

## QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR TEXTILE SECTOR



### What are Occupational Standards(OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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## Introduction

### Qualifications Pack – Ring Frame Tenter

**SECTOR: TEXTILE**

**SUB-SECTOR: SPINNING**

**OCCUPATION: SPINNING**

**REFERENCE ID: TSC/Q 0201**

**ALIGNED TO: NCO-2004 / 8261.35**

**Brief Job Description:** A ring frame tenter is responsible for carrying out tenting activities in a ring frame machine. A ring frame tenter should be able to creel the roving bobbin, piece the yarn and carry out routine cleaning and preventive maintenance activities to produce defect free yarn and ensure quality ring cops are produced in ring frame machine.

This job requires the individual to have thorough knowledge of process flow and material flow in a spinning mill for yarn production and should know about the important functions and operations of a ring frame machine.

**Personal Attributes:** A ring frame tenter should have good eyesight, hand-eye-leg coordination, motor skills and vision. He/she should also have good interpersonal skills.

Job Details	Qualifications Pack Code	TSC/Q0201		
	Job Role	Ring Frame Tenter		
	Credits (NSQF)	TBD	Version number	1.0
	Sector	Textile	Drafted on	15/12/14
	Sub-sector	Spinning	Last reviewed on	25/02/15
	Occupation	Spinning	Next review date	01/03/16

Job Role	Ring Frame Tenter
Role Description	To carry out tenting activities in a Ring frame machine ensuring minimum machine stoppage and achieving maximum production.
NSQF level	4
Minimum Educational Qualifications	5 <sup>th</sup> standard, preferably
Maximum Educational Qualifications	N/A
Training (Suggested but not mandatory)	Not Applicable
Experience	Preferably 1-2 years of work experience in a textile mill
National Occupational Standards (NOS)	<b>Compulsory:</b> <ol style="list-style-type: none"> <li><a href="#">TSC/ N0201 Taking charge of shift and handing over shift to Ring Frame Tenter</a></li> <li><a href="#">TSC/ N0202 Creeling the roving bobbin at Ring Frame</a></li> <li><a href="#">TSC/ N0203 Piecing the broken yarn at Ring Frame</a></li> <li><a href="#">TSC/ N0204 Carryout cleaning activities at Ring Frame</a></li> <li><a href="#">TSC/ N9001 Maintain work area, tools and machines</a></li> <li><a href="#">TSC/ N9002 Working in a team</a></li> <li><a href="#">TSC/ N9003 Maintain health, safety and security at workplace</a></li> <li><a href="#">TSC/ N9004 Comply with industry and organizational requirement</a></li> </ol> <b>Optional:</b> N/A
Performance Criteria	As described in the relevant OS units

## Glossary of Key Terms

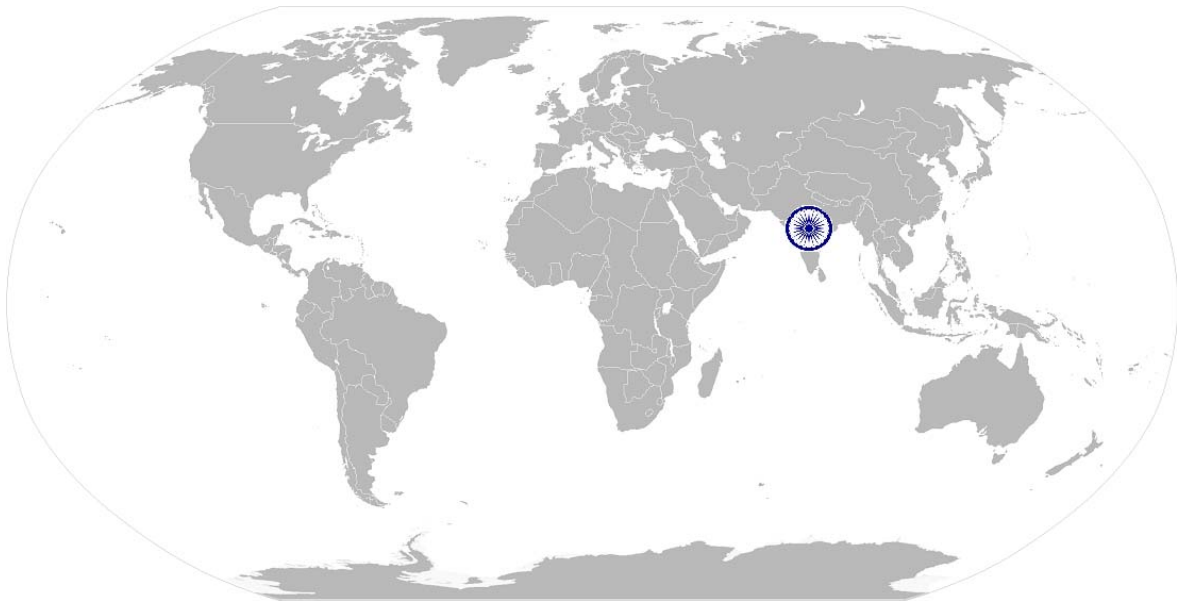
Definitions	Keywords /Terms	Description
	Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
	Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
	Vertical	Vertical may exist within a sub-sector representing different domain areas or the client industries served by the industry.
	Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
	Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.
	Sub-functions	Sub-functions are sub-activities essential to fulfill the achieving the objectives of the function.
	Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
	Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
	Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
	National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context.
	Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
	Qualifications Pack(QP)	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.
	Unit Code	Unit Code is a unique identifier for an OS unit, which can be denoted with either an 'O' or an 'N'.
	Unit Title	Unit Title gives a clear overall statement about what the incumbent should be able to do.
	Description	Description gives a short summary of the unit content. This would be

	helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is the set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on the quality of performance required.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
Organizational Context	Organizational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the OS , these include communication related skills that are applicable to most job roles.
Keywords /Terms	Description
SSC	Sector Skill Council
OS	Occupational Standard(s)
NOS	National Occupational Standard(s)
QP	Qualifications Pack
NSQF	National Skill Qualifications Framework
NCO	National Classifications of Occupation
TBD	To Be Determined
TSC	Textile Sector Skill Council
NSDC	National Skill Development Corporation

TSC/ N0201

Taking charge of shift and handing over shift to Ring Frame Tenter

# National Occupational Standard



## Overview

This unit is about taking charge of shift from previous shift Ring Frame Tenter and relieving the responsibilities to the next shift Ring Frame Tenter.

**TSC/ N 0201**

**Taking charge of shift and handing over shift to Ring Frame Tenter**

<b>Unit Code</b>	<b>TSC/ N0201</b>
<b>Unit Title (Task)</b>	<b>Taking charge of shift and handing over shift to Ring Frame Tenter</b>
<b>Description</b>	This unit is about taking charge of shift from previous shift <b>Ring Frame Tenter</b> and relieving the responsibilities to the next shift <b>Ring Frame Tenter</b>
<b>Scope</b>	<b>This unit/task covers the following:</b> <ul style="list-style-type: none"> <li>Taking charge of shift from <b>Ring Frame Tenter</b></li> <li>Handing over shift to <b>Ring Frame Tenter</b></li> </ul>
<b>Elements</b>	<b>Performance Criteria</b>
<b>Taking charge of shift from Ring Frame Tenter</b>	<p>To be competent, you must be able to:</p> <p>PC1. come atleast 10 - 15 minutes earlier to the work spot</p> <p>PC2. bring the necessary operational tools to the department</p> <p>PC3. meet the previous shift operator and discuss with him/ her regarding the issues faced by them with respect to the quality or production, spare, safety or any other specific instruction etc.</p> <p>PC4. understand the count produced, colour coding, followed in the ring frames for his allocated number of spindles or machines</p> <p>PC5. ensure the technical details are mentioned in the display board in the ring frame machine</p> <p>PC6. check for the availability of the spare roving bobbins</p> <p>PC7. check the availability of bobbin trolley with technical details mentioned regarding the count being produced</p> <p>PC8. check the condition of running travellers</p> <p>PC9. check the roving passage and yarn formation</p> <p>PC10. check for the run outs &amp; availability of the roving bobbins</p> <p>PC11. ensure that all spindles are running properly, if not should be enquired for and the reason for idle spindle reported to the superiors regarding the same</p> <p>PC12. check the condition of different running cops</p> <p>PC13. ensure proper functioning of ring frame machine parts and machine</p> <p>PC14. ensure that all allocated spindles are running with uniform length of yarn on cop, variations if any should be discussed with operator and reported to superiors</p> <p>PC15. check the condition of running spindles, damages if any should be reported to the superior</p> <p>PC16. check the cleanliness of the machines &amp; other work areas</p> <p>PC17. check for any spare/raw material/ tool / yarn / any other material thrown under the machines or in the other work areas.</p> <p>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 as that of the previous shift.</p> <p>PC19. ensure that there is no roller lapping in ring frame</p> <p>PC20. remove the roller lapping manually if any without damaging the cots</p> <p>PC21. in case of burnt out travellers, ensure that only the correct size of traveller is used for replacement</p> <p>PC22. ensure the wastes collection boxes are empty while taking charge of shift</p>



**TSC/ N 0201 Taking charge of shift and handing over shift to Ring Frame Tenter**

	<p>PC23. ensure the ohtc is working properly</p> <p>PC24. ensure the work spot is clean</p> <p>PC25. take over the shift from the outgoing ring frame tenter in a proper manner</p>
<b>Handing over shift to Ring Frame Tenter</b>	<p>PC26. ensure in providing the details regarding count produced, colour coding followed in the ring frames for his allocated number of spindles or machines</p> <p>PC27. provide all relevant information regarding the count produced, idle spindles, damaged machine parts if any</p> <p>PC28. get clearance from the incoming counterpart before leaving the work spot</p> <p>PC29. report to his/ her shift superiors as well as that of the incoming shift in case his/ her counterpart doesn't report for the incoming shift</p> <p>PC30. ensure, the shift has to be properly handed over to the incoming shift operator</p> <p>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</p> <p>PC32. collect the wastes from waste collection bags, weigh them and transport to storage area</p> <p>PC33. ensure the work spot is clean</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company/ organization and its processes)	<p>You need to know and understand:</p> <p>KA1. standard operating procedures (SOP) and regulations in a spinning mill</p> <p>KA2. safe working practices to be adopted in spinning mill</p> <p>KA3. quality systems and other processes practiced in the spinning mill</p> <p>KA4. reporting to the supervisor or higher authority in case of emergency</p> <p>KA5. color coding adopted for different counts in the spinning mill</p>
<b>B. Technical Knowledge</b>	<p>KB1. Understanding the importance of :</p> <ul style="list-style-type: none"> <li>• types of fibres</li> <li>• roving hank</li> <li>• importance of roving quality</li> <li>• types of roving defects</li> <li>• types of yarn</li> <li>• yarn count</li> <li>• types of yarn defects</li> </ul> <p>KB2. process flow in a spinning mill</p> <p>KB3. material flow in a spinning mill</p> <p>KB4. importance of mixing &amp; count change</p> <p>KB5. functions of different parts of ring frame machine</p> <p>KB6. importance of colour coding followed for different counts in spinning mill</p> <p>KB7. knowledge of waste collection system &amp; equipments used</p> <p>KB8. importance of material handling and types of material handling equipments used</p> <p>KB9. functions and methodology for operating different material handling equipments</p> <p>KB10. guidelines for operating the ring frame machine</p>

