

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 – Combing Operator

SECTOR: TEXTILE

SUB-SECTOR: SPINNING

OCCUPATION: SPINNING PREPARATORY

REFERENCE ID: TSC/Q 0104

ALIGNED TO: NCO-2004 / 7431.46

Brief Job Description: A combing operator is responsible to carry out tenting activities in the comber machine. He should be able to operate the comber, ensure proper feeding of laps, piece the comber lap and sliver on breakage, doff the sliver cans and transport the delivery cans to the storage area

Personal Attributes: This job requires the individual to have thorough knowledge in process flow and material flow in a textile mill for yarn production and should be able to know the important functions and operations of all the machines in blowroom department

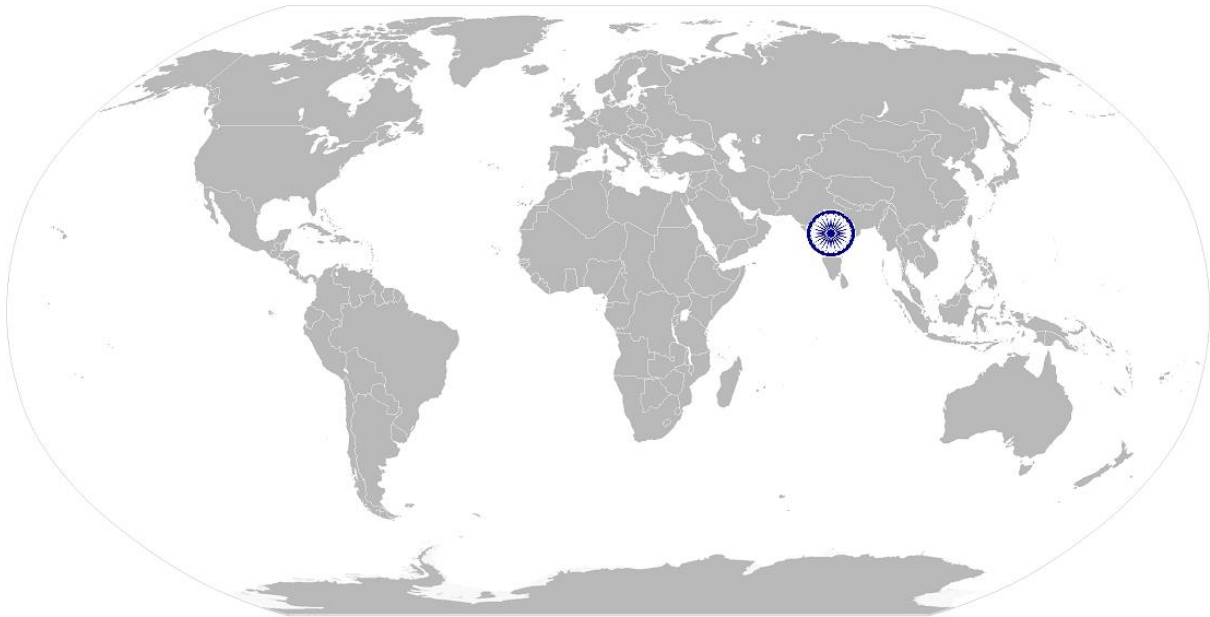
Job Details	Qualifications Pack Code	TSC/Q0104		
	Job Role	Combing Operator		
	Credits (NSQF)	TBD	Version number	1.0
	Sector	Textile	Drafted on	15/12/14
	Sub-sector	Spinning	Last reviewed on	25/02/15
	Occupation	Spinning Preparatory	Next review date	01/03/16
	Job Role	Combing Operator		
	Role Description	A combing operator is responsible to carry out tenting activities in the combing machine.		
	NSQF level	4		
	Minimum Educational Qualifications	5 th 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)	<p>Compulsory:</p> <ol style="list-style-type: none"> TSC/ N0110 Taking charge of shift and handing over shift to operator TSC/ N0111 Operating the combing machine TSC/ N0112 Carryout creeling, piecing and doffing activities TSC/ N9001 Maintain work area, tools and machines TSC/ N9002 Working in a team TSC/ N9003 Maintain health, safety and security at workplace TSC/ N9004 Comply with industry and organizational requirement <p>Optional: N/A</p>		
	Performance Criteria	As described in the relevant OS units		

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

Acronyms

National Occupational Standard



Overview

This unit is about taking charge of shift from previous shift operator and relieving the responsibilities to the next shift operator

TSC/ N 0110

Taking charge of shift and handing over shift to operator

National Occupational Standard	Unit Code	TSC/ N0110
	Unit Title (Task)	Taking charge of shift and handing over shift to operator
	Description	This unit is about taking charge of shift from previous shift operator and relieving the responsibilities to the next shift operator
	Scope	This unit/task covers the following: <ul style="list-style-type: none"> ▪ Taking charge of shift ▪ Handing over the shift to next shift operator
	Elements	Performance Criteria
	Taking charge of shift	<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 or spare or safety or any other specific instruction etc.</p> <p>PC4. understand the hank produced, colour coding, followed in the combing department for his allocated number of machines</p> <p>PC5. ensure the technical details are mentioned in the display board in the comber</p> <p>PC6. check for the availability of the comber laps and spools in storage area</p> <p>PC7. ensure all the machines are running properly, machines which are not running and problems if any should be clarified with the supervisor and operator</p> <p>PC8. ensure proper functioning of combing machine parts</p> <p>PC9. check the cleanliness of the machines & other work areas</p> <p>PC10. check whether any spare/raw material/ tool / yarn / any other material are thrown under the machines or in the other work areas.</p> <p>PC11. should question the previous shift operator for any deviation in the above and should bring the same to the knowledge of his/ her shift superior as well that of the previous shift as well.</p> <p>PC12. ensure the wastes collection boxes are empty while taking charge of shift</p> <p>PC13. ensure the work spot is clean</p> <p>PC14. ensure carding can randomization</p>
Handing over the shift to next shift operator	<p>PC15. hand over the shift to the incoming shift operator in a proper manner</p> <p>PC16. ensure in providing the details regarding hank produced, colour coding followed in the combing department for his allocated number of machines</p> <p>PC17. provide all relevant information regarding the hank produced, damaged machine parts if any</p> <p>PC18. get clearance from the incoming counterpart before leaving the work spot</p> <p>PC19. report to his/ her shift superiors as well as that of the incoming shift operator in case his/ her counterpart doesn't report for the incoming shift</p> <p>PC20. ensure the shift has to be properly handed over to the incoming shift operator</p> <p>PC21. report to his/ her shift superior about the quality / production / safety issues/</p>	

TSC/ N 0110

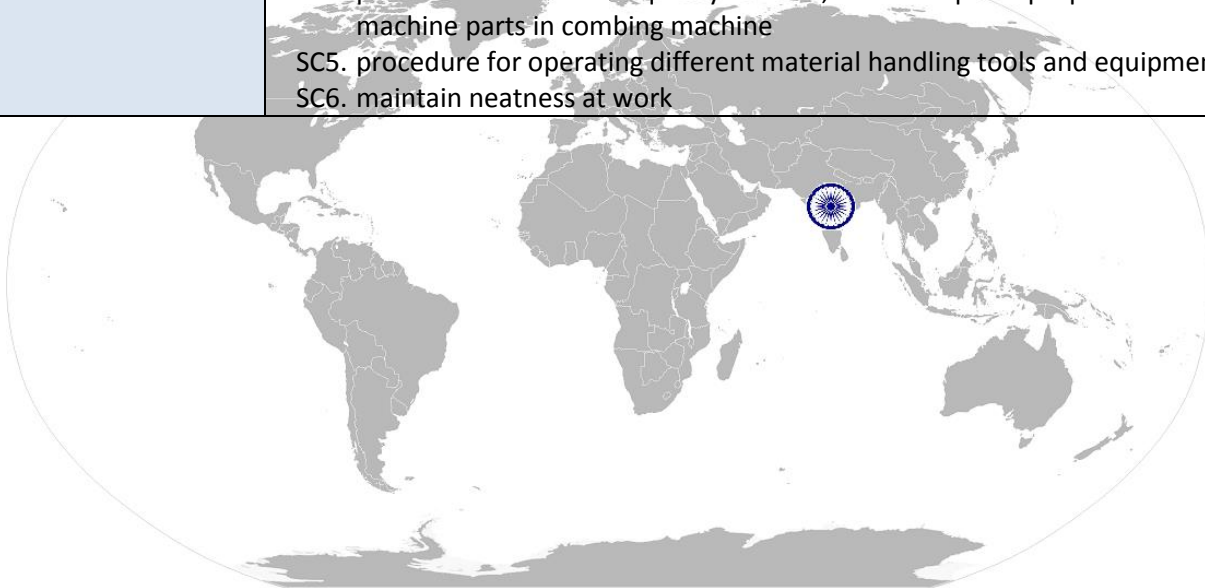
Taking charge of shift and handing over shift to operator

