

# Model Curriculum

## Fitter - Post Spinning

**SECTOR : TEXTILE**  
**SUB-SECTOR : SPINNING - TEXTILES**  
**OCCUPATION : MAINTENANCE - SPINNING MACHINES**  
**REF ID : TSC/Q0403, VERSION 3.0**  
**NSQF LEVEL : 4**



## 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: 'FITTER – POST SPINNING' QP No. 'TSC/ Q 0403' **NSQF Level 1**

Date of Issuance: " २१ ०५ २०२१, २०२१ "

Valid up to: " २१ ०५ २०२२ "

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

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# Fitter – Post Spinning

## CURRICULUM / SYLLABUS

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

<b>Program Name</b>	<b>Fitter – Post Spinning</b>		
<b>Qualification Pack Name &amp; Reference ID.</b>	Fitter – Post Spinning TSC/Q0403, version 3.0		
<b>Version No.</b>	3.0	<b>Version Update Date</b>	25.11.2021
<b>Pre-requisites to Training</b>	<ul style="list-style-type: none"> <li>• 11th grade pass with no experience (OR)</li> <li>• Completed 1st year of 3-year diploma (after 10th) and pursuing regular diploma with no experience (OR)</li> <li>• 10th grade pass plus 1-year NTC/ NAC with no experience (OR)</li> <li>• 8th grade pass plus 2-year NTC plus 1 Year NAC with no experience (OR)</li> <li>• 8th pass plus 1-year NTC plus 1-Year NAC plus CITS with no experience (OR)</li> <li>• 10th grade pass and pursuing continuous schooling (OR)</li> <li>• 10th Grade Pass with 2 year relevant experience (OR)</li> <li>• Previous relevant Qualification of NSQF Level 3.0 with minimum education as 5th Grade pass (OR)</li> <li>• Previous relevant Qualification of NSQF Level 3.5 with 1 year relevant experience"</li> </ul>		
<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 general maintenance activities</li> <li>• Perform preventive maintenance activities</li> <li>• Become familiar in attending break down maintenance</li> <li>• Maintaining records and ensuring availability of spares</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 9 out of 9 National Occupational Standards (NOS) of “Fitter – Post Spinning” 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 operator</b></p> <p><b>Theory Duration</b> (hh:mm) 30:00</p> <p><b>Practical Duration</b> (hh:mm) 60:00</p> <p><b>Corresponding NOS Code</b> TSC/N 0411</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 post spinning fitter</li> <li>• Perform tasks while taking charge of shift and handing over shift</li> <li>• Gain knowledge on count, can content, colour coding, etc.</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>General Maintenance Responsibilities</b></p> <p><b>Theory Duration</b> (hh:mm) 15:00</p> <p><b>Practical Duration</b> (hh:mm) 60:00</p> <p><b>OJT Duration</b> (hh:mm) 15:00</p> <p><b>Corresponding NOS Code</b> TSC/N 0412</p>	<ul style="list-style-type: none"> <li>• Gain knowledge in function of various parts of post spinning machines such as manual cone winding, autoconer, assembly winding and TFO machines</li> <li>• Gain information about various manufacturers and model of post spinning machines</li> <li>• Gain knowledge on textile fibres such as natural, synthetic and regenerated fibres</li> <li>• Sketching of various parts of post spinning machines, various gears, belts, bearings, etc.</li> <li>• Understanding passage of material through machine</li> <li>• Understanding general maintenance schedule of all post machines</li> <li>• Knowledge on handling various tools kits used in post spinning machines</li> <li>• Become well verse in general cleaning of post spinning machines in accordance to the check list</li> <li>• Familiar to greasing to various bearings and oiling &amp; greasing to various machine parts</li> </ul>	<p><u>1. A sample of following items for each trainee:</u></p> <p>Cleaning tools such as brush, cleaning liquids, emery sheet, etc. General tools such as plier, screw driver, spanner, hammer, allen keys, bench vice, pipe wrench, vernier calliper, ring spanner, box spanner, torque spanner, puller, snips, ratchet brace, try square, file, steel rule, test lamp, circlip opener, insulating tape, gloves, electrical soldering iron, etc.</p> <p><u>2. common for every batch:</u> posters for work methods, machine levelling gauge, greasing pump, oil lubricating machine, pressure gauge, shore hardness tester, machine pulley adapter assembly, cots buffing machine, tachometer, etc.</p> <p><u>3. Class room requirements:</u> 25 people seating capacity with a screen and projector</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