**TSC/ N 0201**

**Taking charge of shift and handing over shift to Ring Frame Tenter**

	<p>KB11. guidelines for taking charge of shift from previous shift Ring Frame Tenter guidelines for handing over the shift to the next shift Ring Frame Tenter importance of cleanliness at workplace</p> <p>KB12. safety procedures to be followed in a ring frame machine</p>
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	You need to know and understand how to:
	SA1. write clear and short sentences
	<b>Reading Skills</b>
	SA2. comprehend written instructions
<b>B. Professional Skills</b>	<b>Oral Communication (Listening and Speaking skills)</b>
	SA3. communicate with supervisor appropriately
	SA4. talk to others to convey information effectively
	<b>Problem Solving</b>
	SB1. apply problem-solving approaches in different situations
	SB2. refer anomalies to the supervisor
	SB3. seek clarification on problems from others
	<b>Attention to Detail</b>
	SB4. apply good attention to detail
	SB5. check your work is complete and free from errors
	You need to know and understand how to:
	SB6. patrol around the ring frame machine and identify roving breakage or bobbin exhaust
	SB7. operate different material handling tools and equipments
	SB8. patrol around the ring frame departments and identifying worn out or damaged machine parts
	SB9. check the quality of ring cops, roving bobbins, proper functioning of machine parts in ring frame machine
	SB10. maintenance of neatness at work place

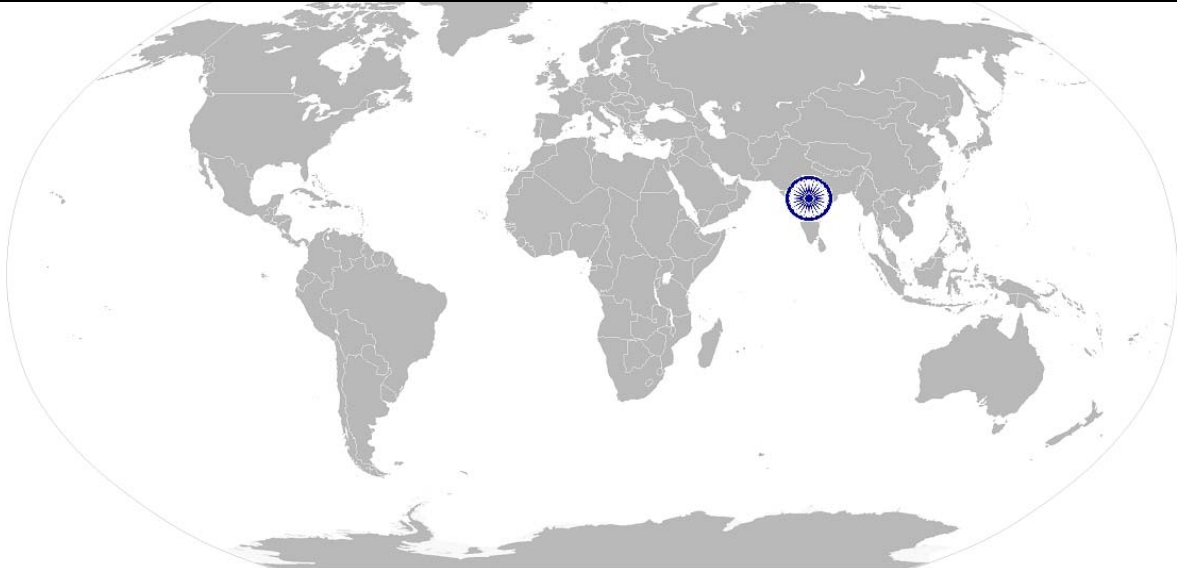


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**Taking charge of shift and handing over shift to Ring Frame Tenter**

**NOS Version Control**

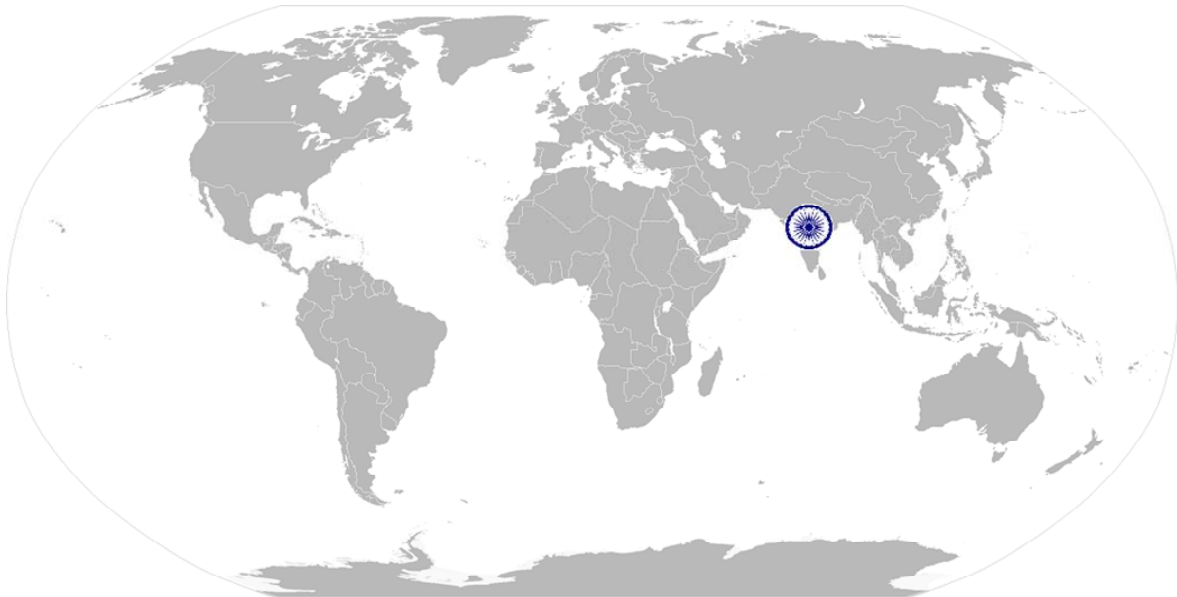
NOS Code	TSC/ N0201		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Spinning	Next review date	01/03/16



TSC/N 0202

Creeling the roving bobbin at Ring Frame

# National Occupational Standard



## Overview

This unit is about creeling the roving bobbin in a ring frame machine in the event bobbin exhaust and piecing roving breakage.

TSC/N 0202

Creeling the roving bobbin at Ring Frame

National Occupational Standard

<b>Unit Code</b>	<b>TSC/ N0202</b>
<b>Unit Title (Task)</b>	<b>Creeling the roving bobbin at Ring Frame</b>
<b>Description</b>	This unit is about carrying out procedure for carrying out creeling activities in the event of a roving bobbin exhaust and piecing roving breakage
<b>Scope</b>	<b>This unit/task covers the following:</b> <ul style="list-style-type: none"> <li>attending the machine for creeling</li> <li>piecing the broken roving</li> <li>material handling of the roving</li> <li>checking the quality of piecing</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Elements</b>	<b>Performance Criteria</b>
<b>Attending the machine for creeling</b>	<p>To be competent, you must be able to:</p> <p>PC1. bring the roving bobbin from storage area using bobbin trolley</p> <p>PC2. ensure correct colour coded bobbins are taken to ring frame section</p> <p>PC3. identify roving bobbin exhausts and removing the empty bobbin</p> <p>PC4. replace exhausted roving bobbin with suitable bobbins on the creel from the reserve holder / trolley</p> <p>PC5. ensure that colour coding of feed in the creel is correct</p> <p>PC6. creel the full roving bobbin</p> <p>PC7. ensure proper passage of roving</p> <p>PC8. ensure that minimum time is taken for attending the roving breakage</p>
<b>Piecing the broken roving</b>	<p>PC9. ensure that the roving passes through the creeling section without affecting the quality of roving</p> <p>PC10. draw the roving end with minimum waste and then piece up the yarn</p> <p>PC11. ensure proper length of roving is available for piecing</p> <p>PC12. piece the broken roving together in the event of roving breakage at creel section</p> <p>PC13. ensure standard piecing procedure is adopted and quality and size of piecing is within the standards</p> <p>PC14. keep the roving waste in the waste collection pocket provided to each tenter and then put in the waste collection box</p> <p>PC15. ensure minimum time is taken for piecing the roving</p>
<b>Material handling of the roving</b>	<p>PC16. properly handle the roving and roving bobbin</p> <p>PC17. ensure roving surface doesn't get damaged</p>
<b>Checking the quality of piecing</b>	<p>PC18. verify the quality of piecing done in the roving</p> <p>PC19. ensure roving tension in the creeling section is appropriate</p> <p>PC20. ensure proper functioning of the machine</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company/ organization and	<p>You need to know and understand:</p> <p>KA1. standard operating procedures (SOP) and regulations in a spinning mill</p> <p>KA2. safe working practices to be adopted in spinning mill</p> <p>KA3. quality systems and other processes practiced in the spinning mill</p> <p>KA4. reporting to the supervisor or higher authority in case of emergency</p>

TSC/N 0202

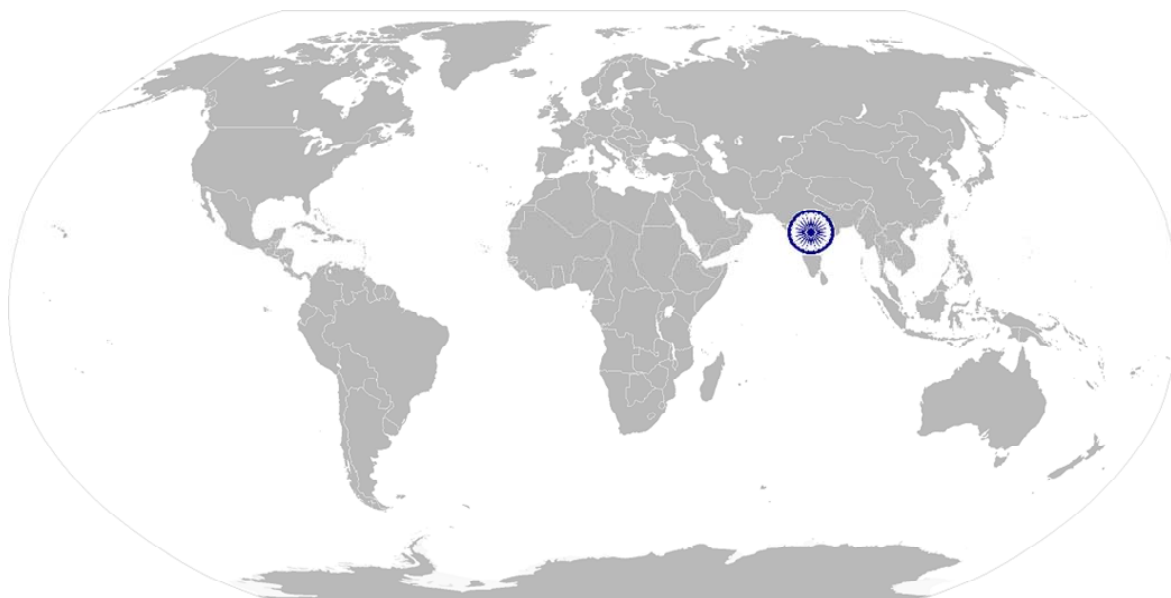
### Creeling the roving bobbin at Ring Frame

its processes)	KA5. color coding adopted for different counts in the spinning mill
<b>B. Technical Knowledge</b>	<p>You need to know and understand:</p> <p>KB1. the importance of</p> <ul style="list-style-type: none"> <li>• types of fibres</li> <li>• types of yarn</li> <li>• yarn count</li> <li>• types of roving</li> <li>• roving hank</li> <li>• importance of roving quality</li> <li>• types of roving defects</li> <li>• reasons for roving breakage</li> </ul> <p>KB2. process flow in a spinning mill</p> <p>KB3. material flow in a spinning mill</p> <p>KB4. functions of different parts of ring frame machine</p> <p>KB5. importance of creeling activity</p> <p>KB6. importance of colour coding followed for different counts in spinning mill</p> <p>KB7. functions of various tools and equipments used</p> <p>KB8. knowledge of waste collection system &amp; equipments used</p> <p>KB9. importance of material handling and types of material handling equipments used</p> <p>KB10. functions and methodology for operating different material handling equipments</p> <p>KB11. understanding the functions of different signal lamps</p> <p>KB12. guidelines for operating the ring frame machine</p> <p>KB13. safety procedures to be followed in a ring frame machine</p>
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	You need to know and understand how to:
	SA1. write clear and short sentences
	<b>Reading Skills</b>
	SA2. comprehend written instructions
<b>B. Professional Skills</b>	<b>Oral Communication (Listening and Speaking skills)</b>
	SA3. communicate with supervisor appropriately
	SA4. talk to others to convey information effectively
	<b>Problem Solving</b>
<b>B. Professional Skills</b>	You need to know and understand how to:
	SB1. apply problem-solving approaches in different situations
	SB2. refer anomalies to the supervisor
	SB3. seek clarification on problems from others
	<b>Attention to Detail</b>
<b>B. Professional Skills</b>	SB4. apply good attention to detail
	SB5. check your work is complete and free from errors
	You need to know and understand how to:

**TSC/N 0202**

**Creeling the roving bobbin at Ring Frame**

- SB6. standard operating procedures to be followed for creeling the roving
- SB7. patrol around the ring frame machine and identify roving breakage or bobbin exhaust
- SB8. transport the bobbin trolley
- SB9. any damaged bobbin noticed should be cleaned and reused
- SB10. procedure for unraveling the roving from the roving bobbin
- SB11. standard piecing technique adopted for piecing the broken roving
- SB12. check the quality of piecing
- SB13. procedure for operating different material handling tools and equipments
- SB14. maintain neatness at work place

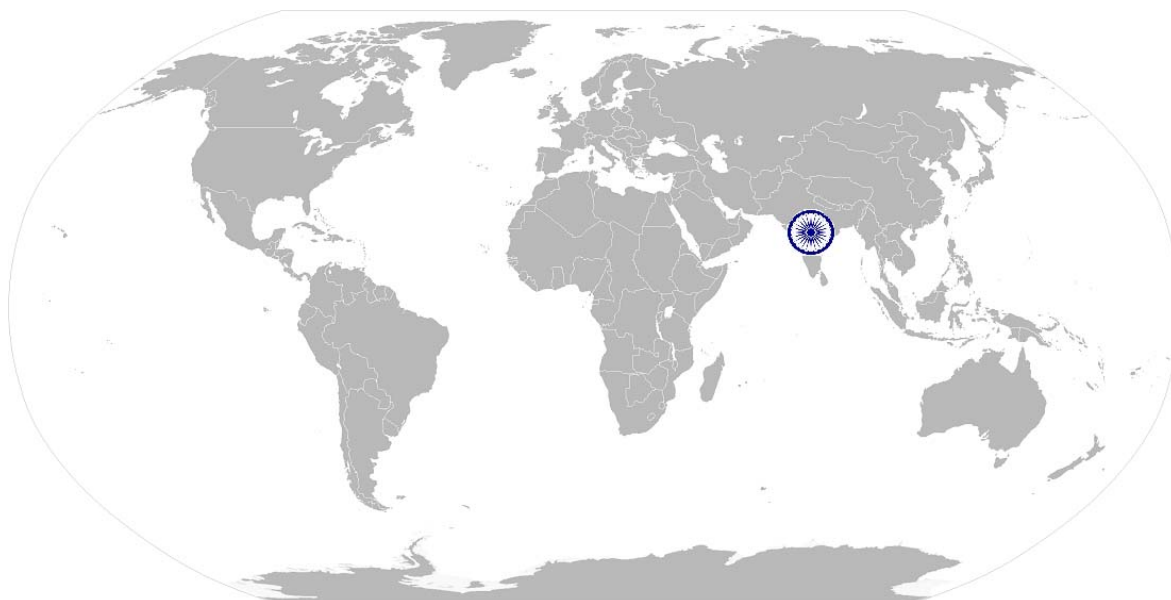


**TSC/N 0202**

**Creeling the roving bobbin**

**NOS Version Control**

NOS Code	TSC/ N0202		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Spinning	Next review date	01/03/16

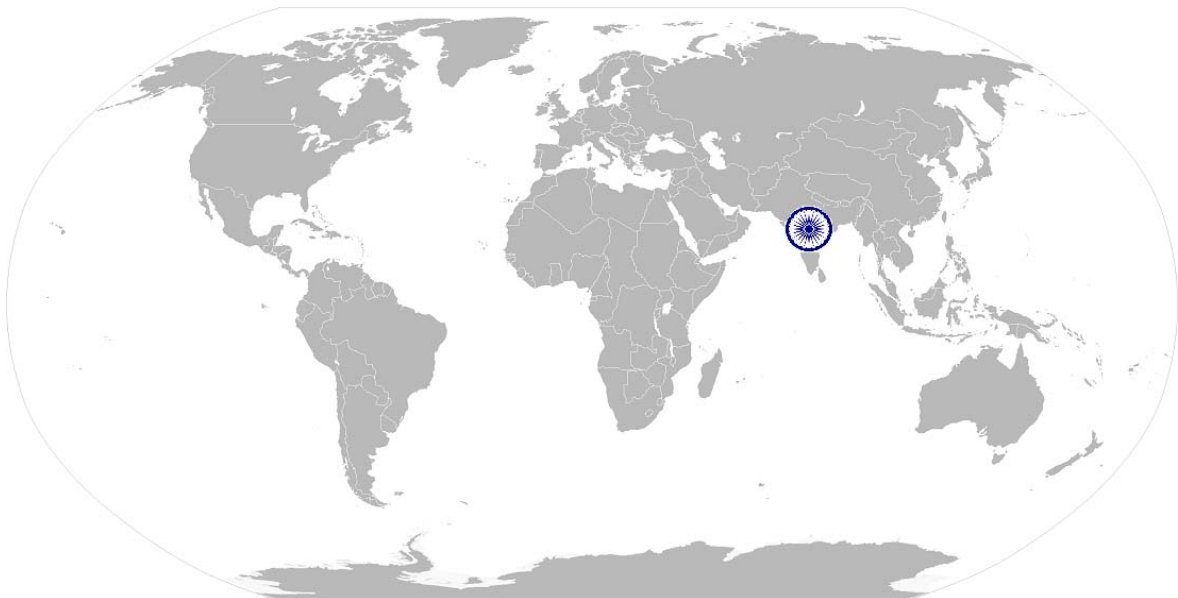




TSC/N 0203

Piecing the broken yarn at Ring Frame

# National Occupational Standard



## Overview

This unit is about carrying out procedure for piecing the yarn in the event of a yarn breakage.

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Piecing the broken yarn at Ring Frame

National Occupational Standard

<b>Unit Code</b>	<b>TSC/N 0203</b>
<b>Unit Title (Task)</b>	<b>Piecing the broken yarn at Ring Frame</b>
<b>Description</b>	This unit is about carrying out procedure for piecing the yarn in the event of a yarn breakage
<b>Scope</b>	<b>This unit/task covers the following:</b> <ul style="list-style-type: none"> <li>Identifying yarn breakage</li> <li>piecing the broken yarn</li> <li>ensure proper material handling of yarn</li> <li>checking the quality of pieced yarn</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Elements</b>	<b>Performance Criteria</b>
<b>Identifying yarn breakage</b>	<p>To be competent, you must be able to:</p> <p>PC1. patrol around the ring frame machine &amp; identify the yarn breakage in ring frame</p> <p>PC2. ensure minimum time is taken for attending the yarn breakages</p> <p>PC3. check for yarn break, traveller fly, undraft &amp; roller lapping</p> <p>PC4. apply the knee break to stop the spindle</p> <p>PC5. check the cop quality</p> <p>PC6. ensure proper seating of empties in the spindle after yarn piecing</p> <p>PC7. verify the quality of piecing done in the yarn</p> <p>PC8. attend to the end breakage as and when they occur</p>
<b>Piecing the broken yarn</b>	<p>PC9. take yarn from cop to feed ABC Ring and insert traveller, lappet hook cut the yarn (10mm) and to start piecing</p> <p>PC10. piece the yarn between false twister and drafting zone by following standard piecing techniques</p> <p>PC11. ensure proper seating of empties in the spindle after yarn piecing</p> <p>PC12. ensure proper traveller running</p> <p>PC13. ensure minimum time is taken for piecing the yarn</p> <p>PC14. ensure proper material handling of ring cops</p> <p>PC15. ensure the yarn should be pieced with minimum overlapping</p>
<b>Ensure proper material handling of yarn</b>	<p>PC16. put the roving ends and roller bond waste in the bags or pockets of coat / apron while attending the end breakages.</p> <p>PC17. ensure proper material handling of yarn and cops</p>
<b>Checking the quality of pieced yarn</b>	<p>PC18. ensure that the quality of piecing is as per standard</p> <p>PC19. ensure the tension of the pieced yarn is proper</p> <p>PC20. ensure that the cop is perfectly fit in the spindle</p> <p>PC21. verify proper material passage from drafting zone till the yarn wound in cop</p> <p>PC22. remove the pneumafil waste and yarn waste and deposit in the respective waste collection bags</p> <p>PC23. ensure proper functioning of the machine</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b>	<p>You need to know and understand:</p> <p>KA1. standard operating procedures (SOP) and regulations in a spinning mill</p>

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**Piecing the broken yarn at Ring Frame**

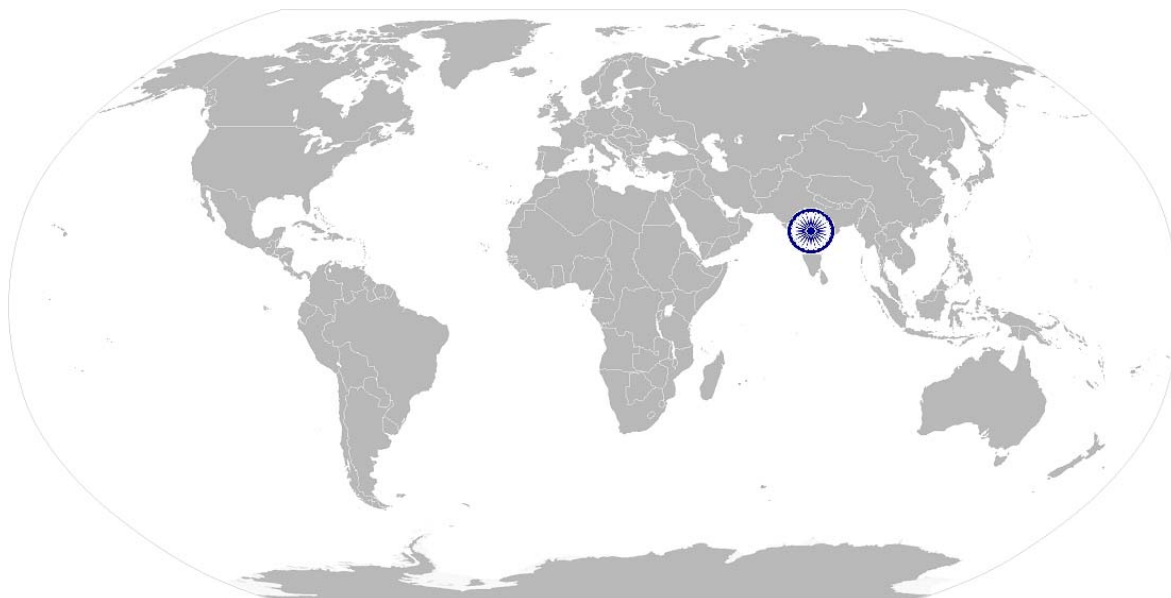
(Knowledge of the company/ organization and its processes)	<p>KA2. safe working practices to be adopted in spinning mill</p> <p>KA3. quality systems and other processes practiced in the spinning mill</p> <p>KA4. reporting to the supervisor or higher authority in case of emergency</p> <p>KA5. color coding adopted for different counts in the spinning mill</p>
<b>B. Technical Knowledge</b>	<p>You need to know and understand:</p> <p>KB1. the importance of different types of fibres, roving, yarn, hank and count.</p> <p>KB2. process flow and material flow in a spinning mill</p> <p>KB3. functions of different parts of a ring frame machine</p> <p>KB4. different types of roving defects and reason for roving breakage</p> <p>KB5. importance of piecing</p> <p>KB6. operations of various tools and equipments used for piecing</p> <p>KB7. knowledge of waste collection system &amp; material handling equipments used</p> <p>KB8. functions of different signal lamps and control buttons</p> <p>KB9. guidelines for operating the ring frame machine</p> <p>KB10. safety procedures to be followed in a ring frame machine</p>
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	you need to know and understand how to:
	SA1. write clear and short sentences.
	<b>reading skills</b>
	SA2. comprehend written instructions
	<b>Oral Communication (Listening and Speaking skills)</b>
	SA3. communicate with supervisor appropriately
	SA4. talk to others to convey information effectively
	You need to know and understand :
	SA5. patrolling procedure to attend the end breaks without delay
	SA6. procedure for finding the broken yarn
	SA7. procedure for stopping the spindle using knee break
	SA8. procedure to unwind the yarn in cop
	SA9. standard piecing technique for piecing the broken yarn
	SA10. procedure for mounting the cop in the spindle
	SA11. check the quality of piecing
	SA12. procedure for depositing the waste.
	SA13. maintain neatness at work place