	<p>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>PC22. collect the wastes from waste collection bags, weigh them and transport to storage area</p> <p>PC23. Ensure the work spot is clean</p>
Knowledge and Understanding (K)	
A. Organizational Context (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. reporting to the supervisor or higher authority in case of emergency</p> <p>KA5. color coding adopted for different hanks in the textile mill</p>
B. Technical Knowledge	<p>You need to know and understand:</p> <p>KB1. understand the importance of</p> <ul style="list-style-type: none"> • types of fibres • types of sliver • sliver hank, • sliver defects • comber lap defects <p>KB2. process flow in a textile mill</p> <p>KB3. material flow in a textile mill</p> <p>KB4. importance of combing and combing machine</p> <p>KB5. functions of different parts of comber</p> <p>KB6. importance of colour coding followed for different hanks</p> <p>KB7. guidelines for operating the comber machine</p> <p>KB8. understanding the functions of different signal lamps</p> <p>KB9. guidelines for taking charge of shift from previous shift operator</p> <p>KB10. guidelines for handing over the shift to the next shift operator</p> <p>KB11. importance of material handling and types of material handling equipments used equipments</p> <p>KB12. functions and methodology for operating different material handling tools</p> <p>KB13. knowledge of waste collection system & equipments used</p> <p>KB14. importance of cleanliness at workplace</p> <p>KB15. safety procedures to be followed</p>
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	<p>You need to know and understand how to:</p> <p>SA1. write clear and short sentences</p>
	Reading Skills
	<p>You need to know and understand how to:</p> <p>SA2. comprehend written instructions</p>
	Oral Communication (Listening and Speaking skills)
	<p>You need to know and understand how to:</p> <p>SA3. communicate with supervisor appropriately</p> <p>SA4. talk to others to convey information effectively</p>

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Taking charge of shift and handing over shift to operator

B. Professional Skills	Problem Solving
	SB1. You need to know and understand how to: SB2. apply problem-solving approaches in different situations SB3. refer anomalies to the supervisor SB4. seek clarification on problems from others
	Attention to Detail
	You need to know and understand how to: SB5. apply good attention to detail SB6. check your work is complete and free from errors
C. Technical Skills	You need to know and understand how to: SC1. procedure to patrol around the combing machine SC2. procedure to operate the different mechanisms in comber SC3. procedure for patrolling around the combing department and identifying worn out or damaged machine parts SC4. procedure to check the quality of sliver, comber lap and proper functioning of machine parts in combing machine SC5. procedure for operating different material handling tools and equipments SC6. maintain neatness at work

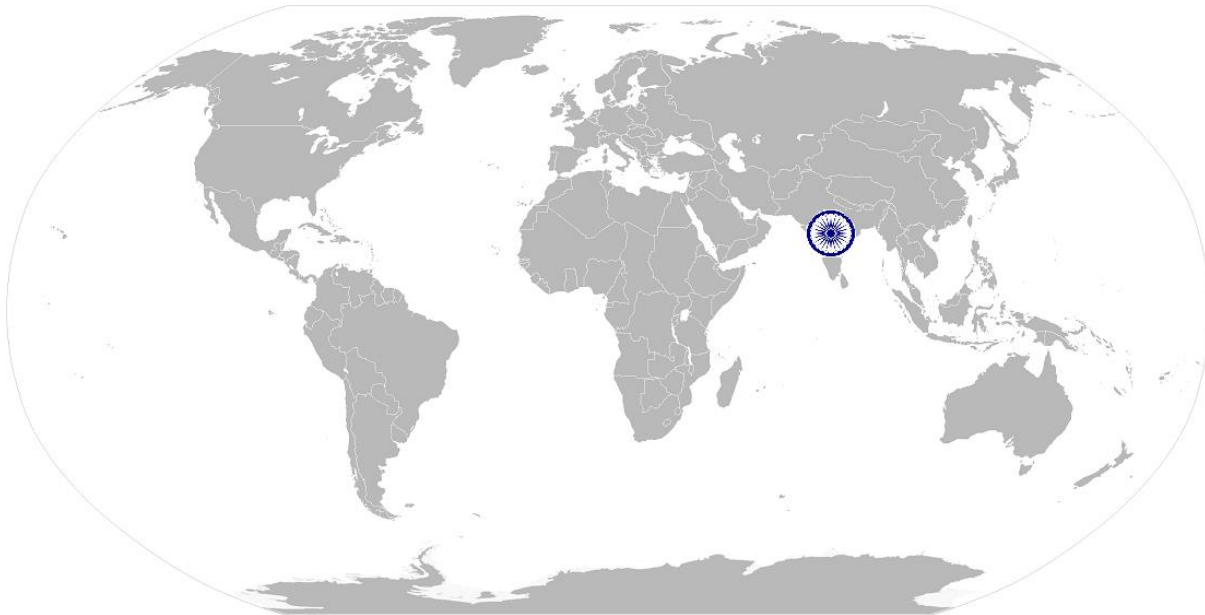


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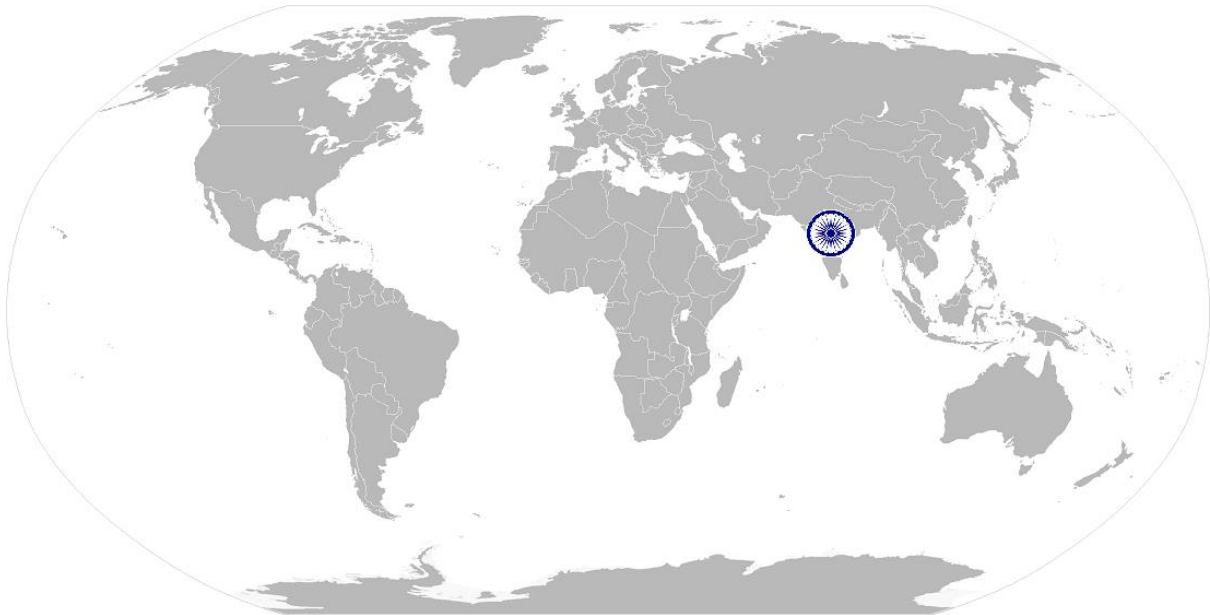
Taking charge of shift and handing over shift to operator

NOS Version Control

NOS Code	TSC/ N0110		
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 Preparatory	Next review date	01/03/16



National Occupational Standard



Overview

This unit is about carrying out procedure for operating the comber machine

Operating the Combing Machine

Unit Code	TSC/ N0111
Unit Title (Task)	Operating the combing machine
Description	This unit is about carrying out procedure for operating the combing machine and carrying out cleaning and maintenance activities in comber
Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> ▪ Operating the machine ▪ carryout cleaning activities ▪ carryout maintenance activities ▪ material handling & safety at workplace ▪ other tenting responsibilities
Elements	Performance Criteria
Operating the machine	<p>To be competent you must be able to:</p> <p>PC1. make sure that necessary changes and tests are carried out and follow the instructions of the superiors before running the machine</p> <p>PC2. operate the control switches for starting and stopping the machine</p> <p>PC3. follow the different signal lamps in machine</p> <p>PC4. identify the mixing by looking at the hank board affixed on the machine</p> <p>PC5. sliver display monitor should be always on while the machine is working</p> <p>PC6. ensure proper functioning of comber by verifying in the display panel</p> <p>PC7. check whether the comber lap is properly fed</p> <p>PC8. replenish the laps with minimum waste</p> <p>PC9. remove the roller lapping without damaging cots</p> <p>PC10. draw the cotton web to the delivery zone</p> <p>PC11. piece the sliver during breakage</p> <p>PC12. doff the full comber sliver can</p> <p>PC13. view the display panel and identify the reasons for machine stoppages if any</p> <p>PC14. ensure the machine is running in the set speed by viewing the display panel</p> <p>PC15. ensure the working area is clean</p>
Carryout cleaning activities	<p>PC16. ensure surface of the comber lap fed is free from defects / damages</p> <p>PC17. ensure the sliver produced is free from surface damages</p> <p>PC18. clean the can castors before putting the cans to the comber</p> <p>PC19. ensure the sliver cans are clean before feeding in the doffing zone</p> <p>PC20. to segregate the wastes collected and deposit at the respective waste bins</p> <p>PC21. remove the defect in slivers</p> <p>PC22. support the mechanic while carryout cleaning maintenance activities</p> <p>PC23. use proper tools for cleaning</p> <p>PC24. ensure the comber table is clean and clean at regular intervals</p> <p>PC25. carryout cleaning activities in creeling zone, drafting zone, and delivery zone</p> <p>PC26. ensure that the nipper, half lap, top comb, drafting zone, table, calendaring zone, trumpet, coilers etc. are clean</p> <p>PC27. collect the noils in the comber machine at the specified intervals</p> <p>PC28. clean the comber once a shift and remove cotton sticking if any</p> <p>PC29. clean the wastes around the machine</p>