3	<p><b>Preventive maintenance responsibilities</b></p> <p><b>Theory Duration</b> (hh:mm) 15:00</p> <p><b>Practical Duration</b> (hh:mm) 30:00</p> <p><b>OJT Duration</b> (hh:mm) 15:00</p> <p><b>Corresponding NOS Code</b> TSC/N 0413</p>	<ul style="list-style-type: none"> <li>Perform cone holder setting, drum pulley alignment and drum shaft servicing</li> <li>Servicing splicer (cleaning, mechanical setting and air adjustment) in autoconer</li> <li>Checking and Setting of splicing, package dia. and length of yarn</li> <li>Checking &amp; setting of EYC</li> <li>Perform head stock overhauling in TFO</li> <li>Replacing spindle oil in TFO</li> </ul>	<p>1. A sample of following items for each trainee:</p> <p>Cleaning tools such as brush, cleaning liquids, emery sheet, etc. General tools such as plier, screw driver, spanner, hammer, allen keys, bench vice, pipe wrench, vernier calliper, ring spanner, box spanner, torque spanner, puller, snips, ratchet brace, try square, file, steel rule, test lamp, circlip opener, insulating tape, gloves, electrical soldering iron, etc.</p> <p>2. common for every batch: posters for work methods, machine levelling gauge, greasing pump, spindle oil lubricating machine, splicing strength tester, pressure gauge, shore hardness tester, machine pulley adapter assembly, cots buffing machine, tachometer, etc.</p> <p>3. Class room requirements: 25 people seating capacity with a screen and projector</p>
4	<p><b>Break down Maintenance</b></p> <p><b>Theory Duration</b> (hh:mm) 15:00</p> <p><b>Practical Duration</b> (hh:mm) 60:00</p> <p><b>OJT Duration</b> (hh:mm) 15:00</p> <p><b>Corresponding NOS Code</b> TSC/N 0414</p>	<ul style="list-style-type: none"> <li>Repairing splicer problems</li> <li>Trouble shooting problems in post spinning machines with respect to the machine performance</li> <li>Attending machine break downs with respect to damage of parts (by worn out/broken)</li> <li>Attending belt cut, spindle tape cut, spindle/drum idle and other minor break downs</li> </ul>	<p>1. A sample of following items for each trainee:</p> <p>Cleaning tools such as brush, cleaning liquids, emery sheet, etc. General tools such as plier, screw driver, spanner, hammer, allen keys, bench vice, pipe wrench, vernier calliper, ring spanner, box spanner, torque spanner, puller, snips, ratchet brace, try square, file, steel rule, test lamp, circlip opener, insulating tape, gloves, electrical soldering iron, etc.</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
5	<b>Maintaining records and ensuring availability of spares</b>  <b>Theory Duration</b> (hh:mm) 15:00  <b>Practical Duration</b> (hh:mm) 30:00  <b>OJT Duration</b> (hh:mm) 15:00  <b>Corresponding NOS Code</b> TSC/N 0415	<ul style="list-style-type: none"> <li>Preparing machine card, ledger, machine down time report, maintenance chart, etc.</li> <li>Maintaining Perform machine auditing</li> <li>Recording day to day activities in log note book</li> <li>Become familiar in critical machine spares</li> <li>Ensuring the spares availability with the stores department</li> <li>Knowing the quality of materials to be purchased</li> </ul>	<u>Class room requirements:</u> 25 people seating capacity with a screen and projector
6	<b>Maintain work area, tools and machines</b>  <b>Theory Duration</b> (hh:mm) 05:00  <b>Practical Duration</b> (hh:mm) 10:00  <b>Corresponding NOS Code</b> TSC/N 9001	<ul style="list-style-type: none"> <li>Gain knowledge on Housekeeping system</li> <li>Identification of tools used in machine maintenance activities</li> <li>handling of equipments</li> <li>perform Maintenance activities for handling equipments</li> </ul>	<u>Class room requirements:</u> 25 people seating capacity with a screen and projector
7	<b>Working in a team</b>  <b>Theory Duration</b> (hh:mm) 05:00  <b>Practical Duration</b> (hh:mm) 10:00  <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
8	<b>Maintain health, safety and security at work place</b>  <b>Theory Duration</b> (hh:mm) 15:00	<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> </ul>	1. A sample of following items for each trainee: apron, head cap, nose mask, ear plug, shoe, 2. common for every batch: first aid materials, fire extinguisher, work method posters/pictures,

