

It's Objective, learning outcomes, Modules, assessments and material list

**NAME OF THE COURSE: Autoconer & RFT**

Submitted to :- <b>Bihar Skill Development Mission, Labour Resources Department, GoB</b>	Submitted By :- <b>Sandeep Kumar</b>
	Session :22-27

Course name:

- Course Id- blank
- Candidate Eligibility : 5<sup>th</sup>
- Course Duration: 760 ( In hours)

**CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE**

**Name and address of submitting body:**

**Welspun India Limited**

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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

<b>Program Name</b>	<b>Autoconer Tenter</b>		
<b>Qualification Pack Name &amp; Reference ID.</b>	Autoconer Tenter TSC/Q0301, version 1.0		
<b>Version No.</b>	1.0	<b>Version Update Date</b>	18-01-2016
<b>Pre-requisites to Training</b>	Preferably equivalent to 5th (Normal literacy of reading, writing and understanding)		
<b>Training Outcomes</b>	<b>After completing this programme, participants will be able to:</b> <ul style="list-style-type: none"><li>• Become well verse with taking charge of shift and handing over shift</li><li>• Learn and operate Autoconer machine and perform tenting activities</li><li>• Perform cops filling and cone doffing operations</li><li>• Perform cleaning and maintenance activities</li><li>• Maintain work area, tools and machines</li><li>• Gain behavioural skill for team working</li><li>• Maintain health, safety and security at work place</li><li>• Comply with industry and organisational requirement</li></ul>		