TSC/ N 0111

Operating the Combing Machine

	<p>PC30. deposit the lap / sliver waste mixing wise in the containers provided near the machine</p> <p>PC31. ensure safety while carrying out cleaning</p> <p>PC32. ensuring the wastes collected are deposited in the respective hank wise waste box</p> <p>PC33. ensure combing area is clean</p>
<p>Carryout maintenance activities</p>	<p>PC34. support the fitter for carrying out maintenance activities</p> <p>PC35. ensure the draft variation on cv% is within the limits and if it's abnormal report it to superiors.</p> <p>PC36. ensure the noils are removed as per the set limits, if abnormal should be reported to the superiors</p> <p>PC37. attend roller lapping, chocking of lap, sliver and ensure minimum waste</p> <p>PC38. carry out wheel changes/ hank changes as per supervisor's instructions</p> <p>PC39. ensure roller lapping doesn't happen frequently</p> <p>PC40. ensure the rollers are dry enough to avoid lapping</p> <p>PC41. ensure the top comb is clean</p> <p>PC42. ensure the surface of the comber table is smooth</p> <p>PC43. release the pressure on top rollers of the drafting zone when the machine is to be stopped for longer duration</p> <p>PC44. ensure the noil sortiment position in panel board is as per the direction of supervisors</p> <p>PC45. inform superiors immediately if the sliver monitors alarm rings in the machine.</p> <p>PC46. inform the supervisor and maintenance in charge in case of a jam</p> <p>PC47. report to the superiors and support him for carrying out maintenance activities ,in case of any break-downs,</p> <p>PC48. support the fitter during minor breakdown</p>
<p>Material handling and safety at workplace</p>	<p>PC49. ensure proper material handling of spool, comber lap, sliver, sliver can and empty can</p> <p>PC50. ensure using proper material handling of tools and equipments</p> <p>PC51. ensure safety while operating the comber</p> <p>PC52. use the safety gadgets like caps, masks and shoes and verifying the safety stop motions</p>
<p>Other tenting responsibilities</p>	<p>PC53. ensure the sliver produced is free from outside damages</p> <p>PC54. Inform superiors immediately, if any break down or fault in the machine is noticed</p> <p>PC55. ensure the proper functioning of signal lamps</p> <p>PC56. ensure that machine is working properly, if any deviations inform superiors immediately</p> <p>PC57. collect the reusable wastes and weigh them at shift end and place them in specified area</p> <p>PC58. provide all relevant information's of the current working process to the next shift operator before relieving.</p>
<p>Knowledge and Understanding (K)</p>	
<p>A. Organizational</p>	<p>You need to know and understand:</p>

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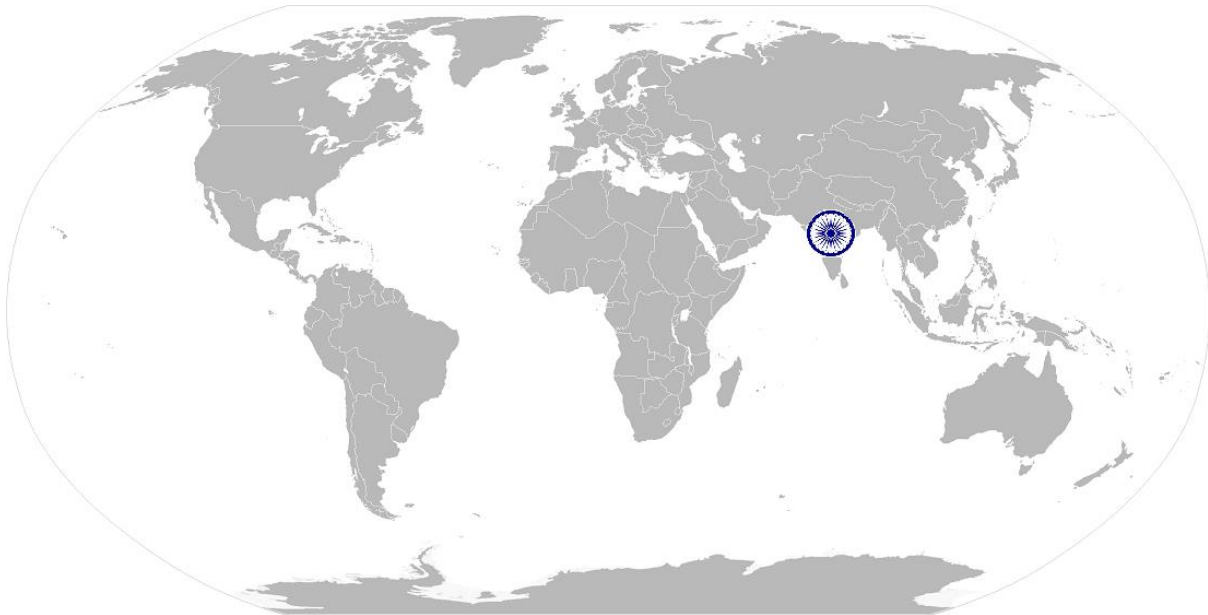
Operating the Combing Machine

<p>Context (Knowledge of the company/ organization and its processes)</p>	<p>KA1. standard operating procedures (SOP) and regulations in a textile mill KA2. safe working practices to be adopted in textile mill KA3. quality systems and other processes practiced in the textile mill KA4. reporting to the supervisor or higher authority in case of emergency KA5. color coding adopted for different hanks in the textile mill</p>
<p>B. Technical Knowledge</p>	<p>You need to know and understand:</p> <p>KB1. process and material flow in a textile mill KB2. understanding the importance of fibres, types of yarn, , types of sliver, sliver hank, importance of sliver and roving quality KB3. importance of combing process KB4. importance of combing and sliver formation KB5. functions of various parts in a comber machine KB6. importance & functions of different signal lamps KB7. different control buttons used in comber KB8. knowledge of different functions in display panel and procedure to operate the comber machine KB9. types of wastes and procedure for collecting and segregating wastes KB10. guidelines for operating the material handling tools and equipments KB11. importance of cleanliness at work place KB12. guidelines for carrying out cleaning activities KB13. guidelines for carrying out maintenance activities KB14. importance of color coding KB15. importance of material handling KB16. types of material handling equipments used KB17. functions and methodology for operating different material handling equipments KB18. importance of safety at workplace KB19. safety gadgets used in a textile mill</p>
<p>Skills (S)</p>	
<p>A. Core Skills/ Generic Skills</p>	<p>Writing Skills You need to know and understand how to: SA1. write clear and short sentences</p> <p>Reading Skills You need to know and understand how to: SA2. comprehend written instructions</p> <p>Oral Communication (Listening and Speaking skills) You need to know and understand how to: SA3. Communicate with supervisor appropriately SA4. talk to others to convey information effectively</p>
<p>B. Professional Skills</p>	<p>Problem Solving 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</p> <p>Attention to Detail</p>

TSC/ N 0111

Operating the Combing Machine

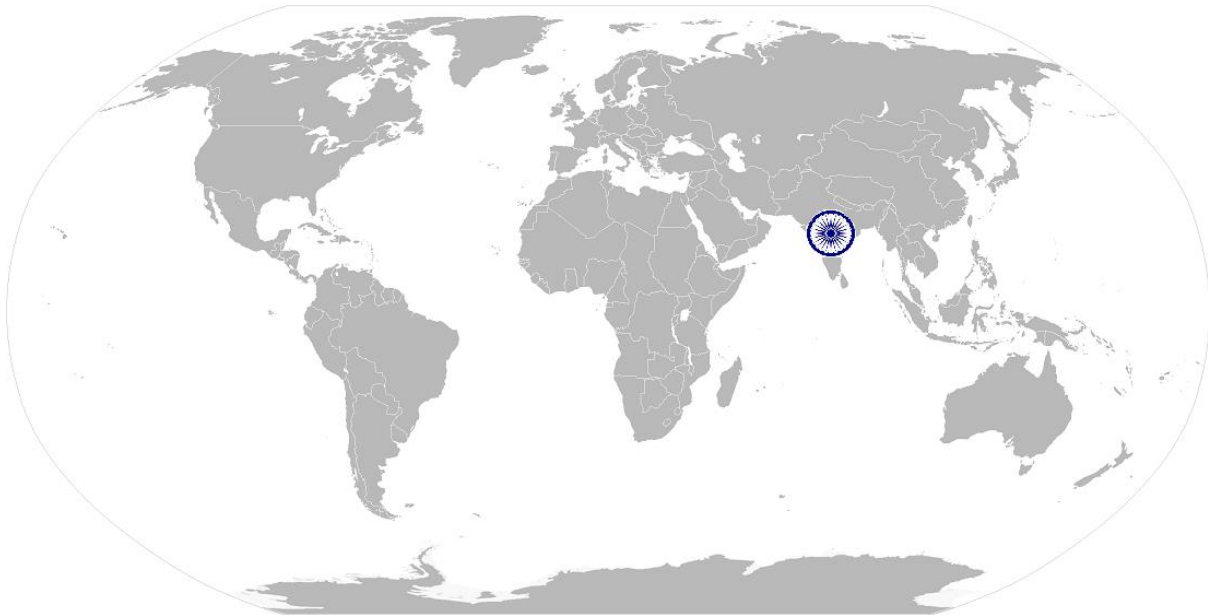
	You need to know and understand how to: SB4. apply good attention to detail SB5. check your work is complete and free from errors
C. Technical Skills	You need to know and understand : SC1. Procedure to identify and remove the defects in comber lap and sliver SC2. Procedure for cleaning the wastes and waste segregation SC3. Procedure to remove roller lappings SC4. Procedure to carryout cleaning activities SC5. Procedure for cleaning mechanisms of the creel zone, drafting zone and delivery zone SC6. Procedure to carryout basic maintenance activities SC7. Maintain cleanliness at work place