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**Piecing the broken yarn at Ring Frame**

**NOS Version Control**

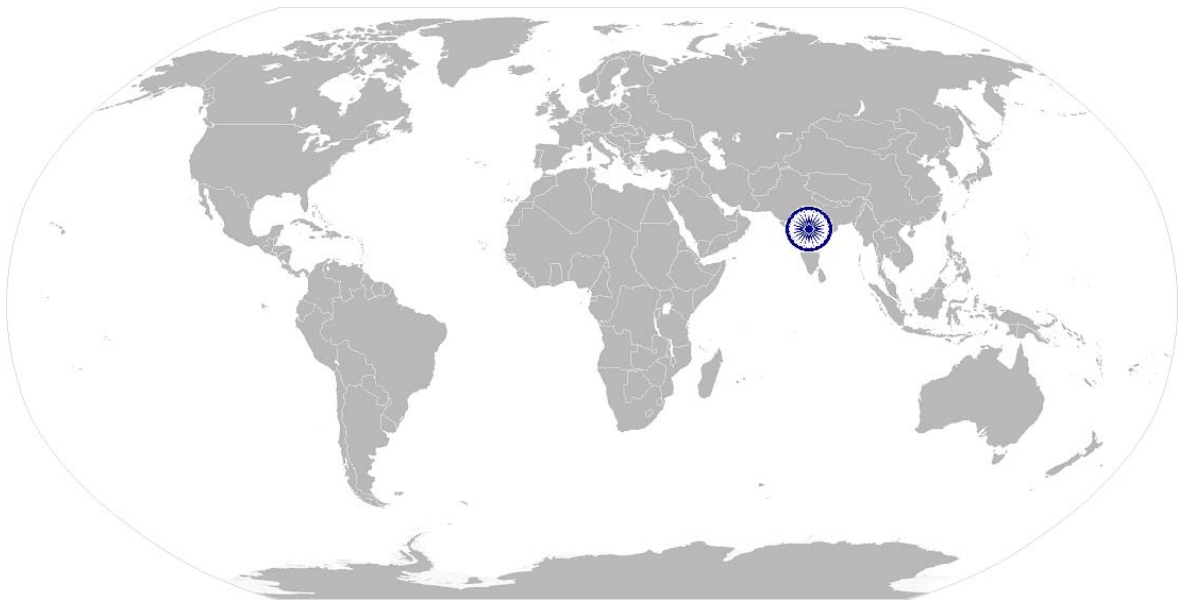
NOS Code	TSC/N 0203		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Spinning	Next review date	01/03/16



TSC/ N0204

Carryout cleaning activities at Ring Frame

# National Occupational Standard



## Overview

This unit is about carrying out cleaning responsibilities associated with ring frame machine.

**TSC/ N0204**

**Carryout cleaning activities at Ring Frame**

National Occupational Standard

Unit Code	TSC/ N0204
Unit Title(Task)	Carryout cleaning activities at Ring Frame
Description	This unit is about carrying out the cleaning activities in a ring frame machine
Scope	This unit/task covers the following: <ul style="list-style-type: none"> <li>carryout cleaning activities</li> </ul>
Performance Criteria (PC) w.r.t. the Scope	
Element	Performance Criteria
Carry out cleaning activities	<p>to be competent, you must be able to:</p> <p>PC1. ensure proper cleaning of drafting zone</p> <p>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.</p> <p>PC3. ensure proper rotation of clearer rollers</p> <p>PC4. deposit the yarn waste in the waste collection pocket provided to each tenter and finally deposit in the waste collection box</p> <p>PC5. check the pneumafil waste collection once in an hour, or as per predefined scheduled and remove the wastes if required</p> <p>PC6. remove the roller lapping manually or with tools provided, without damaging the cots</p> <p>PC7. collect the wastes in the waste collection chamber and deposit in the waste collection box</p> <p>PC8. ensure the wastes collected from different parts of machine are deposited in the respective dustbins</p> <p>PC9. Inform for removal of the worn out parts and ensure replacement with new parts in ring frame machine</p> <p>PC10. identify end brake for traveller fly.</p> <p>PC11. take traveller in traveller tray</p> <p>PC12. check correct traveller and confirm the count board</p> <p>PC13. replace traveller during count change and as per instructions of supervisor / maintenance incharge</p> <p>PC14. ensure proper setting of pneumafil pipe setting</p> <p>PC15. check cross roving</p> <p>PC16. check top arm lifting</p> <p>PC17. check OHTC air blowing</p> <p>PC18. check bottom apron, top apron, spacer</p> <p>PC19. ensure that only the correct size of traveler is used for replacement.</p> <p>PC20. check damaged bobbins and its reuse</p> <p>PC21. any quality affecting factors like missing spacers, spindle vibration, damaged aprons, defective cots etc. should be reported to supervisor</p>
Other tenting (Ring frame Tenter ) responsibilities	<p>PC22. verify the proper build of the roving bobbin</p> <p>PC23. Support the doffer while carrying out doffing activities</p> <p>PC24. record the production details in the production report</p> <p>PC25. report to the supervisor in case of emergency stoppage of machine</p>



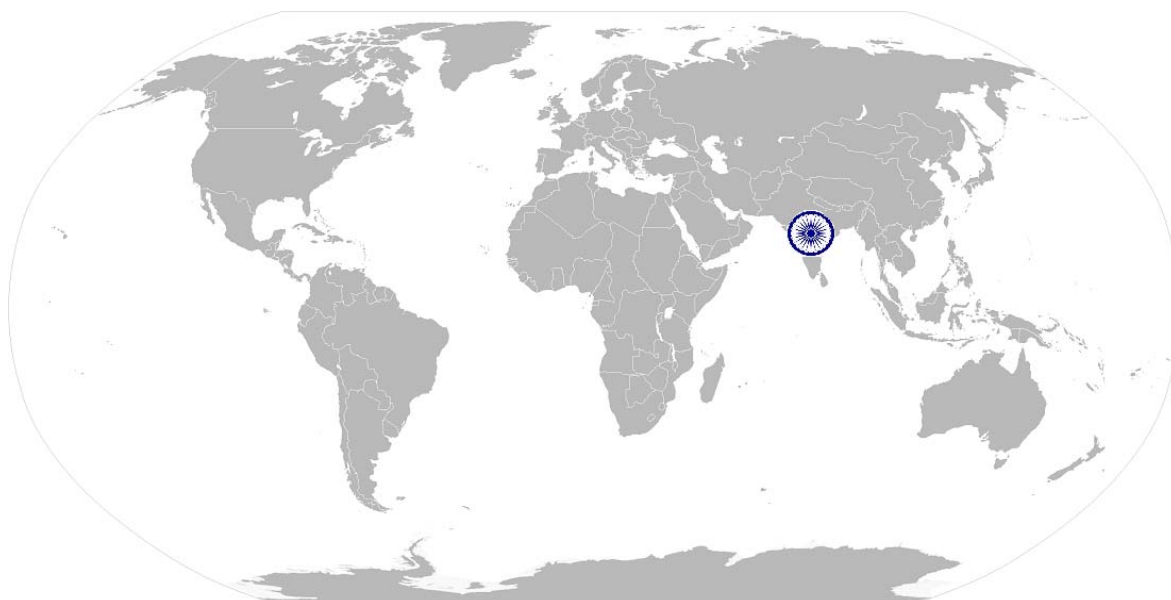
**TSC/ N0204**
**Carryout cleaning activities at Ring Frame**

	<p>PC26. report to the supervisor and maintenance incharge if the operator had replaced the worn out machine part with a new one.</p> <p>PC27. support the maintenance team while, machine is under maintenance</p> <p>PC28. ensuring all details related to production are provided to the next shift operator while relieving</p> <p>PC29. ensure count wise storage of wound bobbin without damaging the roving</p>
<b>knowledge and understanding (k)</b>	
<b>A. Organizational Context</b> (Knowledge of the company/ organization and its processes)	<p>You need to know and understand:</p> <p>KA1. standard operating procedures (SOP) and regulations in a spinning mill</p> <p>KA2. safe working practices to be adopted</p> <p>KA3. quality systems and other processes practiced in the spinning mill</p> <p>KA4. reporting to the supervisor or higher authority in case of emergency</p>
<b>B. Technical Knowledge</b>	<p>You need to know and understand:</p> <p>KB1. process flow and material flow in a spinning mill</p> <p>KB2. functions of different parts of a ring frame machine</p> <p>KB3. importance of yarn quality</p> <p>KB4. importance of cleaning</p> <p>KB5. schedule for cleaning</p> <p>KB6. types and functions of various cleaning tools and equipments</p> <p>KB7. types of waste collected from the ring frame machine</p> <p>KB8. guidelines for cleaning the various part of ring frame machine</p> <p>KB9. operational schedule for cleaning different parts of ring frame machine</p> <p>KB10. operational schedule for collecting wastes from waste collection chamber</p> <p>KB11. types of possible worn out parts in a ring frame machine</p> <p>KB12. types and importance of travelers</p> <p>KB13. procedure for mounting travelers</p> <p>KB14. types of end breaks and reason for end breaks</p> <p>KB15. procedure for removing roller lapping and clearer rollers</p> <p>KB16. the safety precautions to be followed in a ring frame department</p>
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	You need to know and understand how to:
	SA1. Write clear and short sentences
	<b>Reading Skills</b>
	SA2. comprehend written instructions
	<b>Oral Communication (Listening and Speaking skills)</b>
	<p>SA3. communicate with supervisor appropriately</p> <p>SA4. talk to others to convey information effectively</p> <p>You need to know and understand :</p> <p>SA5. procedure for operating the various cleaning tools and equipments</p> <p>SA6. procedure for cleaning the creeling area</p> <p>SA7. procedure for cleaning the drafting zone</p>