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><b>Taking charge of shift and handing over shift to the Autoconer tenter</b></p> <p><b>Theory Duration</b> (hh:mm) 10:00</p> <p><b>Practical Duration</b> (hh:mm) 33:00</p> <p><b>Corresponding NOS Code</b> TSC/N 0301</p>	<ul style="list-style-type: none"> <li>• Learning general discipline</li> <li>• Become well verse with basic skills of communication</li> <li>• Understand the role of Autoconer Tenter</li> <li>• Perform tasks while taking charge of shift and handing over shift</li> <li>• Become familiar in faults identification</li> </ul>	<p><u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
2	<p><b>Operating the Autoconer and carrying out general tenting activities</b></p> <p><b>Theory Duration</b> (hh:mm) 24:00</p> <p><b>Practical Duration</b> (hh:mm) 53:30</p> <p><b>Corresponding NOS Code</b> TSC/N 0302</p>	<ul style="list-style-type: none"> <li>• Gain knowledge about machine parts &amp; its function</li> <li>• Gain knowledge about control switches and display board operation</li> <li>• perform starting and stopping Autoconer machine</li> <li>• perform and operating cone and empties conveyor system</li> <li>• gain knowledge on control buttons and signal lights used for attending malfunctions</li> <li>• Attending red lights/malfunctions</li> <li>• Get familiar with general tenting activities</li> <li>• Gain knowledge on color coding system</li> <li>• Gain knowledge on count, cop content, under winding length, cop defects, cone defects, etc.</li> </ul>	<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><b>Filling the ring cops and doffing the cone package</b></p> <p><b>Theory Duration</b> (hh:mm) 16:00</p> <p><b>Practical Duration</b> (hh:mm) 44:00</p>	<ul style="list-style-type: none"> <li>• Gain knowledge about machine parts &amp; its function</li> <li>• Handling cop crate trolley</li> <li>• Feeding cops into the magazine</li> <li>• Feeding rejected cops</li> <li>• keeping empty cones on top magazine</li> <li>• gain knowledge on control buttons and signal lights used for attending doffing</li> <li>• Doffing cone package</li> <li>• Winding tail end on cone during doffing</li> <li>• Checking cone weight</li> </ul>	<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
	<b>Corresponding NOS Code</b> TSC/N 0303	<ul style="list-style-type: none"> <li>Gain knowledge on waste control activities</li> </ul>	
4	<b>Carryout cleaning and maintenance activities</b>  <b>Theory Duration</b> (hh:mm) 19:00  <b>Practical Duration</b> (hh:mm) 57:00  <b>Corresponding NOS Code</b> TSC/N 0304	<ul style="list-style-type: none"> <li>Gather knowledge on Importance of cleaning and maintenance</li> <li>Knowing the tender responsibilities in Autoconer in cleaning and maintenance</li> <li>Gain skill in using tools for cleaning and maintenance</li> </ul>	<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	<b>Maintain work area, tools and machines</b>  <b>Theory Duration</b> (hh:mm) 05:00  <b>Practical Duration</b> (hh:mm) 22:00  <b>Corresponding NOS Code</b> TSC/N 9001	<ul style="list-style-type: none"> <li>Become good knowledge in Housekeeping system</li> <li>Identify and understand the basic hand tools like cleaning hook, cleaning brush, bag, etc.</li> <li>Handling equipment and tools</li> <li>Perform maintenance activities for handling equipment</li> </ul>	<u>Class room requirements:</u> 25 people seating capacity with a screen and projector
6	<b>Working in a team</b>  <b>Theory Duration</b> (hh:mm) 05:00  <b>Practical Duration</b> (hh:mm) 21:00  <b>Corresponding NOS Code</b> TSC/N 9002	<ul style="list-style-type: none"> <li>Understanding the team work and its importance</li> <li>Knowing the basic requirements for team working</li> </ul>	<u>Class room requirements:</u> 25 people seating capacity with a screen and projector
7	<b>Maintain health, safety and security at work place</b>	<ul style="list-style-type: none"> <li>Knowing the general safety Rules</li> <li>Knowing the importance of personal protective equipment like apron, cap, earplugs, nose mask etc. and their</li> </ul>	<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
	<b>Theory Duration</b> (hh:mm) 15:00  <b>Practical Duration</b> (hh:mm) 29:00  <b>Corresponding NOS Code</b> TSC/N 9003	application under different working conditions. <ul style="list-style-type: none"> <li>Gain knowledge on various health hazards relevant to workplace and basic first aid training.</li> <li>Identify and select right equipment such as fire extinguisher &amp; based on type of fire.</li> <li>Become good practice on first aid, fire fighting etc.</li> </ul>	<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	<b>Comply with industry and organisational requirement</b>  <b>Theory Duration</b> (hh:mm) 05:00  <b>Practical Duration</b> (hh:mm) 21:30  <b>Corresponding NOS Code</b> TSC/N 9004	<ul style="list-style-type: none"> <li>Know about organisational and industry standards</li> <li>Know the requirements for self-development</li> <li>Gain knowledge on Organisational &amp; Industry standards</li> </ul>	<u>Class room requirements:</u> 25 people seating capacity with a screen and projector
	<b>Total Duration:</b>  <b>Theory Duration</b> <b>99:00</b>  <b>Practical Duration</b> <b>281:00</b>	<b>Unique Equipment Required:</b> Apron, head cap, nose mask, earplug, shoe, crate trolley, lapping cleaning hook, cleaning brush and hip bag.	

**Grand Total Course Duration: 380 Hours, 0 Minutes**

**Trainer Prerequisites for Job role: “Autoconer Tenter” mapped to Qualification Pack: “Autoconer Tenter/TQ 0301, Version 1.0”**

Sr. No.	Area	Details
1	<b>Description</b>	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “Autoconer Tenter/TQ0301, Version 1.0”.
2	<b>Personal Attributes</b>	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	<b>Minimum Educational Qualifications</b>	Preferably equivalent to 5th (Normal literacy of reading, writing and understanding)
4a	<b>Domain Certification</b>	Certified for Job Role: “Autoconer Tenter” mapped to QP: “Autoconer Tenter/TQ0301, Version 1.0”. Minimum accepted score 80%.
4b	<b>Platform Certification</b>	Required that the Trainer is certified for SSC/Q 1402 Job Role: “Trainer” with atleast 80% score
5	<b>Experience</b>	Minimum 5 year’s experience as Autoconer Tenter