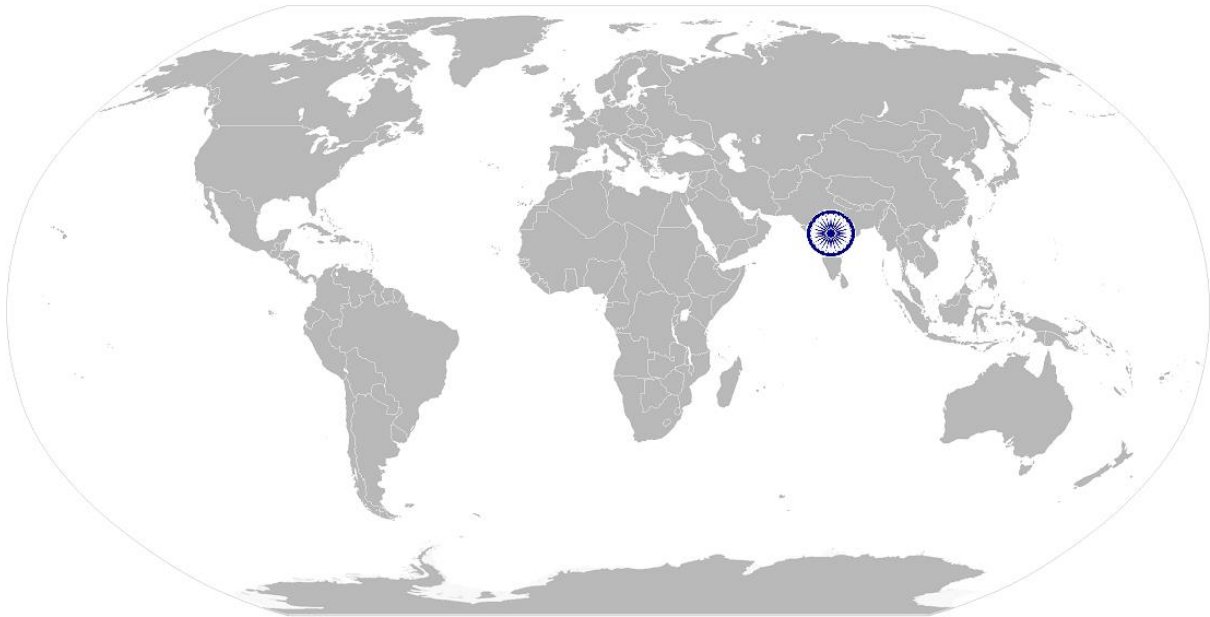
Operating the Combing Machine

NOS Version Control

NOS Code	TSC/ N0111		
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 Preparatory	Next review date	01/03/16



National Occupational Standard



Overview

This unit is about carrying out creeling, piecing and doffing activities in combing machine.

TSC /N 0112

Carryout creeling, piecing and doffing activities

National Occupational Standard	Unit Code	TSC/ N1203
	Unit Title (Task)	Carryout creeling, piecing and doffing activities
	Description	This unit is about carrying out tenting, cleaning and maintenance activities in comber machine
	Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> ▪ Creeling the sliver ▪ Attending the machine on stoppage ▪ Piecing and drawing the comber sliver ▪ Piecing the sliver on breakage at delivery zone ▪ Carrying out doffing
	Performance Criteria (PC) w.r.t. the Scope	
	Elements	Performance Criteria
	Creeling the sliver	<p>To be competent, you must be able to:</p> <p>PC1. understand the mixings, hanks and the colour codification used</p> <p>PC2. ensure the correct hank of comber laps trolleys are taken for creeling</p> <p>PC3. follow proper colour coding of comber laps</p> <p>PC4. creel the required number of cans and drawing the sliver forward</p> <p>PC5. ensure proper creeling procedure is followed for creeling the comber laps</p> <p>PC6. ensure the laps are passed through all guide rollers, comber table and stop motions</p> <p>PC7. ensure proper material handling of spool and comber laps</p>
	Attending the machine on stoppage	<p>PC8. identify whether the machine stoppage by viewing the signal lamps and in display panel</p> <p>PC9. identify the reasons for machine stoppage</p> <p>PC10. ensure minimum time is taken for attending the roller lapping, comber web breakage and sliver breakage</p>
	Piecing and drawing the comber sliver	<p>PC11. ensure minimum time is taken for attending the breakage at creel zone</p> <p>PC12. identify the reason for breakage is due to roller lappings, comber web breakage or due to comber lap exhaust</p> <p>PC13. ensure proper procedure is followed for creeling the comber lap</p> <p>PC14. ensure the comber lap is properly combed by comber</p> <p>PC15. ensure the thickness of comber web produced is uniform</p> <p>PC16. draw the comber web through the comber head and trumpet for sliver formation</p> <p>PC17. ensure proper length of sliver is available for drawing in the comber table</p> <p>PC18. ensure all the sliver are uniformly drawn through comber table to the calendaring zone</p> <p>PC19. ensure standard piecing procedure is adopted and quality of piecing is as per standards</p>

TSC /N 0112

Carryout creeling, piecing and doffing activities

	<p>PC20. ensure all the sliver are uniformly calendared and drafted in drafting zone</p> <p>PC21. ensure minimum time is taken for drawing the sliver</p> <p>PC22. ensure the sliver passes to the coiler zone uniformly</p> <p>PC23. collect the wastes collected and store in the respective waste bins hank wise</p> <p>PC24. keep the sliver waste in the waste collection pocket provided to each tenter and then put in the waste in waste collection box</p>
<p>Piecing the sliver on breakage at delivery zone</p>	<p>PC25. open the calendaring zone</p> <p>PC26. collect and condense through the calendaring rollers and trumpet for sliver formation</p> <p>PC27. ensure proper procedure is followed</p> <p>PC28. draw the sliver through the conveyor rollers and pass it through the coiler rollers in delivery zone into the sliver can</p> <p>PC29. ensure proper functioning of machine post piecing</p> <p>PC30. collect the wastes collected during piecing and store the waste at respective waste box</p> <p>PC31. segregate the reusable wastes and weigh and record them in a register</p> <p>PC32. transfer the reusable wastes to blowroom/ storage area</p> <p>PC33. ensure standard piecing procedure is adopted and quality of piecing is as per standards</p> <p>PC34. verify the quality of piecing done in the sliver</p> <p>PC35. ensure minimum time is taken for piecing the sliver</p> <p>PC36. ensure safety while carrying out piecing activity</p>
<p>Carrying out doffing</p>	<p>PC37. collect the empty cans from drawing or carding department for feeding the empty cans</p> <p>PC38. keep the can castors clean before feeding</p> <p>PC39. To ensure whether the sliver can is ready for doffing by viewing the details in display panel</p> <p>PC40. Keep the required number of empty cans near doff zone for automatic can change</p> <p>PC41. keep the empty sliver can near the doffing machine in manual doffing</p> <p>PC42. doff the full sliver can in case of manual doffing</p>
<p>Knowledge and Understanding (K)</p>	
<p>A. Organizational Context (Knowledge of the company/ organization and its processes)</p>	<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. reporting to the supervisor or higher authority in case of emergency</p> <p>KA5. color coding adopted for different hanks in the textile mill</p>

TSC /N 0112

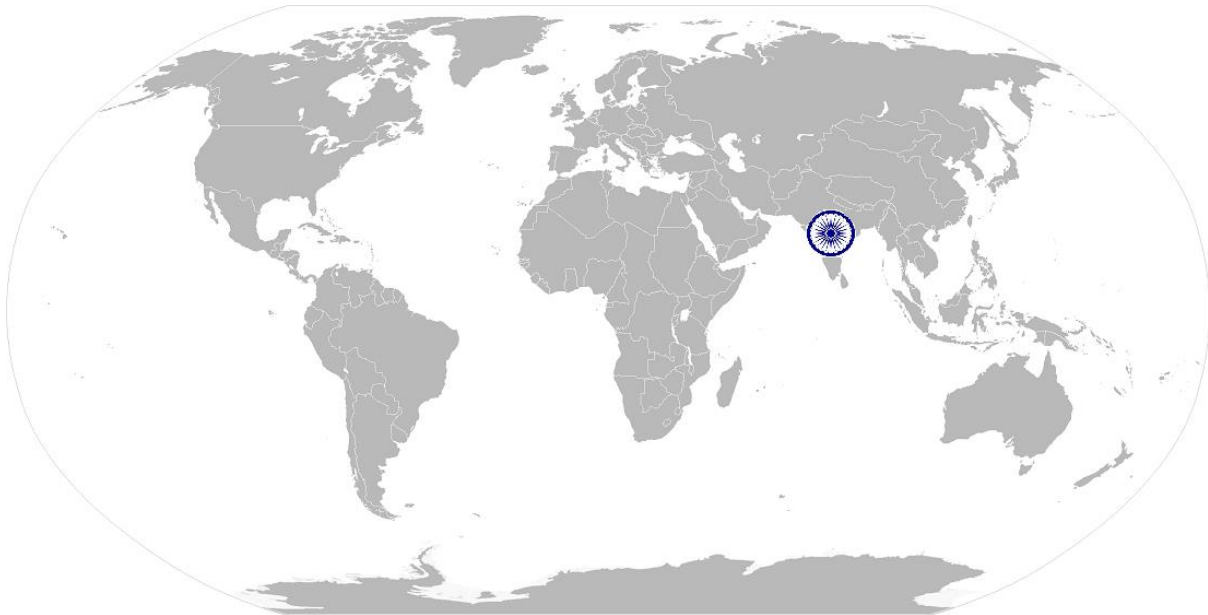
Carryout creeling, piecing and doffing activities