**TSC/ N0204**

**Carryout cleaning activities at Ring Frame**

- SA8. procedure for cleaning the delivery zone in ring frame machine
- SA9. procedure for cleaning pneumafil wastes
- SA10. procedure for collection of wastes from waste collection chamber
- SA11. procedure for cleaning the waste collection chamber
- SA12. procedure for cleaning the other parts of ring frame machine
- SA13. procedure for proper material handling of cleaning equipments
- SA14. procedure for removing the roller lapping
- SA15. procedure to identify and remove worn out parts in ring frame machine
- SA16. procedure to replace the worn out parts with a new machine part
- SA17. setting the traveller on ring, drafting zone, traveller mounting
- SA18. procedure for carrying out preventive maintenance activities
- SA19. procedure for oiling different parts of ring frame machine

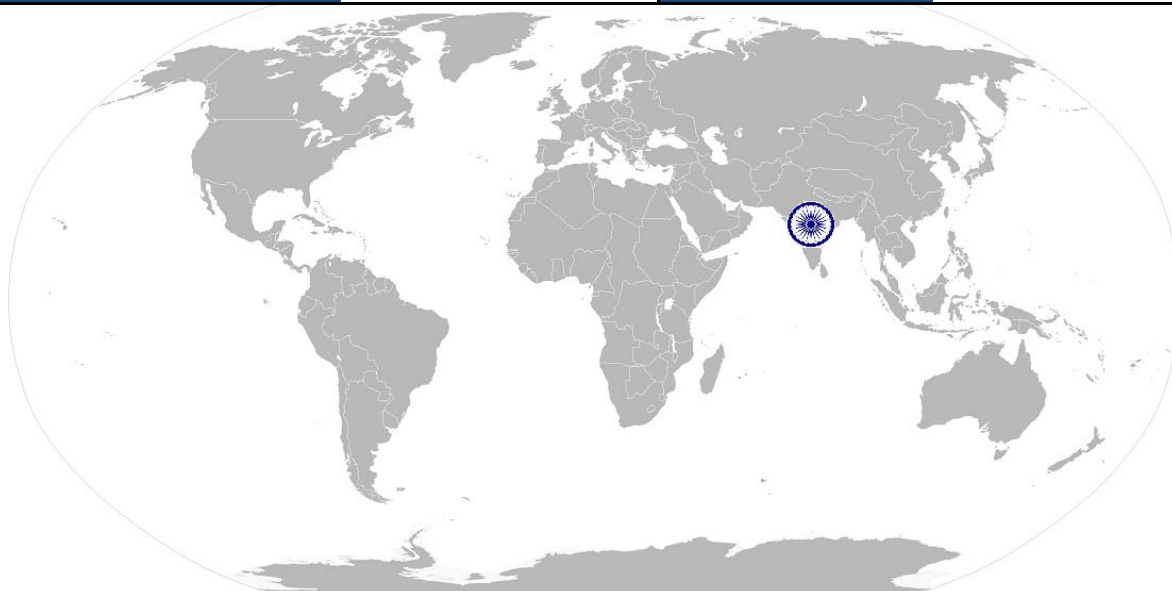


**TSC/ N0204**

**Carryout cleaning activities at Ring Frame**

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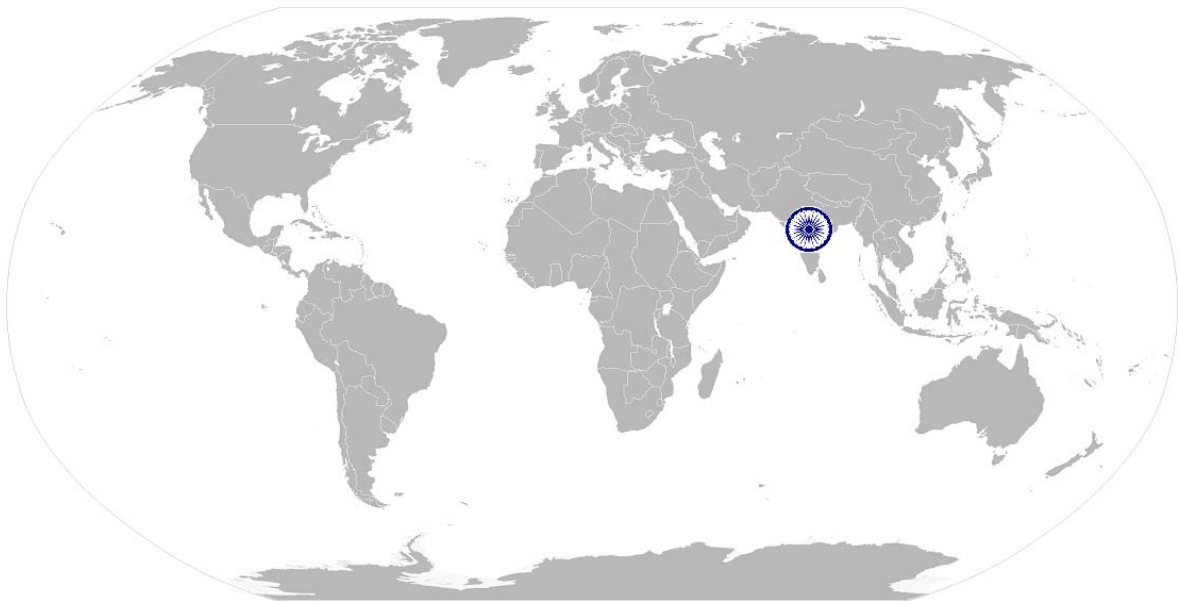
NOS Code	TSC/ N0204		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Spinning	Next review date	01/03/16



**TSC/ N9001**

**Maintain work area tools and machines**

# National Occupational Standard



## Overview

This unit is about maintaining work areas and activities to ensure tools and machines are maintained as per norms.

**TSC/ N9001**

**Maintain work area tools and machines**

National Occupational Standard

<b>Unit Code</b>	<b>TSC/ N9001</b>
<b>Unit Title (Task)</b>	<b>Maintain work area, tools and machines</b>
<b>Description</b>	This unit provides performance criteria, knowledge & understanding and skills & abilities required to organise/ maintain work areas and activities to ensure tools and machines are maintained as per norms
<b>Scope</b>	This unit/task covers the following: <ul style="list-style-type: none"> <li>▪ Maintain the work area, tools and machines</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Elements</b>	<b>Performance Criteria</b>
<b>Maintain the work area, tools and machines</b>	<p>To be competent, you must be able to:</p> <p>PC1. handle materials, machinery, equipment and tools with care and use them in the correct way</p> <p>PC2. use correct lifting and handling procedures</p> <p>PC3. use materials to minimize waste</p> <p>PC4. maintain a clean and hazard free working area</p> <p>PC5. maintain tools and equipment</p> <p>PC6. carry out running maintenance within agreed schedules</p> <p>PC7. carry out maintenance and/or cleaning within one's responsibility</p> <p>PC8. report unsafe equipment and other dangerous occurrences</p> <p>PC9. ensure that the correct machine guards are in place</p> <p>PC10. work in a comfortable position with the correct posture</p> <p>PC11. use cleaning equipment and methods appropriate for the work to be carried out</p> <p>PC12. dispose of waste safely in the designated location</p> <p>PC13. store cleaning equipment safely after use</p> <p>PC14. carry out cleaning according to schedules and limits of responsibility</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company/ organization and its processes)	<p>You need to know and understand:</p> <p>KA1. personal hygiene and duty of care</p> <p>KA2. safe working practices and organizational standard operating procedures</p> <p>KA3. limits of your own responsibility</p> <p>KA4. ways of resolving problems within the work area</p> <p>KA5. the production process and the specific work activities that relate to the whole process</p> <p>KA6. the importance of effective communication with supervisors</p> <p>KA7. the lines of communication, authority and reporting procedures</p> <p>KA8. the organisation's rules, codes and guidelines (including timekeeping)</p> <p>KA9. the company's quality standards</p> <p>KA10. the importance of complying with written instructions</p> <p>KA11. equipment operating procedures / supervisor's instructions</p>
<b>B. Technical Knowledge</b>	<p>You need to know and understand:</p> <p>KB1. work instructions and specifications and interpret them accurately</p> <p>KB2. relation between work role and the overall manufacturing process</p>

**TSC/ N9001**

**Maintain work area tools and machines**

	<p>KB3. hazards likely to be encountered when conducting routine maintenance</p> <p>KB4. the importance of taking action when problems are identified</p> <p>KB5. different ways of minimising waste</p> <p>KB6. the importance of running maintenance and regular cleaning</p> <p>KB7. effects of contamination on products i.e. machine oil, dirt, foreign materials</p> <p>KB8. common faults with equipment and the method to rectify</p> <p>KB9. maintenance procedures</p> <p>KB10. different types of cleaning equipment and substances and their use</p> <p>KB11. safe working practices for cleaning and the method of carrying them out</p>
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Reading Skills</b>
	<p>You need to know and understand how to:</p> <p>SA1. comprehend written instructions</p> <p>SA2. read any application sent by other colleagues</p>
	<b>Oral Communication (Listening and Speaking skills)</b>
	<p>You need to know and understand how to:</p> <p>SA3. Communicate effectively in local language</p> <p>SA4. communicate with supervisor appropriately</p> <p>SA5. talk to others to convey information effectively</p>
<b>B. Professional Skills</b>	<b>Problem Solving</b>
	<p>You need to know and understand how to:</p> <p>SB1. identify the real reason of problem faced</p> <p>SB2. apply problem-solving approaches in different situations</p> <p>SB3. refer anomalies to the supervisor</p> <p>SB4. seek clarification on problems from others</p>
	<b>Attention to Detail</b>
	<p>You need to know and understand how to:</p> <p>SB5. apply good attention to detail</p> <p>SB6. check your work is complete and free from errors</p> <p>SB7. make sure every kind of communication is error free</p> <p>You need to know and understand :</p> <p>SB8. communicate effectively</p> <p>SB9. apply leadership skills wherever required</p> <p>SB10. take initiative at the right place</p> <p>SB11. understand the requirement to be creative</p>



**TSC/ N9001**

**Maintain work area tools and machines**

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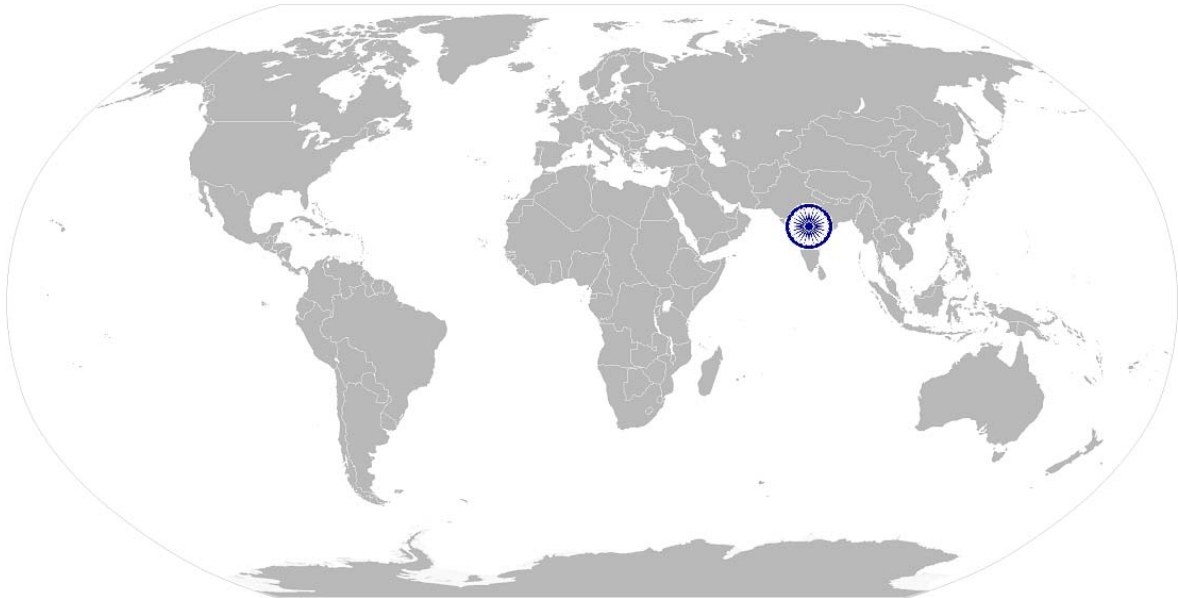
NOS Code	TSC/ N9001		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Spinning	Next review date	01/03/16



TSC/ N9002

Working in a team

# National Occupational Standard



## Overview

This unit is about working as part of a team in the textile industry.