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	<b>Practical Duration</b> (hh:mm) 30:00  <b>Corresponding NOS Code</b> TSC/N 9003	<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, firefighting etc.</li> </ul>	<u>3. Class room requirements:</u> 25 people seating capacity with a screen and projector
9	<b>Comply with industry and organisational requirement</b>  <b>Theory Duration</b> (hh:mm) 05:00  <b>Practical Duration</b> (hh:mm) 10:00  <b>Corresponding NOS Code</b> TSC/N 9004	<ul style="list-style-type: none"> <li>Know about organizational and industry standards</li> <li>Know the requirements for self-development</li> <li>Gain knowledge on Organizational &amp; Industry standards</li> </ul>	<u>Class room requirements:</u> 25 people seating capacity with a screen and projector



10	<p><b>Employability Skills (30 Hours)</b></p> <p><b>Theory Duration</b> (hh:mm) 12:00</p> <p><b>Practical Duration</b> (hh:mm) 18:00</p>	<ul style="list-style-type: none"> <li>• Discuss the importance of Employability Skills in meeting the job requirements.</li> <li>• Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen.</li> <li>• Show how to practice different environmentally sustainable practices</li> <li>• Discuss 21st century skills.</li> <li>• Display positive attitude, self-motivation, problem solving, time management skills and continuous learning mindset in different situations.</li> <li>• Use appropriate basic English sentences/phrases while speaking</li> <li>• Demonstrate how to communicate in a well-mannered way with others.</li> <li>• Demonstrate working with others in a team</li> <li>• Show how to conduct oneself appropriately with all genders and PwD</li> <li>• Discuss the significance of reporting sexual harassment issues in time</li> <li>• Discuss the significance of using financial products and services safely and securely.</li> <li>• Explain the importance of managing expenses, income, and savings.</li> <li>• Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws</li> <li>• Show how to operate digital devices and use the associated applications and features, safely and securely</li> <li>• Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely.</li> <li>• Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges.</li> <li>• Differentiate between types of customers</li> <li>• Explain the significance of identifying customer needs and addressing them</li> <li>• Discuss the significance of maintaining hygiene and dressing appropriately.</li> <li>• Create a biodata</li> <li>• Use various sources to search and apply for jobs</li> <li>• Discuss the significance of dressing up neatly and maintaining hygiene for an interview</li> <li>• Discuss how to search and register for apprenticeship opportunities.</li> </ul>	<p>Class room requirements: 25 people seating capacity with a screen and projector</p>
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	<p><b>Total Duration:</b> <b>510:00</b></p> <p><b>Theory Duration</b> <b>132:00</b></p> <p><b>Practical Duration</b> <b>318:00</b></p> <p><b>OJT Duration</b> <b>60:00</b></p>	<p><b>Unique Equipment Required:</b></p> <p>Cleaning tools such as brush, cleaning liquids, emery sheet, etc.</p> <p>General tools such as plier, screw driver, spanner, hammer, allen keys, bench vice, pipe wrench, vernier calliper, ring spanner, box spanner, torque spanner, puller, snips, ratchet brace, try square, file, steel rule, test lamp, circlip opener, insulating tape, gloves, electrical soldering iron, etc.</p> <p>Equipments such as splicing strength tester, setting gauges, machine levelling gauge, greasing pump, spindle oil lubricating machine, pressure gauge, shore hardness tester, machine pulley adapter assembly, cots buffing machine, tachometer, etc.</p> <p>apron, head cap, nose mask, ear plug, shoe, first aid materials, fire extinguisher, work method posters, work method video visuals, projector, screen</p>
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**Grand Total Course Duration: 510 Hours, 0 Minutes**

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

## Trainer Prerequisites for Job role: “Fitter – Post Spinning” mapped to Qualification Pack: “Fitter – Post Spinning /TSC Q 0403, Version 3.0”