<p>B. Technical Knowledge</p>	<p>You need to know and understand:</p> <p>KB1. Process flow and material flow in textile mill KB2. Functions of comber machine KB3. Functions of control switches and signal lamps KB4. Importance of creeling, KB5. Importance of piecing KB6. Importance of doffing KB7. Importance of colour coding KB8. Importance of sliver quality KB9. Guidelines for creeling the comber lap KB10. Guidelines for drawing the comber web in comber table and sliver formation KB11. Guidelines for drawing sliver through calendaring KB12. Guidelines and precautions for piecing the sliver KB13. Guidelines and precautions for carrying out doffing activity KA6. Knowledge of different functions in display panel and procedure to operate the machine KA7. Importance of time management KA8. Importance of material handling KA9. Guidelines for material handling of various tools and equipments KB14. Types of wastes and importance of collecting waste KB15. Importance of cleanliness and safety at work place</p>
<p>Skills (S)</p>	
<p>A. Core Skills/ Generic Skills</p>	<p>Writing Skills</p> <p>You need to know and understand how to:</p> <p>SA1. write clear and short sentences</p> <p>Reading Skills</p> <p>You need to know and understand how to:</p> <p>SA2. read and comprehend written instructions</p> <p>Oral Communication (Listening and Speaking skills)</p> <p>You need to know and understand how to:</p> <p>SA3. Communicate with supervisor appropriately SA4. talk to others to convey information effectively</p>
<p>B. Professional Skills</p>	<p>Problem Solving</p> <p>You need to know and understand how to:</p> <p>SB1. apply problem-solving approaches in different situations SB2. refer anomalies to the supervisor SB3. seek clarification on problems from others</p> <p>Attention to Detail</p> <p>You need to know and understand how to:</p> <p>SB4. apply good attention to detail SB5. check your work is complete and free from errors</p>
<p>C. Technical Skills</p>	<p>You need to know and understand :</p> <p>SC1. Procedure for creeling the comber lap SC2. Procedure for drawing the comber web for sliver formation</p>

TSC /N 0112

Carryout creeling, piecing and doffing activities

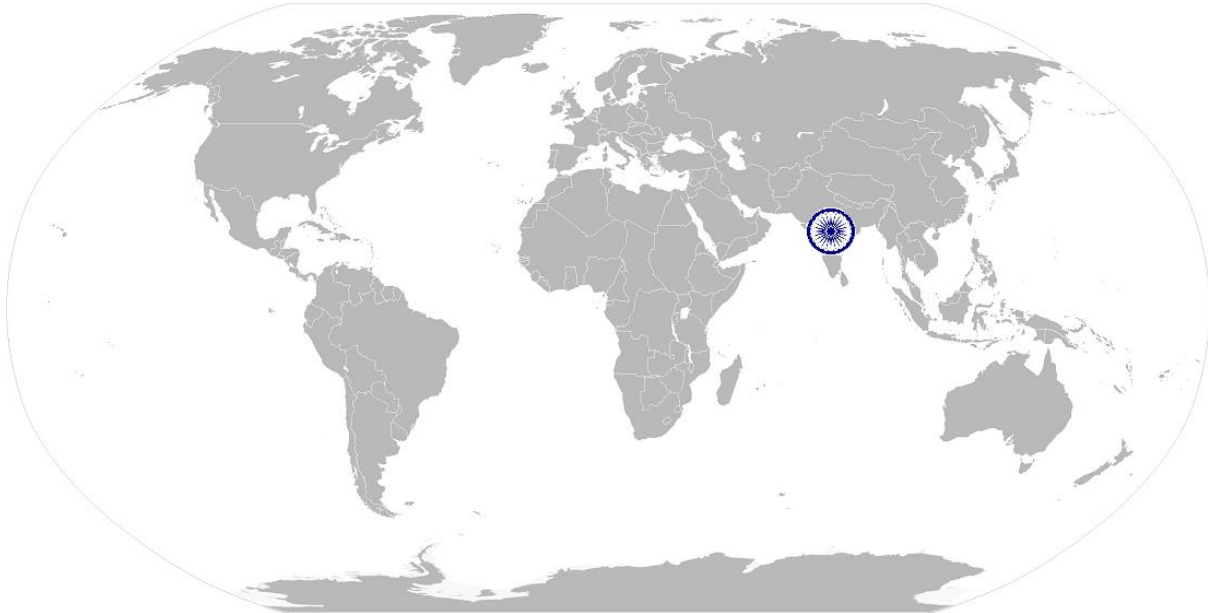
	<p>SC3. Procedure for drawing the combed sliver in comber table</p> <p>SC4. Procedure for condensing the sliver and feeding to coiler unit and delivery zone for sliver formation</p> <p>SC5. Standard operating procedure for carrying out creeling activity</p> <p>SC4. Standard operating procedure for carrying out piecing activity</p> <p>SC5. Standard operating procedure for carrying out doffing activity</p> <p>SC6. Procedure for segregating the different types of cotton wastes</p> <p>SC7. Procedure for storing reusable wastes and weighing them</p> <p>SC8. Procedure for material handling of spool, comber lap, sliver, sliver can</p> <p>SC9. Maintain cleanliness at work</p>
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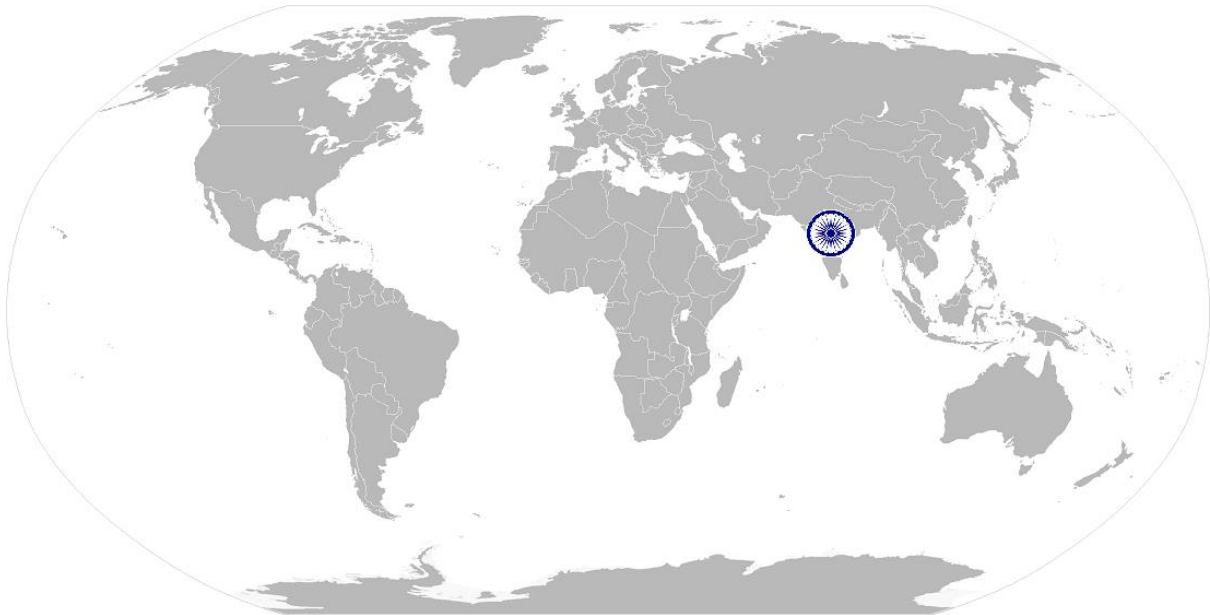
Carryout creeling, piecing and doffing activities

NOS Version Control

NOS Code	TSC/ N0112		
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 Preparatory	Next review date	01/03/16



National Occupational Standard



Overview

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

TSC/ N 9001

Maintaining work area, tools and machine

National Occupational Standard

Unit Code	TSC/ N9001
Unit Title (Task)	Maintaining work area, tools and machines
Description	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
Scope	This unit covers the following <ul style="list-style-type: none"> Maintain the work area, tools and machines
Performance Criteria (PC) w.r.t. the Scope	
Elements	Performance Criteria
Maintain the work area, tools and machines	<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>
Knowledge and Understanding (K)	
A. Organizational Context (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 organisational standard operating procedures</p> <p>KA3. limits of your own responsibility</p> <p>KA4. ways of resolving with 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. Technical Knowledge	<p>You need to know and understand:</p> <p>KB1. relation between work role and the overall manufacturing process</p> <p>KB2. hazards likely to be encountered when conducting routine maintenance</p>