**TSC/ N9002**

**Working in a team**

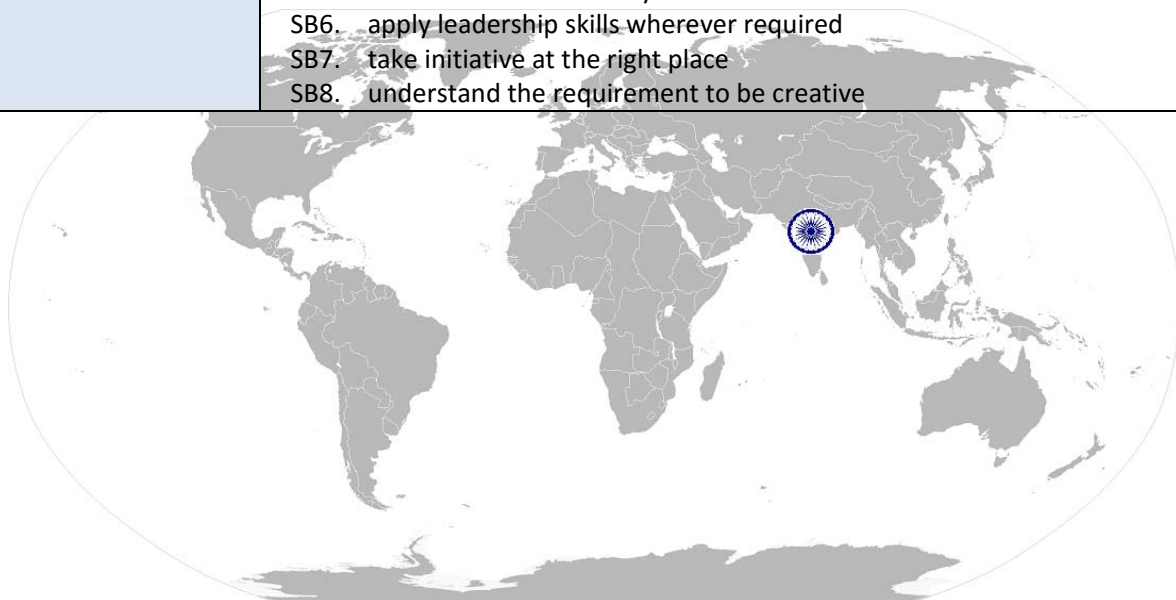
National Occupational Standard

Unit Code	TSC/ N9002
Unit Title (Task)	Working in a team
Description	This unit is about working as a team member in the textile industry
Scope	This unit/task covers the following: <ul style="list-style-type: none"> <li>commitment and trust</li> <li>communication</li> <li>adaptability</li> <li>creative freedom</li> </ul>
Performance Criteria (PC) w.r.t. the Scope	
Elements	Performance Criteria
<b>Commitment and trust</b>	To be competent, you must be able to: <ul style="list-style-type: none"> <li>PC1. be accountable to the own role in whole process</li> <li>PC2. perform all roles with full responsibility</li> <li>PC3. be effective and efficient at workplace</li> </ul>
<b>Communication</b>	<ul style="list-style-type: none"> <li>PC4. properly communicate about company policies</li> <li>PC5. report all problems faced during the process</li> <li>PC6. talk politely with other team members and colleagues</li> <li>PC7. submit daily report of own performance</li> </ul>
<b>Adaptability</b>	<ul style="list-style-type: none"> <li>PC8. adjust in different work situations</li> <li>PC9. give due importance to others' point of view</li> <li>PC10. avoid conflicting situations</li> </ul>
<b>Creative freedom</b>	<ul style="list-style-type: none"> <li>PC11. develop new ideas for work procedures</li> <li>PC12. improve upon the existing techniques to increase process efficiency</li> </ul>
Knowledge and Understanding (K)	
<b>A. Organizational Context</b>	You need to know and understand: <ul style="list-style-type: none"> <li>KA1. standard operating procedures (SOP) and regulations in a textile mill</li> <li>KA2. procedure followed to get the final output in the mill</li> <li>KA3. safe working practices to be adopted in textile mill</li> <li>KA4. reporting to the supervisor or higher authority about any grievances faced</li> </ul>
<b>B. Technical Knowledge</b>	<ul style="list-style-type: none"> <li>KB1. the importance of the previous and next step of the process</li> <li>KB2. process flow in a textile mill and the concerned workers</li> <li>KB3. material flow in a textile mill and the required person</li> <li>KB4. functions of different parts of the machine</li> <li>KB5. tools and equipments used</li> <li>KB6. guidelines for operating the machine</li> <li>KB7. safety procedures to be followed in the machine</li> </ul>
Skills (S)	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b> You need to know and understand how to: <ul style="list-style-type: none"> <li>SA1. write clear and short sentences</li> <li>SA2. write daily work report</li> <li>SA3. write grievance complaint application</li> </ul>
	<b>Reading Skills</b>

**TSC/ N9002**

**Working in a team**

	SA4. comprehend written instructions
	SA5. read any application sent by other colleagues
	<b>Oral Communication (Listening and Speaking skills)</b>
	SA6. communicate with supervisor appropriately
	SA7. talk to co-workers to convey information effectively
<b>B. Professional Skills</b>	<b>Problem Solving</b>
	You need to know and understand how to:
	SB1. identify the real reason of problem faced
	SB2. be able to find the most effective solution to the problems faced
	<b>Attention to Detail</b>
	SB3. apply good attention to detail
	SB4. ensure every kind of communication is error free
	You need to know and understand how to:
	SB5. communicate effectively
	SB6. apply leadership skills wherever required
	SB7. take initiative at the right place
	SB8. understand the requirement to be creative

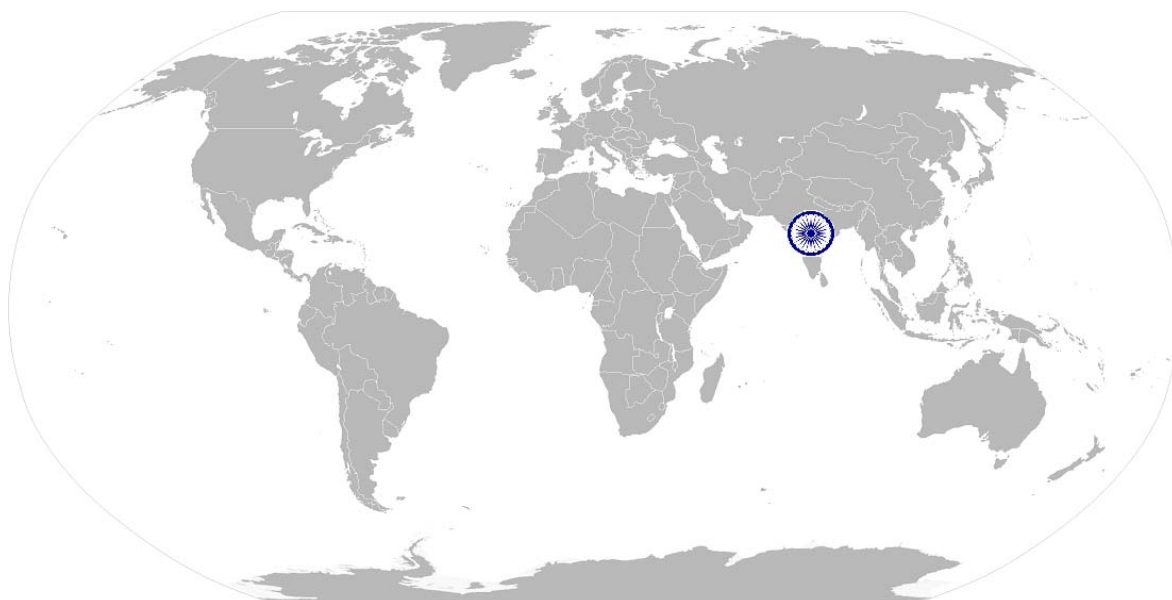


**TSC/ N9002**

**Working in a team**

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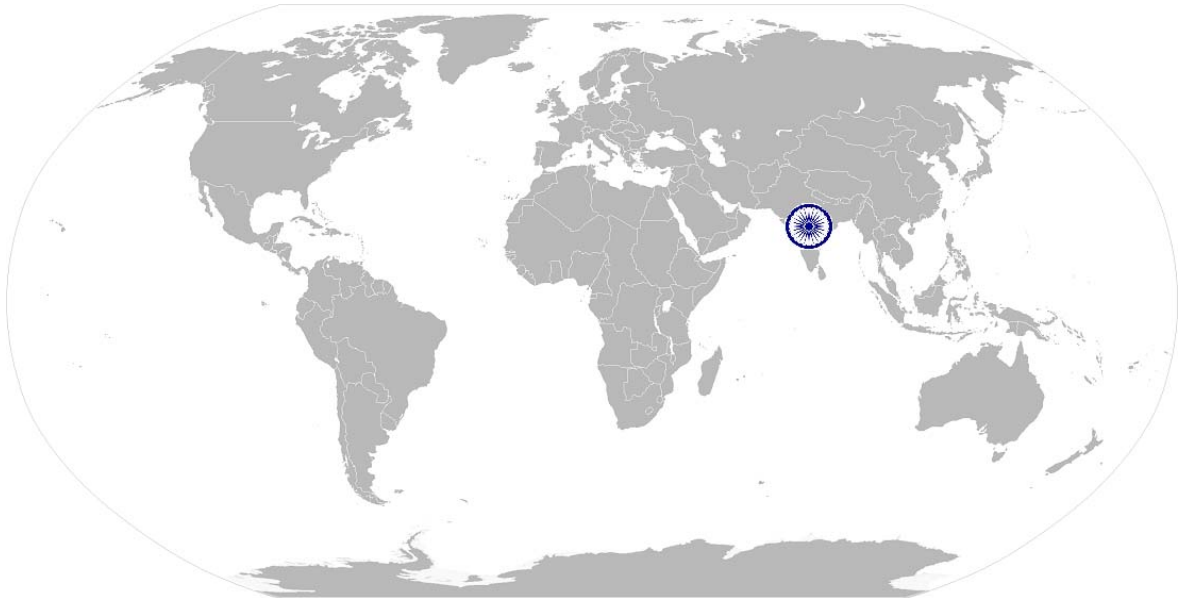
NOS Code	TSC/ N9002		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Spinning	Next review date	01/03/16



TSC/ N9003

Maintain health, safety and security at work place

# National Occupational Standard



## Overview

This unit is about maintaining health, safety, and security standards at workplace.