## Annexure: Assessment Criteria

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

<b>Sr. No.</b>	<b>Guidelines for Assessment</b>
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 70 %.
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
<b>1. TSC/N 0301 (Taking charge of shift and handing over shift to Autoconer Tenter )</b>	PC1. come at least 10 - 15 minutes earlier to the work spot	<b>100</b>	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
	<b>Total</b>		<b>100</b>	<b>31</b>	<b>36</b>	<b>33</b>
		<b>Weightage %</b>		<b>31</b>	<b>36</b>	<b>33</b>
<b>2. TSC/N 0302 (Operating the autoconer and carrying out general tenting activities at Autoconer)</b>	PC1. identify the cop by looking at the count board affixed on the machine	<b>200</b>	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
	<b>Total</b>		<b>200</b>	<b>73</b>	<b>89</b>	<b>38</b>
		<b>Weightage %</b>		<b>36</b>	<b>45</b>	<b>19</b>
<b>3. TSC/N 0303 (Filling the ring cops and doffing the cone package at Autoconer)</b>	PC1. bring the cops in the cop trolley from storage area	<b>150</b>	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
	<b>Total</b>		<b>150</b>	<b>49</b>	<b>69</b>	<b>32</b>
		<b>Weightage %</b>		<b>33</b>	<b>46</b>	<b>21</b>
<b>4. TSC/N 0304 (Carryout cleaning and maintenance activities at Autoconer)</b>	PC1. ensure the different mechanisms in Autoconer is clean	<b>200</b>	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
	<b>Total</b>		<b>200</b>	<b>58</b>	<b>91</b>	<b>51</b>
		<b>Weightage %</b>		<b>29</b>	<b>45</b>	<b>26</b>
<b>5. TSC/N9001 (Maintain work area, tools and machines)</b>	PC1. handle materials, machinery, equipment and tools with care and use them in the correct way	<b>50</b>	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
	<b>Total</b>		<b>50</b>	<b>15</b>	<b>21</b>	<b>14</b>
			<b>Weightage %</b>	<b>30</b>	<b>42</b>	<b>28</b>
<b>6. TSC/N9002 (Working in a team)</b>	PC1. be accountable to the own role in whole process	<b>50</b>	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
	<b>Total</b>		<b>50</b>	<b>16</b>	<b>19</b>	<b>15</b>
			<b>Weightage %</b>	<b>32</b>	<b>38</b>	<b>30</b>
<b>7.TSC/N9003 (Maintain)</b>	PC1. comply with health and safety related instructions applicable to the workplace	<b>100</b>	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
	<b>Total</b>		<b>100</b>	<b>43</b>	<b>34</b>	<b>23</b>
		<b>Weightage %</b>		<b>43</b>	<b>34</b>	<b>23</b>
<b>8.TSC/N9004 (Comply with industry and organizational requirement)</b>	PC1. perform own duties effectively	<b>50</b>	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
	<b>Total</b>		<b>50</b>	<b>18</b>	<b>19</b>	<b>13</b>
			<b>Weightage %</b>		<b>36</b>	<b>38</b>

# Ring Frame Tenter

## CURRICULUM / SYLLABUS

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

<b>Program Name</b>	<b>Ring Frame Tenter</b>		
<b>Qualification Pack Name &amp; Reference ID.</b>	Ring Frame Tenter TSC/Q0201, version 1.0		
<b>Version No.</b>	1.0	<b>Version Update Date</b>	18-01-2016
<b>Pre-requisites to Training</b>	Preferably equivalent to 5th (Normal literacy of reading, writing and understanding)		
<b>Training Outcomes</b>	<p><b>After completing this programme, participants will be able to:</b></p> <ul style="list-style-type: none"> <li>• Become well verse with taking charge of shift and handing over shift</li> <li>• Learn and perform creeling the roving bobbin</li> <li>• Learn and perform piecing the broken yarn</li> <li>• Perform cleaning activities</li> <li>• Maintain work area, tools and machines</li> <li>• Gain behavioural skill for team working</li> <li>• Maintain health, safety and security at work place</li> <li>• Comply with industry and organizational requirement</li> </ul>		