TSC/ N 9001

Maintaining work area, tools and machine

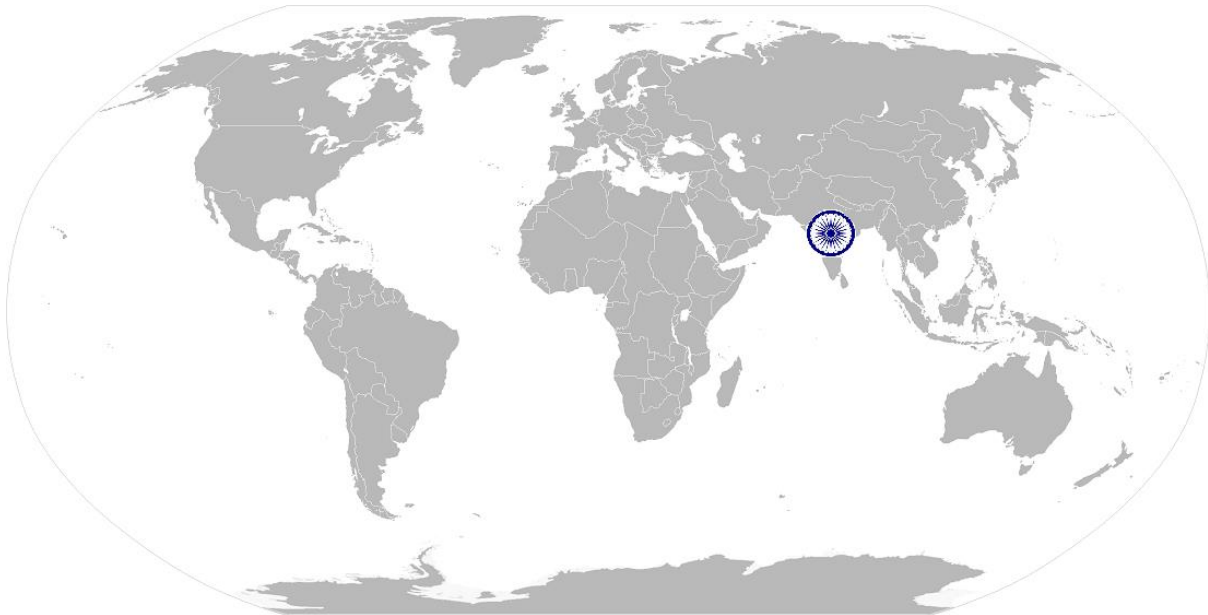
	<p>KB3. the importance of taking action when problems are identified KB4. different ways of minimising waste KB5. the importance of running maintenance and regular cleaning KB6. effects of contamination on products i.e. machine oil, dirt, foreign materials KB7. common faults with equipment and the method to rectify KB8. maintenance procedures KB9. different types of cleaning equipment and substances and their use KB10. safe working practices for cleaning and the method of carrying them out</p>
Skills (S)	
<p>A. Core Skills/ Generic Skills</p>	<p>Reading Skills</p>
	<p>You need to know and understand how to: SA1. comprehend written instructions SA2. read any application sent by other colleagues</p>
	<p>Oral Communication (Listening and Speaking skills)</p>
<p>B. Professional Skills</p>	<p>You need to know and understand how to: SA3. Comprehend written instructions</p>
	<p>Problem Solving</p> <p>You need to know and understand how to: SB1. identify the real reason of problem faced SB2. apply problem-solving approaches in different situations SB3. refer anomalies to the supervisor SB4. seek clarification on problems from others</p>
	<p>Attention to Detail</p> <p>You need to know and understand how to: SB5. apply good attention to detail SB6. check your work is complete and free from errors SB7. make sure every kind of communication is error free</p>
<p>C. Technical Skills</p>	<p>You need to know and understand :</p> <p>SC1. communicate effectively SC2. apply leadership skills wherever required SC3. take initiative at the right place SC4. understand the requirement to be creative</p>

TSC/ N 9001

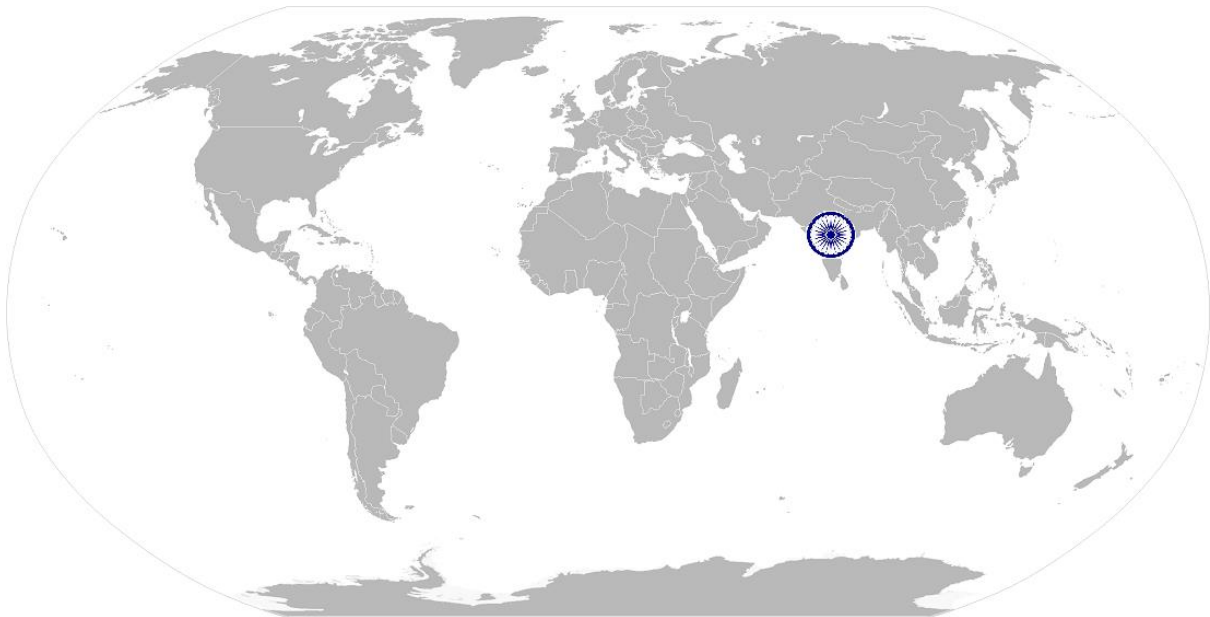
Maintaining work area, tools and machine

NOS Version Control

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 Preparatory	Next review date	01/03/16



National Occupational Standard



Overview

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

TSC/N 9002

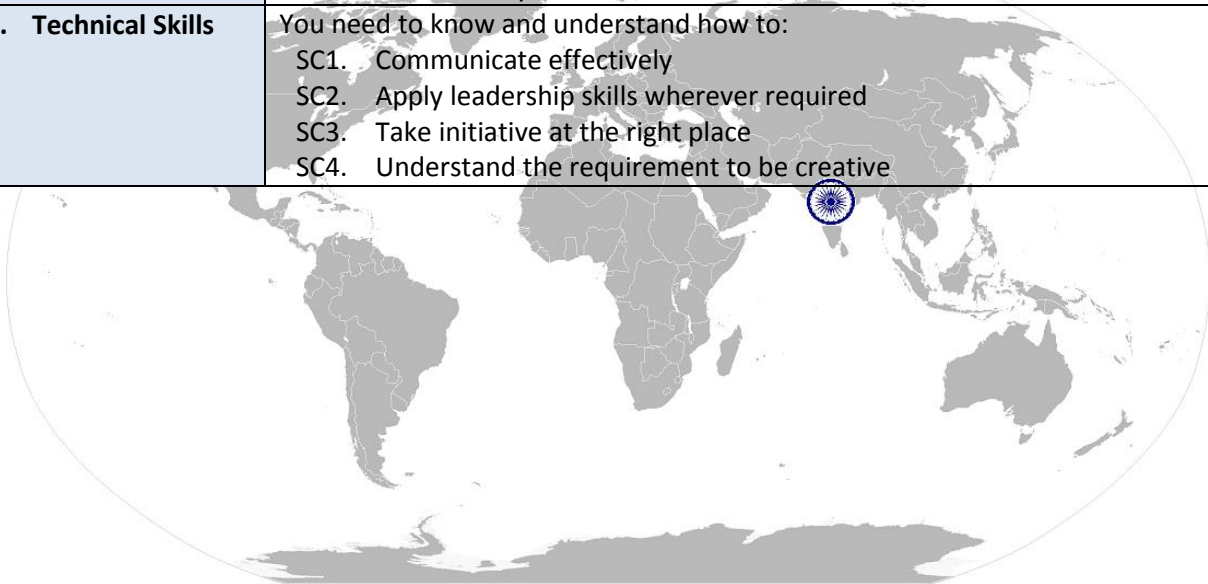
Working in a team

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

TSC/N 9002

Working in a team

	You need to know and understand how to: SA4. Read and comprehend written instructions SA5. Read any application sent by other colleagues
	Oral Communication (Listening and Speaking skills)
	You need to know and understand how to: SA6. Communicate with supervisor appropriately SA7. Talk to co-workers to convey information effectively
B. Professional Skills	Problem Solving
	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
	Attention to Detail
	You need to know and understand how to: SB3. Apply good attention to detail SB4. Ensure every kind of communication is error free
C. Technical Skills	You need to know and understand how to: SC1. Communicate effectively SC2. Apply leadership skills wherever required SC3. Take initiative at the right place SC4. Understand the requirement to be creative