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 “Fitter – Post Spinning /TSC Q 0403, Version 3.0”.
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-organized and focused, eager to learn and keep oneself updated with the latest in the mentioned field.
3	<b>Minimum Educational Qualifications</b>	12th Class / ITI in related field <b>OR</b> 10th Class with 2 years relevant experience <b>OR</b> Spinning Preparatory Operator (NSQF Level 3) with 1 year of relevant experience
4a	<b>Domain Certification</b>	Certified for Job Role: “Fitter – Post spinning” mapped to QP: “Fitter – Post Spinning /TSC Q 0403, Version 3.0”. Minimum accepted score 80%.
4b	<b>Platform Certification</b>	Required that the Trainer is certified for MEP/Q 2601 Job Role: “Trainer” with atleast 85% score
5	<b>Experience</b>	Minimum 4 years experience as a Fitter Post Spinning trainer and 1 year as a fitter

## 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"> <li>• have good communication skills</li> <li>• be well versed in English</li> <li>• have digital skills</li> <li>• have attention to detail</li> <li>• be adaptable</li> <li>• have willingness to learn</li> </ul>
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 Fitter - Post Spinning	
Job Role	Fitter - Post Spinning
Qualification Pack	Fitter - Post Spinning (TSC/Q 0403)
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 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 0411 (Taking charge of shift and handing over shift to Fitter - Post Spinning )</b>	PC1. Come at least 10 - 15 minutes earlier to the work spot	<b>100</b>	4	1	2	1
	PC2. Bring the necessary operational tools to the department		6	2	2	2
	PC3. Meet the previous shift fitter 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.		7	2	2	3
	PC4. Understand the count produced, color coding, followed in the post spinning machines		7	3	2	2
	PC5. Patrol around the machines in post spinning department and ensure the smooth functioning of all the machines in the department		6	2	3	1
	PC6. Discuss with previous shift fitter regarding the issues faced in the machines if any		6	1	3	2
	PC7. Ensure all the machines are running properly, machines which are not running and problems if any should be clarified with the fitter, supervisor and operator		5	1	2	2
	PC8. Check the cleanliness of the machines & other work areas		6	2	1	3
	PC9. Check whether any spare/raw material/ tool / yarn / any other material are thrown under the machines or in the other work areas.		4	1	2	1
	PC10. Should question the previous shift maintenance people for any deviation in the above and should bring the same to the knowledge of his/ her shift superior as well that of the previous shift as well.		5	2	2	1
	PC11. Ensure the work spot is clean		4	1	2	1
	PC12. Hand over the shift to the incoming shift fitter in a proper manner		7	2	2	3
	PC13. Ensure in providing the details regarding count produced, color coding followed for his allocated number of machines in post spinning		6	2	2	2
	PC14. Provide all relevant information regarding the count produced, idle machines, damaged machine parts if any		6	1	2	3

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC15. Get clearance from the incoming counterpart before leaving the work spot		4	1	1	2
	PC16. Report to his superiors as well as that of the incoming shift fitter in case his/ her counterpart doesn't report for the incoming shift		4	2	1	1
	PC17. Ensure the shift has to be properly handed over to the incoming shift fitter		5	1	2	2
	PC18. Report to his shift superior about the quality / production / maintenance issues / safety issues/ any other issue faced in his shift and should leave the department only after getting concurrence for the same from his/ her superiors		4	1	2	1
	PC19. Ensure the work spot is clean		4	1	2	1
	<b>Total</b>		<b>100</b>	<b>29</b>	<b>37</b>	<b>34</b>
	<b>Weightage %</b>		<b>100%</b>	<b>29</b>	<b>37</b>	<b>34</b>
<b>2. TSC/N0412 (General Maintenance Responsibilities of Fitter - Post Spinning)</b>	PC1. Patrol around the work area before the start of the shift and observing the working	<b>75</b>	5	2	2	1
	PC2. Note down the machines stopped for repairs and the type of problem.		6	2	3	1
	PC3. Dismantle and assemble different mechanisms in machines on need basis		7	2	4	1
	PC4. Understand the quality complaints in the machines.		6	2	3	1
	PC5. Understand the works done till now and the works pending in the machines stopped for repairs or for maintenance works or modifications.		5	2	2	1
	PC6. Understand the production plan and make changes in settings of machines accordingly		5	2	3	0
	PC7. Understand the machines allotted for various mixings and deciding on the parameters to be checked while doing maintenance like condition of beaters, grid bar settings, the wire points to be mounted on cards, quality of wire points, card settings, half laps to be put on combers, comber settings, settings at draw frames, functioning of stop motions, top arm settings in speed frames, the buffing quality		7	3	3	1