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

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p><b>Taking charge of shift and handing over shift to tenter</b></p> <p><b>Theory Duration</b> (hh:mm) 13:30</p> <p><b>Practical Duration</b> (hh:mm) 36:30</p> <p><b>Corresponding NOS Code</b> TSC/N 0201</p>	<ul style="list-style-type: none"> <li>• Learning general discipline</li> <li>• Become well verse with basic skills of communication</li> <li>• Understand the role of Ring frame tenter</li> <li>• Perform tasks while taking charge of shift and handing over shift</li> <li>• Become familiar in faults identification</li> </ul>	<p><u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
2	<p><b>Creeling the roving bobbin</b></p> <p><b>Theory Duration</b> (hh:mm) 14:00</p> <p><b>Practical Duration</b> (hh:mm) 36:00</p> <p><b>Corresponding NOS Code</b> TSC/N 0202</p>	<ul style="list-style-type: none"> <li>• Gain knowledge on machine parts &amp; its function related to the respective module</li> <li>• handling full and empty bobbins</li> <li>• changing roving bobbin</li> <li>• handling bobbin trolley</li> <li>• Gain knowledge on colour coding system</li> <li>• Identification of roving waste</li> <li>• Controlling roving waste</li> <li>• Perform Quality roving piecing</li> </ul>	<p>1. <u>A sample of following items for each trainee:</u> bobbin, empty bobbin 2. <u>common for every batch:</u> poster/video visuals for work method and machine parts 3. <u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
3	<p><b>Piecing the broken yarn</b></p> <p><b>Theory Duration</b> (hh:mm) 12:30</p> <p><b>Practical Duration</b> (hh:mm) 37:30</p> <p><b>Corresponding NOS Code</b> TSC/N 0203</p>	<ul style="list-style-type: none"> <li>• Gain knowledge on machine parts &amp; its function related to the respective module</li> <li>• Gain knowledge on type of breaks</li> <li>• Handling running machine parts, cop, etc.</li> <li>• piecing the broken yarn</li> <li>• changing traveller</li> <li>• patrolling machine</li> <li>• Identification of pneumafil waste, bonda waste, yarn waste, etc.</li> <li>• Knowing Waste control activities</li> <li>• Perform Quality of piecing</li> </ul>	<p>1. <u>common for every batch:</u> cop, poster/video visuals for work method and machine parts, traveller, lapping cleaning hook, samples of wastes (pneumafil, bonda, yarn, rove) 2. <u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
4	<p><b>Carryout cleaning activities</b></p> <p><b>Theory Duration</b> (hh:mm) 22:30</p>	<ul style="list-style-type: none"> <li>• Knowing Importance of cleaning activities</li> <li>• knowing Responsible items for sider in R/F in cleaning and maintenance</li> <li>• knowing Procedure and tools used for cleaning and maintenance</li> </ul>	<p>1. <u>A sample of following items for each trainee:</u> Cleaning tools such as cleaning gun/stick,</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	<p><b>Practical Duration</b> (hh:mm) 67:30</p> <p><b>Corresponding NOS Code</b> TSC/N 0204</p>		
5	<p><b>Maintain work area, tools and machines</b></p> <p><b>Theory Duration</b> (hh:mm) 06:00</p> <p><b>Practical Duration</b> (hh:mm) 24:00</p> <p><b>Corresponding NOS Code</b> TSC/N 9001</p>	<ul style="list-style-type: none"> <li>Gain knowledge on Housekeeping system</li> <li>Identification of basic hand tools like cleaning hook, cleaning stick, bag, etc.</li> <li>handling equipment</li> <li>perform Maintenance activities for handling equipment</li> </ul>	<p><u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
6	<p><b>Working in a team</b></p> <p><b>Theory Duration</b> (hh:mm) 06:30</p> <p><b>Practical Duration</b> (hh:mm) 23:30</p> <p><b>Corresponding NOS Code</b> TSC/N 9002</p>	<ul style="list-style-type: none"> <li>Understanding the team work and its importance</li> <li>Knowing the basic requirements for team working</li> </ul>	<p><u>2.Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
7	<p><b>Maintain health, safety and security at work Place</b></p> <p><b>Theory Duration</b> (hh:mm) 17:30</p> <p><b>Practical Duration</b> (hh:mm) 32:30</p> <p><b>Corresponding NOS Code</b> TSC/N 9003</p>	<ul style="list-style-type: none"> <li>Knowing the general safety Rules</li> <li>Knowing the importance of personal protective equipment like apron, cap, earplugs, nose mask etc. and their application under different working conditions.</li> <li>Gain knowledge on various health hazards relevant to workplace and basic first aid training.</li> <li>Identify and select right equipment such as fire extinguisher &amp; based on type of fire.</li> <li>Become good practice on first aid, firefighting etc.</li> </ul>	<p><u>1. A sample of following items for each trainee:</u> apron, head cap, nose mask, ear plug, shoe, <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</p>
8	<p><b>Comply with industry and organisational requirement</b></p>	<ul style="list-style-type: none"> <li>Know about organizational and industry standards</li> </ul>	<p><u>2.Class room requirements:</u> a batch of 25 people seating</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	<p><b>Theory Duration</b> (hh:mm) 07:30</p> <p><b>Practical Duration</b> (hh:mm) 22:30</p> <p><b>Corresponding NOS Code</b> TSC/N 9004</p>	<ul style="list-style-type: none"> <li>• Know the requirements for self-development</li> <li>• Gain knowledge on Organizational &amp; Industry standards</li> </ul>	<p>capacity with a screen and projector</p>
	<p><b>Total Duration:</b></p> <p><b>Theory Duration</b> <b>100:00</b></p> <p><b>Practical Duration</b> <b>280:00</b></p>	<p><b>Unique Equipment Required:</b></p> <ul style="list-style-type: none"> <li>• Apron, head cap, nose mask, earplug, shoe, lapping cleaning hook, cleaning stick and hip bag.</li> </ul>	