**TSC/ N9003**

**Maintain health, safety and security at work place**

Unit Code	TSC/ N9003
Unit Title (Task)	Maintain health, safety and security at work place
Description	This unit provides performance criteria, knowledge & understanding and skills & abilities required to comply with health, safety and security requirements at the workplace and covers procedures to prevent, control and minimize risk to self and others.
Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> <li>Comply with health, safety and security at work</li> <li>Recognizing the hazards</li> <li>Planning the safety techniques</li> <li>Implementing the programs</li> </ul>
Performance Criteria (PC) w.r.t. the Scope	
Elements	Performance Criteria
Comply with health, Safety and security requirements at work	<p>To be competent, operator must be able to:</p> <p>PC1. comply with health and safety related instructions applicable to the workplace</p> <p>PC2. use and maintain personal protective equipment such as “ear plug”, “ nose mask “, “ head cap” etc., as per protocol</p> <p>PC3. carry out own activities in line with approved guidelines and procedures</p> <p>PC4. maintain a healthy lifestyle and guard against dependency on intoxicants</p> <p>PC5. follow environment management system related procedures</p> <p>PC6. identify and correct (if possible) malfunctions in machinery and equipment</p> <p>PC7. report any service malfunctions that cannot be rectified</p> <p>PC8. store materials and equipment in line with organisational requirements</p> <p>PC9. safely handle and remove waste</p> <p>PC10. minimize health and safety risks to self and others due to own actions</p> <p>PC11. seek clarifications, from supervisors or other authorized personnel in case of perceived risks</p> <p>PC12. monitor the workplace and work processes for potential risks and threat</p> <p>PC13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned</p> <p>PC14. report hazards and potential risks/ threats to supervisors or other authorized personnel</p> <p>PC15. participate in mock drills/ evacuation procedures organized at the workplace</p> <p>PC16. undertake first aid, fire-fighting and emergency response training, if asked to do so</p> <p>PC17. take action based on instructions in the event of fire, emergencies or accidents</p> <p>PC18. follow organisation procedures for shutdown and evacuation when required</p>
Recognizing the hazards	<p>PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry</p> <p>PC20. recognise other possible security issues existing in the workplace</p>
Planning the safety techniques	PC21. recognise different measures to curb the hazards

## TSC/ N9003

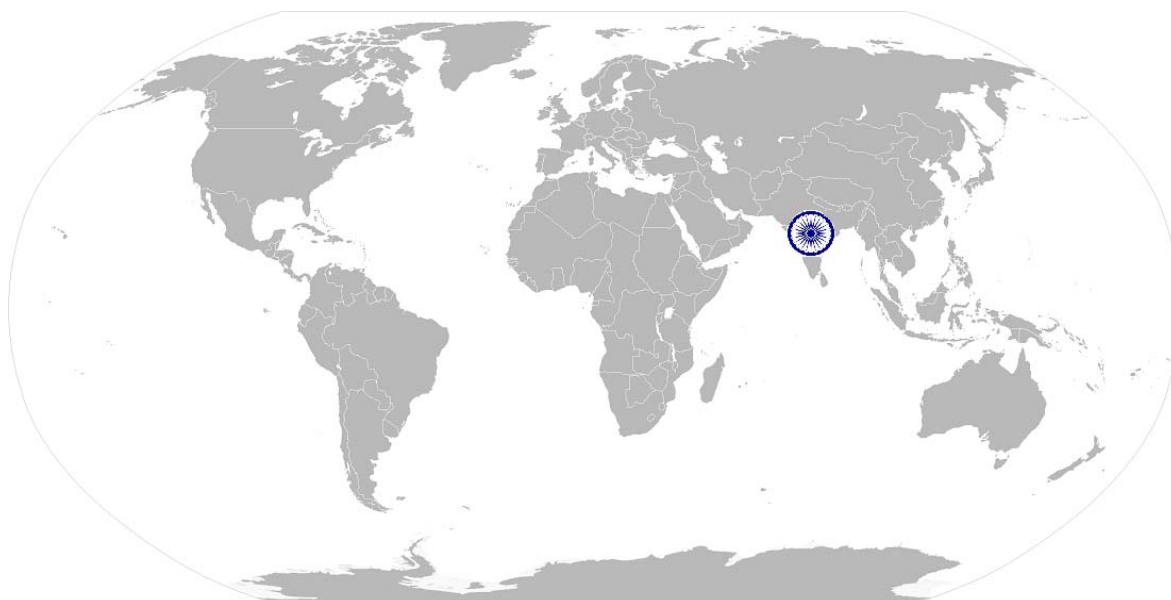
## Maintain health, safety and security at work place

<b>Implementing the programs</b>	PC22. communicate the safety plan to everyone PC23. attach disciplinary rules with the implementation
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company/ organization and its processes)	<p>You need to know and understand:</p> <p>KA1. standard operating procedures (SOP) and regulations in a textile mill</p> <p>KA2. safe working practices to be adopted in textile mill</p> <p>KA3. quality systems and other processes practiced in the textile mill</p> <p>KA4. health and safety related practices applicable at the workplace</p> <p>KA5. potential hazards, risks and threats based on nature of operations</p> <p>KA6. organizational procedures for safe handling of equipment and machine operations</p> <p>KA7. potential risks due to own actions and methods to minimize these</p> <p>KA8. environmental management system related procedures at the workplace</p> <p>KA9. layout of the plant and details of emergency exits, escape routes, emergency equipment and assembly points</p> <p>KA10. potential accidents and emergencies and response to these scenarios</p> <p>KA11. reporting protocol and documentation required</p> <p>KA12. details of personnel trained in first aid, fire-fighting and emergency response</p> <p>KA13. actions to take in the event of a mock drills/ evacuation procedures or actual accident, emergency or fire</p>
<b>B. Technical Knowledge</b>	<p>You need to know and understand:</p> <p>KB1. occupational health and safety risks and methods</p> <p>KB2. personal protective equipment and method of use</p> <p>KB3. identification, handling and storage of hazardous substances</p> <p>KB4. proper disposal system for waste and by-products</p> <p>KB5. signage related to health and safety and their meaning</p> <p>KB6. importance of sound health, hygiene and good habits</p> <p>KB7. ill-effects of alcohol, tobacco and drugs</p>
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	You need to know and understand how to:
	SA1. write clear and short sentences
	<b>Reading Skills</b>
	SA2. read and understand the company instructions SA3. read and understand work instructions SA4. read and understand the safety guidelines
	<b>Oral Communication (Listening and Speaking skills)</b>
	SA1. listen to others attentively SA2. respond to emergencies, accidents or fire at the workplace SA3. evacuate the premises and help others in need while doing so SA4. the value of physical fitness, personal hygiene and good habits SA5. talk with others politely
<b>B. Professional Skills</b>	<b>Decision Making</b>
	SB1. identify correct safety measure for particular hazard SB2. make required safety plans as and when required

**TSC/ N9003**

**Maintain health, safety and security at work place**

	SB3. raise alarm in case of emergency
	<b>Analytical Thinking</b>
	SB4. know the use of correct safety measure whenever required
	<b>Attention to Detail</b>
	SB5. be attentive to details
	SB6. be careful to avoid occurrence of hazards
	You need to know and understand :
	SB7. maintenance of neatness at work
	SB8. procedure for reporting unwanted behavior

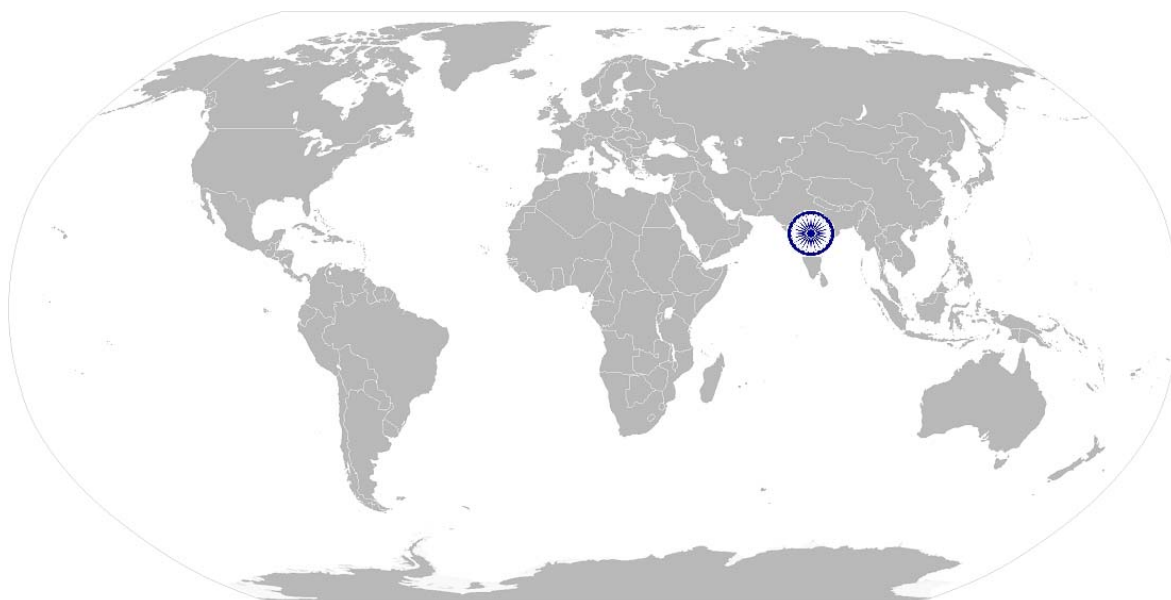


**TSC/ N9003**

**Maintain health, safety and security at work place**

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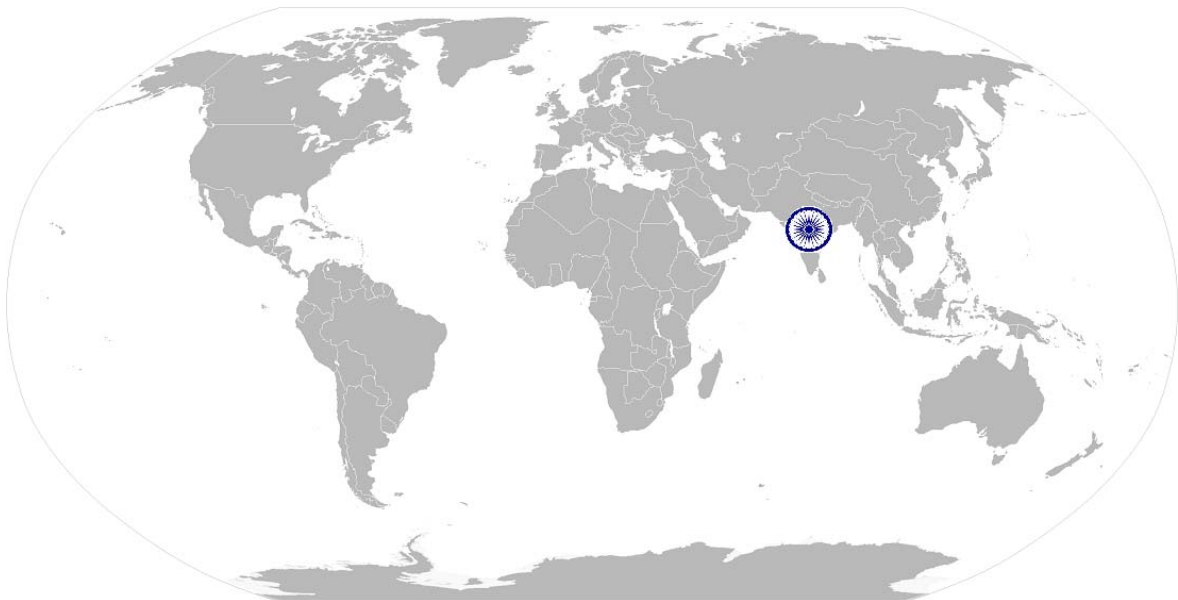
NOS Code	TSC/ N9003		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Spinning	Next review date	01/03/16



**TSC/N9004**

**Comply with industry and organizational requirements**

# National Occupational Standard



## Overview

This unit is about knowing, understanding, and complying with the requirements of the organization and the textile industry.