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	of the top rollers in draw frames, combers and speed frames and so on					
	PC8. Allocate the workers for different tasks considering their knowledge, skills, maturity and workloads agreed.		5	2	1	2
	PC9. Refer to process parameters and working out the changes to be made for change in hank or product mix and getting the changes made by the concerned maintenance workers.		7	2	3	2
	PC10. Ensure the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers.		5	2	2	1
	PC11. Counsel and influence a poor performing worker to produce as per norms		5	1	1	3
	PC12. View at display panel board and identify the reason for breakdown maintenance		6	2	3	1
	PC13. Identify any abnormal sound in machine and stopping the machine for carrying out maintenance activities		6	2	3	1
	<b>Total</b>		<b>75</b>	<b>26</b>	<b>33</b>	<b>16</b>
	<b>Weightage %</b>		<b>100</b>	<b>35</b>	<b>44</b>	<b>21</b>
<b>3. TSC/N 0413 (Preventive maintenance responsibilities of Fitter - Post Spinning)</b>	PC1. check the proper functioning of machines like autoconer, manual cone winding, assembly winding, TFO and the ancillaries like trolleys, filters, and roller covering and so on	<b>75</b>	5	2	2	1
	PC2. Check the conditions of machine parts while they are being cleaned/scoured or overhauled		5	2	2	1
	PC3. Ensure the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers		5	2	2	1
	PC4. Change the settings of the machines on need basis		6	2	3	1
	PC5. Identify the worn out parts and getting the worn-out parts replaced.		7	3	3	1
	PC6. Verify the safety stop motions and getting them attended		6	2	2	2

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC7. Monitor the stoppages due to breakdowns and analysing the reasons for breakdowns and taking precautionary measures.		6	2	2	2
	PC8. Monitor the mounting activities in post spinning machines.		7	3	3	1
	PC9. Conduct the tool audits i.e. The tools used for maintenance like spanners, top arm gauge, lubricating and flushing pumps, buffing machines, mounting machines, etc.		7	2	3	2
	PC10. Oil and grease the different machine parts at scheduled interval for smooth functioning of machines		6	2	3	1
	PC11. Scheduling the oiling & greasing activities		5	2	2	1
	PC12. Ensure correct oil and grease are taken		5	2	2	1
	PC13. Ensure proper functioning of machines in post spinning department		5	2	2	1
	<b>Total</b>		<b>75</b>	<b>28</b>	<b>31</b>	<b>16</b>
	<b>Weightage %</b>		<b>100</b>	<b>37</b>	<b>41</b>	<b>22</b>
<b>4. TSC/N0414 (Breakdown Maintenance of machines in Post Spinning)</b>	PC1. Attend the machine on a break down	<b>70</b>	4	1	2	1
	PC2. Report to the maintenance in charge on a breakdown		4	1	1	2
	PC3. Prepare the machine for carrying out breakdown maintenance		4	1	2	1
	PC4. Ensure in bringing the proper tool and equipments required for carrying out maintenance		4	1	2	1
	PC5. Analyse the machine which is under breakdown		5	1	3	1
	PC6. Identify the reason for breakdown		5	1	3	1
	PC7. Carry out maintenance activities		5	1	3	1
	PC8. Replace worn out / damaged parts with new parts		5	1	3	1
	PC9. Ensure safety while carrying out maintenance activity		4	1	2	1
	PC10. Ensure proper material handling of maintenance tools		4	2	2	0
	PC11. Check for proper functioning of machine after maintenance		5	1	3	1
	PC12. Run the machine and check for smooth functioning of machine parts		4	1	3	0