**Grand Total Course Duration: 380 Hours, 0 Minutes**

**Trainer Prerequisites for Job role: “Ring Frame Tenter” mapped to Qualification Pack: “Ring Frame Tenter /TSC Q 0201, Version 1.0”**

Sr. No.	Area	Details
1	<b>Description</b>	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “ <u>Ring Frame Tenter/TSC Q0201, Version 1.0</u> ”.
2	<b>Personal Attributes</b>	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	<b>Minimum Educational Qualifications</b>	Preferably equivalent to 5th (Normal literacy of reading, writing and understanding)
4a	<b>Domain Certification</b>	Certified for Job Role: “ <u>Ring Frame Tenter</u> ” mapped to QP: “ <u>Ring Frame Tenter/TSC Q0201, Version 1.0</u> ”. Minimum accepted score 80%.
4b	<b>Platform Certification</b>	Required that the Trainer is certified for SSC/Q 1402 Job Role: “Trainer” with atleast 80% score
5	<b>Experience</b>	Minimum 5 years experience as Ring Frame Tenter

## Annexure: Assessment Criteria

<b>Assessment Criteria for Ring Frame Tenter</b>	
<b>Job Role</b>	<b>Ring Frame Tenter</b>
<b>Qualification Pack</b>	<b>Ring Frame Tenter (TSC/Q 0201)</b>
<b>Sector Skill Council</b>	<b>Textile Sector Skill Council</b>