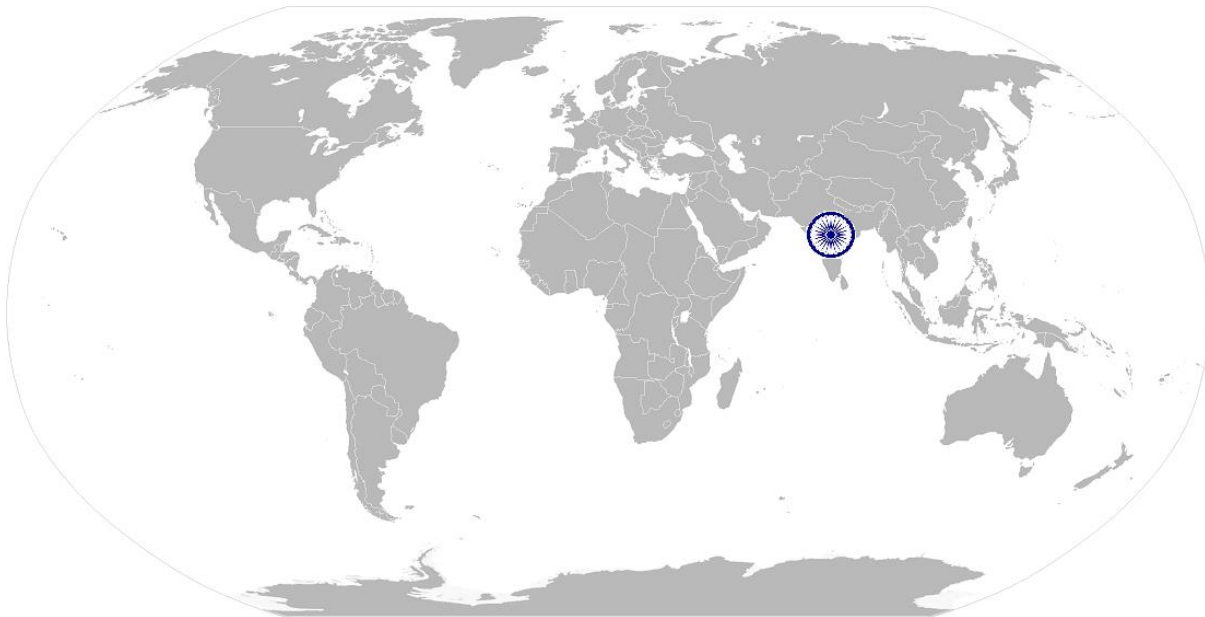


TSC/N 9002

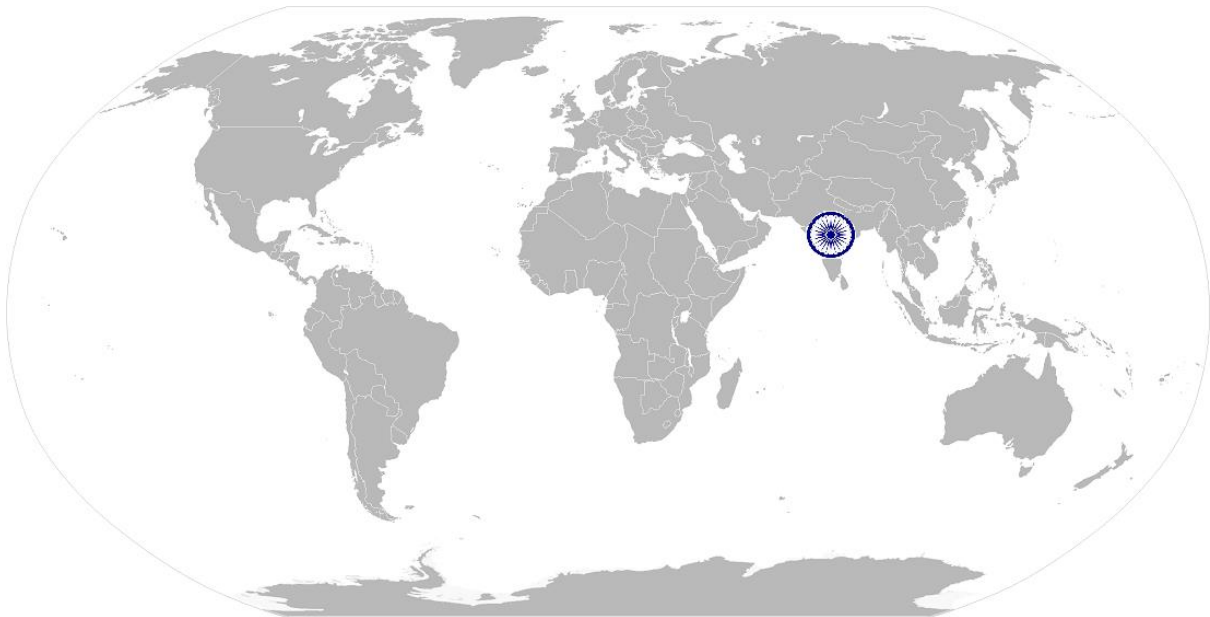
Working in a team

NOS Version Control

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 Preparatory	Next review date	01/03/16



National Occupational Standard



Overview

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

TSC/N 9003

Maintain health, safety and security at work place

National Occupational Standard	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"> ▪ Comply with health, Safety and security requirements at work ▪ Recognizing the hazards ▪ Planning the safety techniques ▪ Implementing the programs
	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>To be competent, you must be able to:</p> <p>PC19. identify different kinds of possible hazards (environmental, personal,</p>

TSC/N 9003

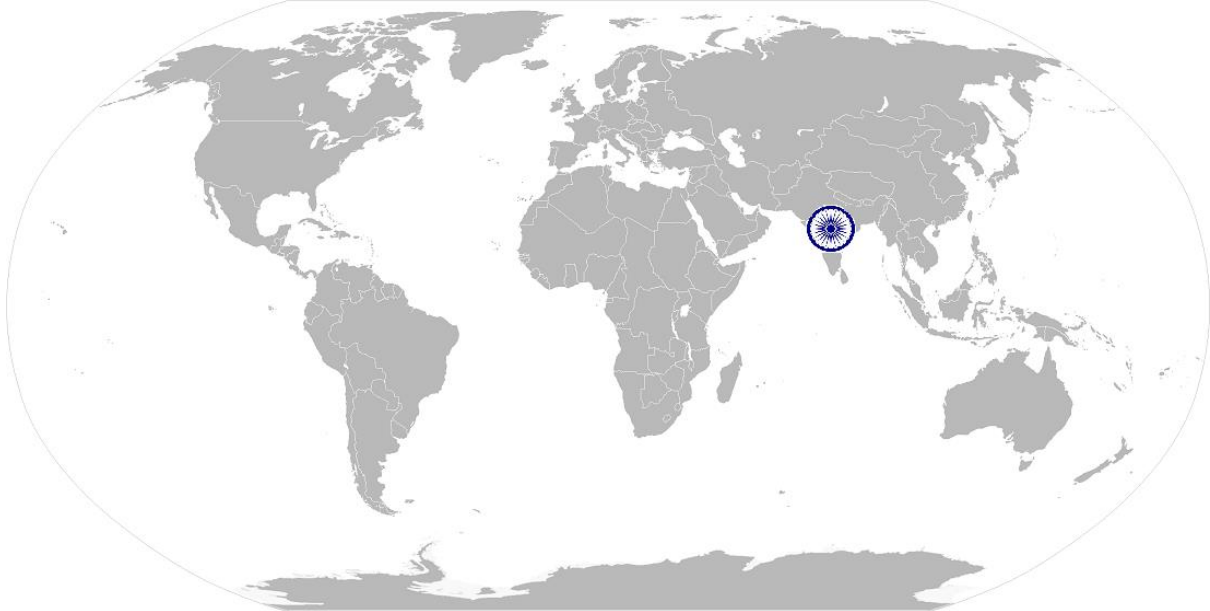
Maintain health, safety and security at work place

	ergonomic, chemical) of the industry PC20. recognise other possible security issues existing in the workplace
Planning the safety techniques	PC21. recognise different measures to curb the hazards
Implementing the programs	PC22. communicate the safety plan to everyone PC23. attach disciplinary rules with the implementation
Knowledge and Understanding (K)	
A. Organizational Context (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. safe working practices to be adopted in textile mill KA3. quality systems and other processes practiced in the textile mill KA4. health and safety related practices applicable at the workplace KA5. potential hazards, risks and threats based on nature of operations KA6. organizational procedures for safe handling of equipment and machine operations KA7. potential risks due to own actions and methods to minimize these KA8. environmental management system related procedures at the workplace KA9. layout of the plant and details of emergency exits, escape routes, emergency equipment and assembly points KA10. potential accidents and emergencies and response to these scenarios KA11. reporting protocol and documentation required KA12. details of personnel trained in first aid, fire-fighting and emergency response KA13. actions to take in the event of a mock drills/ evacuation procedures or actual accident, emergency or fire
B. Technical Knowledge	You need to know and understand: KB1. occupational health and safety risks and methods KB2. personal protective equipment and method of use KB3. identification, handling and storage of hazardous substances KB4. proper disposal system for waste and by-products KB5. signage related to health and safety and their meaning KB6. importance of sound health, hygiene and good habits KB7. ill-effects of alcohol, tobacco and drugs
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	You need to know and understand how to: SA1. write clear and short sentences
	Reading Skills
	You need to know how to: SA2. read and understand the company instructions SA3. read and understand the basic language SA4. read and understand the safety guidelines
	Oral Communication (Listening and Speaking skills)
	SA5. listen to others attentively SA6. respond to emergencies, accidents or fire at the workplace SA7. evacuate the premises and help others in need while doing so