National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC13. Repair if further fine tuning is needed		4	1	3	0
	PC14. Ensure the output material quality is as per quality requirement.		5	1	3	1
	PC15. Ensuring the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers		4	1	2	1
	PC16. Ensure minimum time taken for attending the breakdown, identifying the reason for breakdown and carryout the breakdown maintenance activities		4	1	2	1
	<b>Total</b>		<b>70</b>	<b>17</b>	<b>39</b>	<b>14</b>
	<b>Weightage %</b>		<b>100</b>	<b>24</b>	<b>56</b>	<b>20</b>
5. TSC/N0415 (Maintaining records and ensuring availability of spares of machines in Post Spinning)	PC1. Carry out maintenance auditing	<b>30</b>	4	1	2	1
	PC2. Record the activities in the log book (report book) and updating the machine maintenance history book		4	2	2	0
	PC3. Verify the stock of various spares, accessories and lubricants and working out the indenting plan and placing indents.		4	2	2	0
	PC4. Refer the machinery catalogues and identifying the correct spares needed		3	2	1	0
	PC5. Check the quality of materials received at stores, for e.g. Bearings, wheels, arbours, machine spares, belts, brushes, spanners and other tools, etc.		4	1	2	1
	PC6. Carry out maintenance machine audit		4	1	2	1
	PC7. Maintain records of maintenance		3	1	1	1
	PC8. Ensure availability of spares and giving requisitions on need basis		4	1	2	1
	<b>Total</b>		<b>30</b>	<b>11</b>	<b>14</b>	<b>5</b>
	<b>Weightage %</b>		<b>100</b>	<b>37</b>	<b>47</b>	<b>16</b>
6.TSC/N9001 (Maintain work area, tools and machines)	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>100</b>	<b>30</b>	<b>42</b>	<b>28</b>
<b>7.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		5	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	1	1
	PC9. give due importance to others' point of view		4	1	1	1
	PC10. avoid conflicting situations		4	1	1	1
	PC11. collaborate with colleagues performing the pre-required and post-required duty of ring frame tenter		4	2	1	1
	PC12. develop new ideas for work procedures		4	1	2	1

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC13. improve upon the existing techniques to increase process efficiency		4	1	2	1
	<b>Total</b>		<b>50</b>	<b>17</b>	<b>17</b>	<b>16</b>
	<b>Weightage %</b>		<b>100</b>	<b>32</b>	<b>34</b>	<b>34</b>
<b>8.TSC/N9003 (Maintain health, safety and security at work place)</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
	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 organizational 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

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC17. take action based on instructions in the event of fire, emergencies or accidents		5	2	2	1
	PC18. follow organization 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. recognize other possible security issues existing in the workplace		4	2	1	1
	PC21. recognize 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>100</b>	<b>43</b>	<b>34</b>	<b>23</b>
<b>9.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 organizational 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 organization standards		4	2	1	1
	<b>Total</b>		<b>50</b>	<b>18</b>	<b>19</b>	<b>13</b>
	<b>Weight age %</b>		<b>100</b>	<b>36</b>	<b>38</b>	<b>26</b>

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory Marks	Practical Marks	Viva Marks
<b>10. DGT/VSQ/N0101 – Employability Skills</b>	<b>Introduction to Employability Skills</b>			1	1	-
	1. understand the significance of employability skills in meeting the job requirements					
	<b>Constitutional values – Citizenship</b>			1	1	-
	2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices.					
	<b>Becoming a Professional in the 21st Century</b>			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.					
	<b>Basic English Skills</b>			2	3	-
	4. speak with others using some basic English phrases or sentences					
	<b>Communication Skills</b>			1	1	-
	5. follow good manners while communicating with others					
	6. work with others in a team					
	<b>Diversity &amp; Inclusion</b>			1	1	-
	7. communicate and behave appropriately with all genders and PwD					
	8. report any issues related to sexual harassment					
	<b>Financial and Legal Literacy</b>			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					

	<b>Essential Digital Skills</b>			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					
	<b>Entrepreneurship</b>			3	5	-
	14. identify and assess opportunities for potential business					
	15. identify sources for arranging money and associated financial and legal challenges					
	<b>Customer Service</b>			2	2	-
	16. identify different types of customers					
	17. identify customer needs and address them appropriately.					
	18. follow appropriate hygiene and grooming standards.					
	<b>Getting ready for apprenticeship &amp; Jobs</b>			1	3	-
	19. create a basic biodata					
	20. search for suitable jobs and apply					
	21. identify and register apprenticeship opportunities as per requirement					
	<b>NOS Total</b>		<b>50</b>	<b>20</b>	<b>30</b>	<b>-</b>
	<b>Grand Total</b>		<b>650</b>	<b>224</b>	<b>275</b>	<b>151</b>



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