<b>Sr. No.</b>	<b>Guidelines for Assessment</b>
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 70%.
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	Out Of	Marks Allocation		
				Theory	Skills	Viva
					Practical	
<b>1. TSC/N0201 (Taking charge of shift and handing over shift to Ring Frame Tenter)</b>	PC1. Come at least 10 - 15 minutes earlier to the work spot	<b>100</b>	3	1	1	1
	PC2. Bring the necessary operational tools to the department		3	1	1	1
	PC3. 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	1	2
	PC4. Understand the count produced, colour coding, followed in the ring frames for his allocated number of spindles or machines		3	1	1	1
	PC5. Ensure the technical details are mentioned in the display board in the ring frame machine		3	1	2	0
	PC6. Check for the availability of the spare roving bobbins		2	1	1	0
	PC7. Check the availability of bobbin trolley with technical details mentioned regarding the count being produced		2	1	1	0
	PC8. Check the condition of running travellers		2	1	1	0
	PC9. Check the roving passage and yarn formation is proper		3	1	1	1
	PC10. Check for the run outs , availability of the roving bobbins		3	1	1	1
	PC11. Ensure all the spindles are running properly, if not should be enquired for the reason for idle spindle and report to the superiors regarding the same		4	1	2	1
	PC12. Check the condition of different running cops		4	1	2	1
	PC13. Ensure proper functioning of ring frame machine parts and machine		4	1	2	1
	PC14. Ensure all allocated spindles are running with uniform length of yarn is wound on cop, variations if any should be discussed with operator and reported to superiors		3	1	1	1
	PC15. Check the condition of running spindles, damages if any should be reported		2	1	1	0

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC16. Check the cleanliness of the machines & other work areas		2	1	1	0
	PC17. 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
	PC18. 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
	PC19. Ensure no roller lapping in ring frame		3	1	1	1
	PC20. Remove the roller lapping manually if any without damaging the cots		3	1	1	1
	PC21. In case of burnt out travellers, ensure that only the correct size of traveller is used for replacement		3	1	1	1
	PC22. Ensure the wastes collection boxes are empty while taking charge of shift		3	1	1	1
	PC23. Ensure the ohtc is working properly		3	1	2	0
	PC24. Ensure the work spot is clean		3	1	1	1
	PC25. Hand over the shift to the incoming ring frame tenter in a proper manner		3	1	1	1
	PC26. Ensure in providing the details regarding count produced, colour coding followed in the ring frames for his allocated number of spindles or machines		3	1	1	1
	PC27. Provide all relevant information regarding the count produced, idle spindles, damaged machine parts if any		3	1	0	2
	PC28. Get clearance from the incoming counterpart before leaving the work spot		3	1	0	2
	PC29. 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

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC30. Ensure the shift has to be properly handed over to the incoming shift operator		3	1	1	1
	PC31. 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		4	1	1	2
	PC32. Collect the wastes from waste collection bags, weigh them and transport to storage area		3	1	1	1
	PC33. Ensure the work spot is clean		3	1	1	1
	<b>Total</b>		<b>100</b>	<b>33</b>	<b>36</b>	<b>31</b>
	<b>Weightage %</b>			<b>33</b>	<b>36</b>	<b>31</b>
<b>2. TSC/N0202 (Creeling the roving bobbin at Ring Frame )</b>	PC1. Bring the roving bobbin from storage using bobbin trolley	<b>100</b>	5	2	2	1
	PC2. Ensure correct colour coded bobbins are taken to ring frame section		5	2	2	1
	PC3. Identify roving bobbin exhausts and removing the empty bobbin		6	2	3	1
	PC4. Replace exhausted roving bobbin with suitable bobbins on the creel from the reserve holder / trolley		6	2	3	1
	PC5. Ensure colour coding of feed in the creel is correct		4	2	1	1
	PC6. Creel the full roving bobbin		6	2	3	1
	PC7. Ensure proper passage of roving		5	2	2	1
	PC8. Ensure minimum time is taken for attending the roving breakage		5	2	2	1
	PC9. Ensure that the roving passes through the creeling section without affecting the quality of roving		4	1	2	1
	PC10. Draw the roving end with minimum waste and then piece up the yarn		6	2	3	1
	PC11. Ensure proper length of roving is available for piecing		5	1	3	1

