process		4	1	1	2
	PC6. talk politely with other team members and colleagues		4	1	1	2
	PC7. submit daily report of own performance		5	2	2	1
	PC8. adjust in different work situations		4	1	2	1
	PC9. give due importance to others' point of view		4	1	2	1
	PC10. avoid conflicting situations		4	1	2	1
	PC11. develop new ideas for work procedures		5	2	2	1
	PC12. improve upon the existing techniques to increase process efficiency		4	1	2	1
	Total		50	16	19	15
		Weightage %		32	38	30
7.TSC/N9003 (Maintain	PC1. comply with health and safety related instructions applicable to the workplace	100	5	2	2	1

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
health, safety and security at work place)	PC2. use and maintain personal protective equipment such as “ ear plug” “ nose mask “ “ head cap” etc., as per protocol	5	2	2		1
	PC3. carry out own activities in line with approved guidelines and procedures	4	2	1		1
	PC4. maintain a healthy lifestyle and guard against dependency on intoxicants	4	2	1		1
	PC5. follow environment management system related procedures	4	2	1		1
	PC6. identify and correct (if possible) malfunctions in machinery and equipment	5	2	2		1
	PC7. report any service malfunctions that cannot be rectified	4	2	1		1
	PC8. store materials and equipment in line with organisational requirements	4	1	2		1
	PC9. safely handle and remove waste	4	1	2		1
	PC10. minimize health and safety risks to self and others due to own actions	5	2	2		1
	PC11. seek clarifications, from supervisors or other authorized personnel in case of perceived risks	4	2	0		2
	PC12. monitor the workplace and work processes for potential risks and threat	5	2	2		1
	PC13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned	5	2	2		1
	PC14. report hazards and potential risks/ threats to supervisors or other authorized personnel	4	1	2		1
	PC15. participate in mock drills/ evacuation procedures organized at the workplace	4	2	2		0
	PC16. undertake first aid, fire-fighting and emergency response training, if asked to do so	5	2	2		1
	PC17. take action based on instructions in the event of fire, emergencies or accidents	5	2	2		1
	PC18. follow organisation procedures for shutdown and evacuation when required	4	2	1		1
	PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry	4	2	1		1
	PC20. recognise other possible security issues existing in the workplace	4	2	1		1

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC21. recognise different measures to curb the hazards		4	2	1	1
	PC22. communicate the safety plan to everyone		4	2	1	1
	PC23. attach disciplinary rules with the implementation		4	2	1	1
	Total		100	43	34	23
		Weightage %		43	34	23
8.TSC/N9004 (Comply with industry and organizational requirement)	PC1. perform own duties effectively	50	4	1	2	1
	PC2. take responsibility for own actions		4	1	2	1
	PC3. be accountable towards the job role and assigned duties		4	2	1	1
	PC4. take initiative and innovate the existing methods		3	1	1	1
	PC5. focus on self-learning and improvement		4	1	2	1
	PC6. co-ordinate with all the team members and colleagues		4	1	2	1
	PC7. communicate politely		4	1	1	2
	PC8. avoid conflicts and miscommunication		4	1	2	1
	PC9. know the organisational standards		4	2	1	1
	PC10. implement them in your performance		4	1	2	1
	PC11. motivate others to follow them		3	1	1	1
	PC12. know the industry standards		4	3	1	0
	PC13. align them with organisation standards		4	2	1	1
	Total		50	18	19	13
		Weightage %		36	38	26
9. DGT/VSQ/N0101 – Employability Skills	Introduction to Employability Skills			1	1	-
	1. understand the significance of 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 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 English phrases or sentences					
	Communication Skills			1	1	-
	5. follow good manners while communicating with others					
	6. work with others in a team					
	Diversity & Inclusion			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 & 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		950	323	408	219



Textile Sector Skill Council

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