**TSC/N9004**

**Comply with industry and organizational requirements**

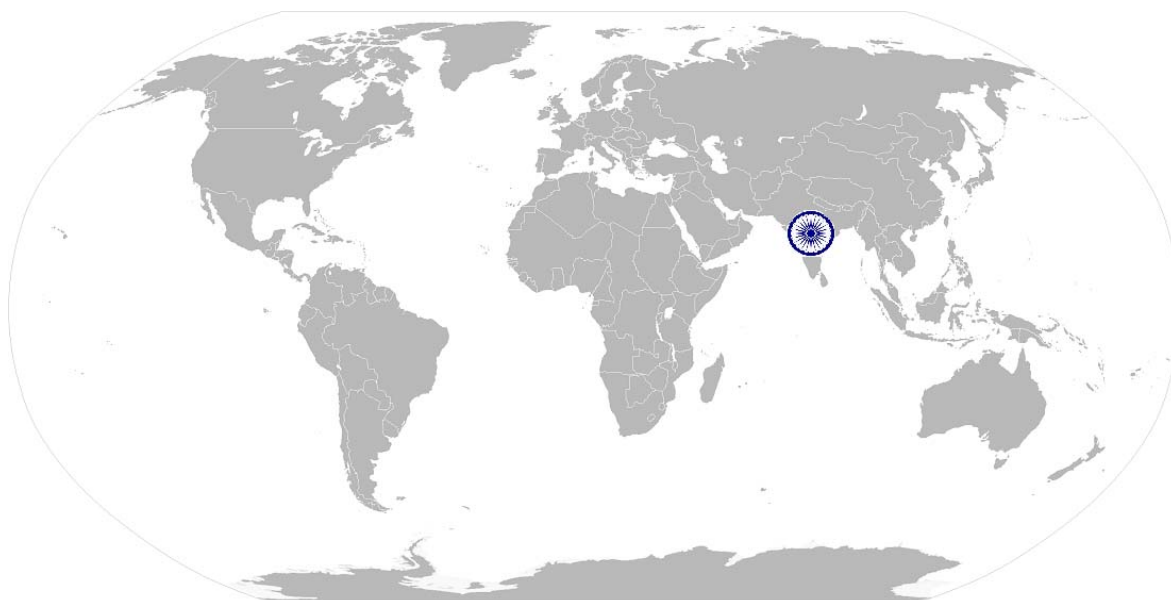
Unit Code	TSC/ N9004
Unit Title (Task)	Comply with industry and organizational requirements
Description	This unit is about knowing, understanding, and complying with the requirements of the organization and the textile industry
Scope	<b>This unit/task covers the following:</b> <ul style="list-style-type: none"> <li>self development</li> <li>team work</li> <li>organizational standards</li> <li>industry standards</li> </ul>
Performance Criteria (PC) w.r.t. the Scope	
Elements	Performance Criteria
Self- development	To be competent, you must be able to: PC1. perform own duties effectively PC2. take responsibility for own actions PC3. be accountable towards the job role and assigned duties PC4. take initiative and innovate the existing methods PC5. focus on self-learning and improvement
Team work	PC6. co-ordinate with all the team members and colleagues PC7. communicate politely PC8. avoid conflicts and miscommunication
Organisational standards	PC9. know the organisational standards PC10. implement them in your performance PC11. motivate others to follow them
Industry standards	PC12. know the industry standards PC13. align them with organisation standards
Knowledge and Understanding (K)	
<b>A. Organizational Context</b> (Knowledge of the company/ organization and its processes)	You need to know and understand: KA1. standard operating procedures (SOP) and regulations in a textile mill KA2. reporting to the supervisor or higher authority KA3. knowledge of organisational standards KA4. knowledge of industry standards
<b>B. Technical Knowledge</b>	You need to know and understand: KB1. process and material flow in a textile mill KB2. importance of complying with the standards KB3. guidelines for cleaning the various parts of machine
Skills (S)	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b> You need to know and understand how to: SA1. write clear and short sentences <b>Reading Skills</b>



**TSC/N9004**

**Comply with industry and organizational requirements**

	You need to know and understand how to:
	SA2. read the given instructions
	SA3. comprehend written instructions
	<b>Oral Communication (Listening and Speaking skills)</b>
	SA4. talk effectively with others
	SA5. put forward your point
	SA6. listen to others
	you need to know and understand :
	SA7. Organizational requirements
	SA8. your responsibilities at the workplace
	SA9. procedure to comply with the industry standards

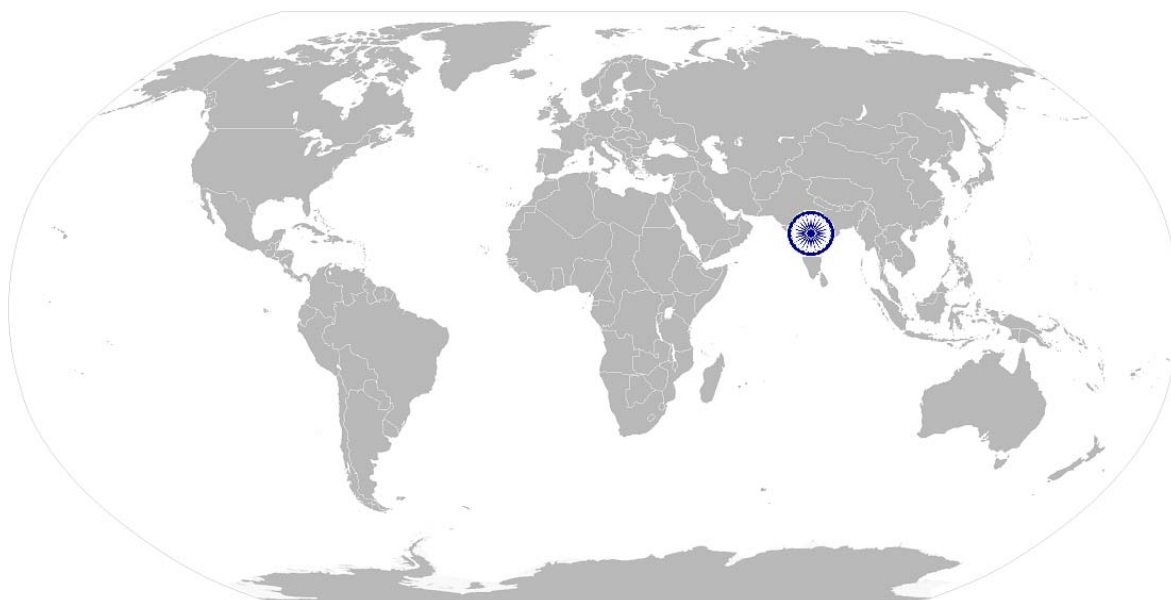


**TSC/N9004**

**Comply with industry and organizational requirements**

**NOS Version Control**

NOS Code	TSC/N 9004		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Spinning	Next review date	01/03/16



### Assessment criteria

<b>Job Role: Ring Frame Tenter</b> <b>Qualification Pack: Ring Frame Tenter (TSC/Q 0201)</b> <b>Sector Skill Council: Textile Sector Skill Council</b>						
<b>Guidelines for assessment :-</b> <ol style="list-style-type: none"> <li>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 &amp; skill practical for each PC.</li> <li>The assessment for the theory part will be based on knowledge bank of question created by the SSC.</li> <li>Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre (as per assessment criteria below).</li> <li>To pass the qualification pack, every trainee should score a minimum of 80%.</li> </ol>						
National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
1. TSC/N0201 (Taking charge of shift and handing over shift to Ring Frame Tenter)	PC1. come atleast 10 - 15 minutes earlier to the work spot	100	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 , production , spare, 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		2	1	1	0

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travellers				
PC9. check the roving passage and yarn formation	3	1	1	1
PC10. check for the run outs & availability of the roving bobbins	3	1	1	1
PC11. ensure that all spindles are running properly, if not should be enquired for and the reason for idle spindle reported 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 that all allocated spindles are running with uniform length of yarn 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 to the superior	2	1	1	0
PC16. check the cleanliness of the machines & other work areas	2	1	1	0
PC17. check for any spare/raw material/ tool / yarn / any other material 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 as that of the previous shift.	3	1	1	1
PC19. ensure that there is 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	3	1	1	1

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	replacement				
	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. take over the shift from the outgoing 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 in case his/ her counterpart doesn't report for the incoming shift	4	1	1	2
	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>Weigh</b>		33%	36%	31%

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		Weightage %				
<b>2. TSC/N0202 (Creeling the roving bobbin at Ring Frame)</b>	PC1. bring the roving bobbin from storage area 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 that 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 that 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
	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 tender and then put in the 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 get damaged		5	2	3	0



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	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>		35%	48%	17%
<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 for yarn break, traveller fly, 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. verify the quality of piecing done in the yarn		6	2	2	2
	PC8. attend to the end breakage as and when they occur		4	1	2	1
	PC9. take yarn from cop to feed ABC Ring and insert traveller, lappet hook cut the yarn (10mm ) and to start piecing		6	2	4	0
	PC10. piece the yarn between false twister and drafting zone by following standard piecing techniques		6	2	4	0
	PC11. ensure proper seating of empties in the spindle after yarn piecing		5	1	3	1
	PC12. ensure proper traveller running		5	1	3	1
	PC13. ensure minimum time is taken for piecing the yarn		4	2	1	1
	PC14. ensure proper material handling of ring cops		5	2	2	1
	PC15. ensure the yarn should be pieced		5	2	2	1

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	with minimum overlapping						
	PC16. put the roving ends and roller bond waste in the bags or pockets of coat / apron while attending the end breakages.		5	2	2	1	
	PC17. ensure proper material handling of yarn and cops		5	2	2	1	
	PC18. ensure that the quality of piecing is as per standard		4	2	1	1	
	PC19. ensure the tension of the pieced yarn is proper		5	2	2	1	
	PC20. ensure that the cop is perfectly fit in the spindle		4	1	2	1	
	PC21. verify proper material passage from drafting zone till the yarn wound in cop		3	1	1	1	
	PC22. remove the pneumafil waste and yarn waste and deposit in the respective waste collection bags		1	0	1	0	
	PC23. ensure proper functioning of the machine		1	0	0	1	
	<b>Total</b>		<b>100</b>	<b>31</b>	<b>48</b>	<b>21</b>	
	<b>Weigh tage %</b>			31%	48%	21%	
<b>4 . TSC/N0204 (Carryout cleaning activities at Ring Frame)</b>	PC1. ensure proper cleaning of drafting zone	<b>200</b>	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.		10	2	6	2	
	PC3. ensure proper rotation of clearer rollers		8	2	4	2	
	PC4. deposit the yarn waste in the waste collection pocket provided to each tenter and finally deposit 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	

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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 deposit 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 incharge	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 traveler is used for replacement.	8	2	2	4
PC20. check damaged bobbins and its reuse	6	2	2	2
PC21. any quality affecting factors like missing spacers, spindle vibration, damaged aprons, defective cots etc. should be reported to supervisor	6	2	2	2
PC22. verify the proper build of the roving bobbin	10	2	2	6
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

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	PC26. report to the supervisor and maintenance incharge if the operator had replaced 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 to 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>		28%	46.5%	25.5%
<b>5.TSC/N9001 (Maintaining 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
	PC12. dispose of waste safely in the designated location		4	1	2	1
	PC13. store cleaning equipment safely after use		3	1	1	1

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	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>		30%	42%	28%
<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>		32%	38%	30%
<b>7.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		4	2	1	1

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	procedures				
	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



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	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
	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>		43%	34%	23%
<b>8.TSC/N9004 (Comply with industry and organizational requirements)</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>		36%	38%	26%
	<b>Grand Total</b>		<b>750</b>			