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC12. Piece the broken roving together in the event of roving breakage at creel section		6	2	3	1
	PC13. Ensure standard piecing procedure is adopted and quality and size of piecing is within the standards		5	2	2	1
	PC14. Keep the roving waste in the waste collection pocket provided to each tenter and then put in the waste in waste collection box		4	1	2	1
	PC15. Ensure minimum time is taken for piecing the roving		4	1	2	1
	PC16. Properly handle the roving and roving bobbin		5	2	3	0
	PC17. Ensure roving surface doesn't gets damaged		5	2	3	0
	PC18. Verify the quality of piecing done in the roving		5	2	3	0
	PC19. Ensure roving tension in the creeling section is appropriate		5	2	2	1
	PC20. Ensure proper functioning of the machine		4	1	2	1
	<b>Total</b>		<b>100</b>	<b>35</b>	<b>48</b>	<b>17</b>
	<b>Weightage %</b>			<b>35</b>	<b>48</b>	<b>17</b>
<b>3. TSC/N0203 (Piecing the broken yarn at Ring Frame)</b>	PC1. Patrol around the ring frame machine & identify the yarn breakage in ring frame	<b>100</b>	5	1	3	1
	PC2. Ensure minimum time is taken for attending the yarn breakages		4	1	2	1
	PC3. Check creel break, traveller fly/ loading, undraft & roller lapping		4	1	2	1
	PC4. Apply the knee break to stop the spindle		5	1	3	1
	PC5. Check the cop quality		4	1	2	1
	PC6. Ensure proper seating of empties in the spindle after yarn piecing		4	1	2	1
	PC7. Take yarn from cop to feed ABC Ring and insert traveller, lappet hook cut the yarn (10mm ) and to start piecing		6	2	2	2
	PC8. Piece the yarn between false twister and drafting zone by		4	1	2	1

National Occupational Standards (NOS)	Performance Criteria (PC)	Total	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	following standard piecing techniques					
	PC9. Ensure proper seating of empties in the spindle after yarn piecing		6	2	4	0
	PC10. Ensure proper traveller running		6	2	4	0
	PC11. Ensure minimum time is taken for piecing the yarn		5	1	3	1
	PC12. Ensure proper material handling of ring cops		5	1	3	1
	PC13. Ensure the yarn should be pieced with minimum overlapping		4	2	1	1
	PC14. Put the roving ends and roller bonda waste in the bags or pockets of coat / apron while attending the end breakages.		5	2	2	1
	PC15. Ensure proper material handling of yarn and cops		5	2	2	1
	PC16. Ensure the quality of piecing is as per standard		5	2	2	1
	PC17. Ensure the tension of the pieced yarn is proper		5	2	2	1
	PC18. Ensure the cop is perfectly fitted in the spindle		4	2	1	1
	PC19. Verify proper material passage from drafting zone till the yarn wound in cop		5	2	2	1
	PC20. Remove the pneumafil waste and yarn waste and deposit in the respective waste collection bags		4	1	2	1
	PC21. Ensure proper functioning of the machine		5	1	2	2
	<b>Total</b>		<b>100</b>	<b>31</b>	<b>48</b>	<b>21</b>
	<b>Weightage %</b>			<b>31</b>	<b>48</b>	<b>21</b>
	PC1. Ensure proper cleaning of drafting zone		8	2	4	2
	PC2. Ensure proper cleaning of creel, guide rods, roving guide, spacer, aprons, top roller lapping, bottom roller lapping, arbour, roving guide, top clearer and bottom clearer.	<b>200</b>	10	2	6	2
	PC3. Ensure proper rotation of clearer rollers		8	2	4	2

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
<b>4. TSC/N0204 (Carryout cleaning activities at Ring Frame)</b>	PC4. Deposit the yarn waste in the waste collection pocket provided to each tenter and finally depositing in the waste collection box		8	2	6	0
	PC5. Check the pneumafil waste collection once in an hour, or as per predefined scheduled and remove the wastes if required		8	2	5	1
	PC6. Remove the roller lapping manually or with tools provided, without damaging the cots		8	3	5	0
	PC7. Collect the wastes in the waste collection chamber and depositing in the waste collection box		6	3	2	1
	PC8. Ensure the wastes collected from different parts of machine are deposited in the respective dustbins		6	3	2	1
	PC9. Inform for removal of the worn out parts and ensure replacement with new parts in ring frame machine		6	3	2	1
	PC10. Identify end brake for traveller fly.		6	1	3	2
	PC11. Take traveller in traveller tray		6	1	2	3
	PC12. Check correct traveller and confirm the count board		6	1	2	3
	PC13. Replace traveller during count change and as per instructions of supervisor / maintenance in charge		6	1	4	1
	PC14. Ensure proper setting of pneumafil pipe setting		6	1	4	1
	PC15. Check cross roving		4	1	2	1
	PC16. Check top arm lifting		4	1	2	1
	PC17. Check OHTC air blowing		4	1	2	1
	PC18. Check bottom apron, top apron, spacer		7	1	4	2
	PC19. Ensure that only the correct size of traveller is used for replacement.		8	2	2	4
	PC20. Notice damaged bobbins and reuse		6	2	2	2
	PC21. If any quality affecting points noticed, report it to supervisors like missing spacers, spindle vibration damaged aprons, defective cots etc.		6	2	2	2
	PC22. Verify the proper build of the roving bobbin		10	2	2	6

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC23. Support the doffer while carrying out doffing activities		5	2	2	1
	PC24. Record the production details in the production report		8	5	2	1
	PC25. Report to the supervisor in case of emergency stoppage of machine		8	2	4	2
	PC26. Report to the supervisor and maintenance in charge if the operator was able to replace the worn out machine part with a new one.		8	2	4	2
	PC27. Support the maintenance team while machine is under maintenance		8	1	4	3
	PC28. Ensuring all details related to production are provided the next shift operator while relieving		8	2	4	2
	PC29. Ensure count wise storage of wound bobbin without damaging the roving		8	3	4	1
	<b>Total</b>		<b>200</b>	<b>56</b>	<b>93</b>	<b>51</b>
	<b>Weightage %</b>			<b>28</b>	<b>47</b>	<b>25</b>
<b>5.TSC/N9001 (Maintain work area, tools and machines)</b>	PC1. handle materials, machinery, equipment and tools with care and use them in the correct way	<b>50</b>	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
	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

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	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
	<b>Total</b>		<b>50</b>	<b>15</b>	<b>21</b>	<b>14</b>
	<b>Weightage %</b>			<b>30</b>	<b>42</b>	<b>28</b>
<b>6.TSC/N9002 (Working in a team)</b>	PC1. be accountable to the own role in whole process	<b>50</b>	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
	<b>Total</b>		<b>50</b>	<b>16</b>	<b>19</b>	<b>15</b>
	<b>Weightage %</b>			<b>32</b>	<b>38</b>	<b>30</b>
<b>7.TSC/N9003 (maintain health, safety and security at workplace)</b>	PC1. comply with health and safety related instructions applicable to the workplace	<b>100</b>	5	2	2	1
	PC2. use and maintain personal protective equipment such as “ ear plug” “ nose mask “ “ head cap” etc., as per protocol		5	2	2	1

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	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,		4	2	1	1

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	personal, ergonomic, chemical) of the industry					
	PC20. recognise other possible security issues existing in the workplace		4	2	1	1
	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
	<b>Total</b>		<b>100</b>	<b>43</b>	<b>34</b>	<b>23</b>
	<b>Weightage %</b>			<b>43%</b>	<b>34%</b>	<b>23%</b>
<b>8.TSC/N9004 (Comply with industry and organizational requirement)</b>	PC1. perform own duties effectively	<b>50</b>	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
	<b>Total</b>		<b>50</b>	<b>18</b>	<b>19</b>	<b>13</b>
<b>Weightage %</b>		<b>36</b>	<b>38</b>	<b>26</b>		
<b>Grand Total</b>		<b>750</b>	<b>247</b>	<b>318</b>	<b>185</b>	