TSC/N 9003

Maintain health, safety and security at work place

	SA8. the value of physical fitness, personal hygiene and good habits SA9. talk with others politely
B. Professional Skills	Decision Making
	SB1. identify correct safety measure for particular hazard SB2. make required safety plans as and when required SB3. raise alarm in case of emergency
	Analytical Thinking
	SB4. know the use of correct safety measure whenever required
	Attention to Detail
	SB5. be attentive to details SB6. be careful to avoid occurrence of hazards
C. Technical Skills	You need to know and understand : SC1. maintain neatness at work SC2. procedure for reporting unwanted behavior

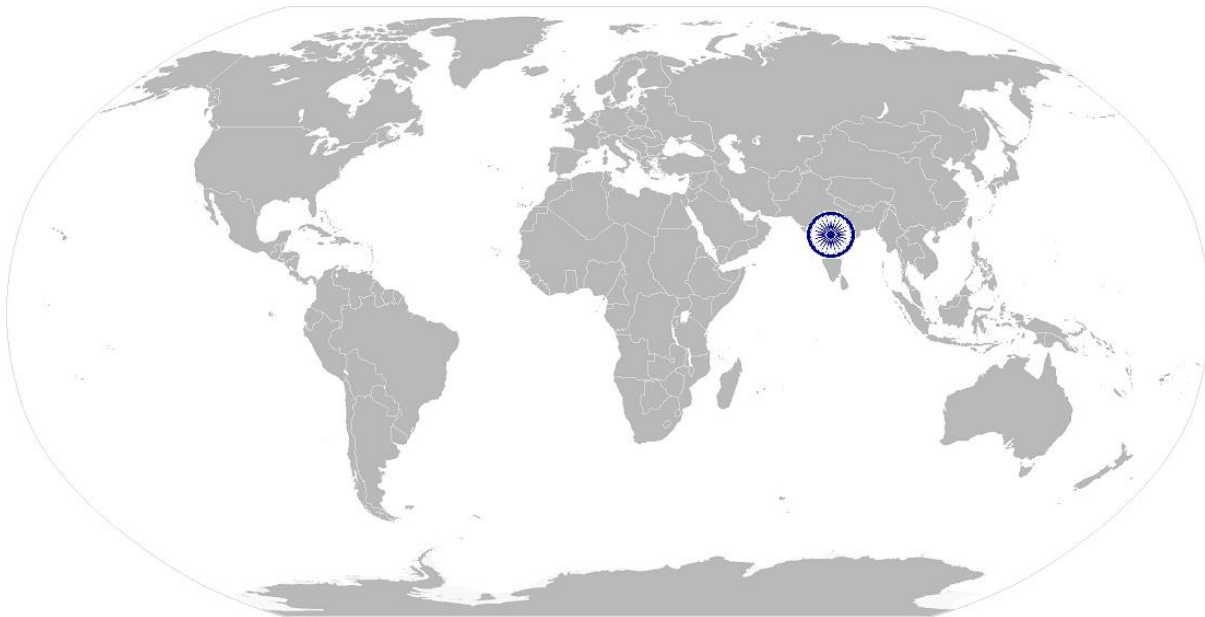


TSC/N 9003

Maintain health, safety and security at work place

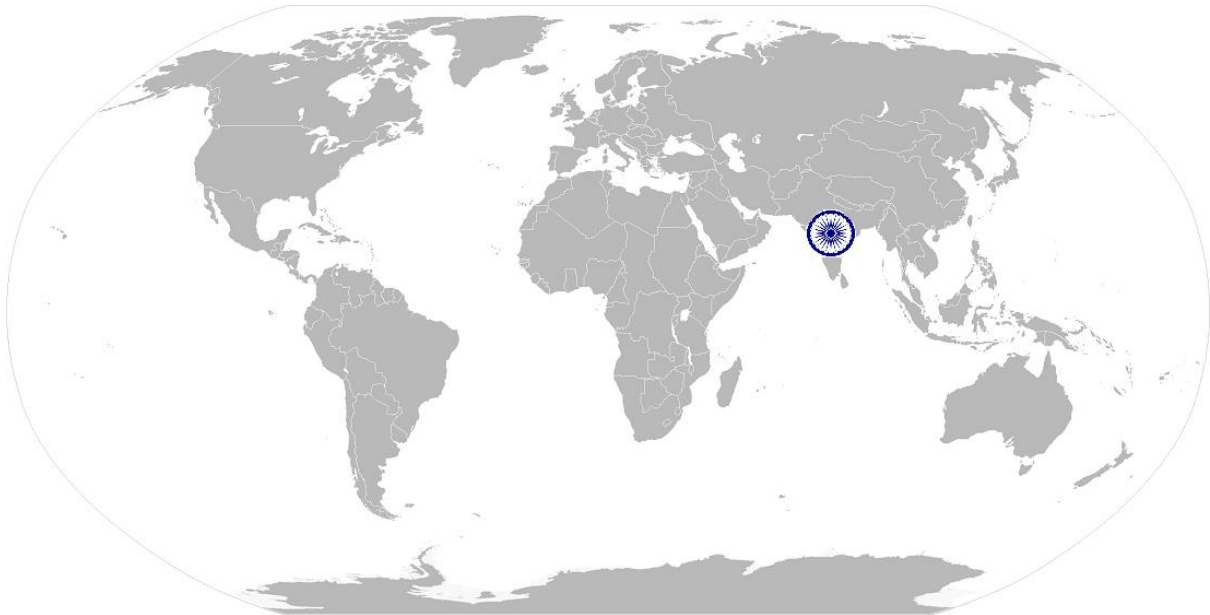
NOS Version Control

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 Preparatory	Next review date	01/03/16



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 /N 9004

Comply with industry and organizational requirements

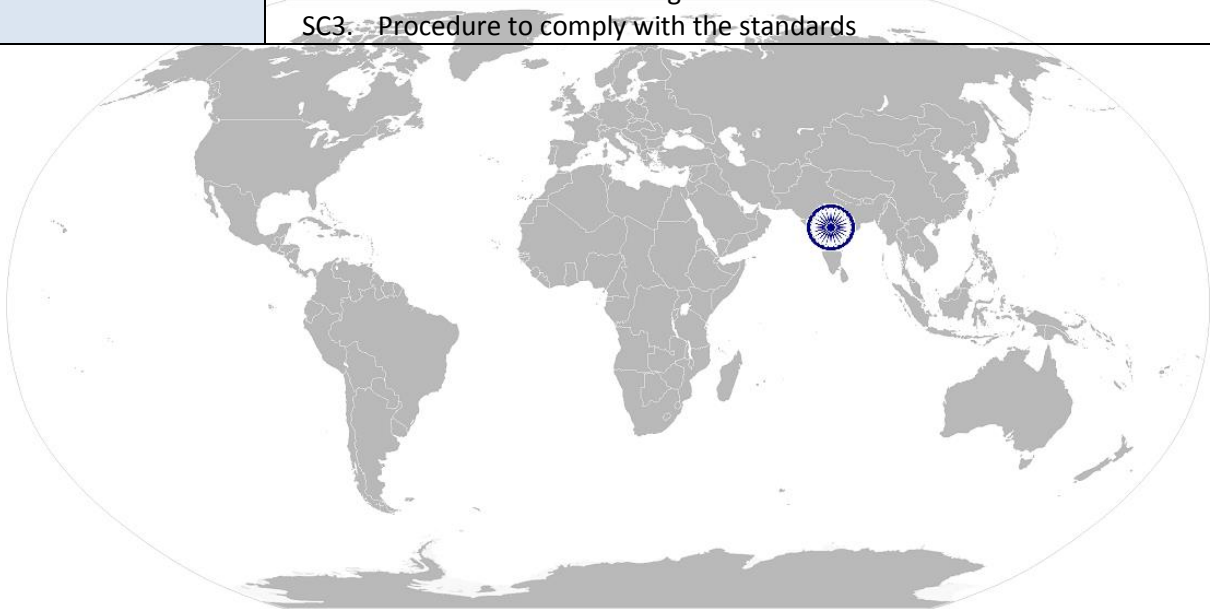
National Occupational Standard

Unit Code	TSC/ N 9004
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	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> ▪ self development ▪ team work ▪ organizational standards ▪ industry standards
Performance Criteria (PC) w.r.t. the Scope	
Elements	PerformanceCriteria
Self- development	<p>to be competent, you must be able to:</p> <p>PC1. perform own duties effectively</p> <p>PC2. take responsibility for own actions</p> <p>PC3. be accountable towards the job role and assigned duties</p> <p>PC4. take initiative and innovate the existing methods</p> <p>PC5. focus on self-learning and improvement</p>
Team work	<p>PC6. co-ordinate with all the team members and colleagues</p> <p>PC7. communicate politely</p> <p>PC8. avoid conflicts and miscommunication</p>
Organisational standards	<p>PC9. know the organisational standards</p> <p>PC10. implement them in your performance</p> <p>PC11. motivate others to follow them</p>
Industry standards	<p>PC12. know the industry standards</p> <p>PC13. align them with organisation standards</p>
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company/ organization and its processes)	<p>You need to know and understand:</p> <p>KA1. Standard operating procedures (SOP)</p> <p>KA2. process and material flow in a textile mill</p> <p>KA3. importance of complying with the standards</p> <p>KA4. guidelines for cleaning the various parts of machine</p>
B. Technical Knowledge	<p>You need to know and understand:</p> <p>KB1. process and material flow in a textile mill</p> <p>KB2. importance of copying with the standards</p> <p>KB3. guidelines for cleaning the various part of combing machine</p>
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	<p>You need to know and understand how to:</p> <p>SA1. Write reports</p> <p>SA2. Write clear and short sentences</p>

TSC /N 9004

Comply with industry and organizational requirements

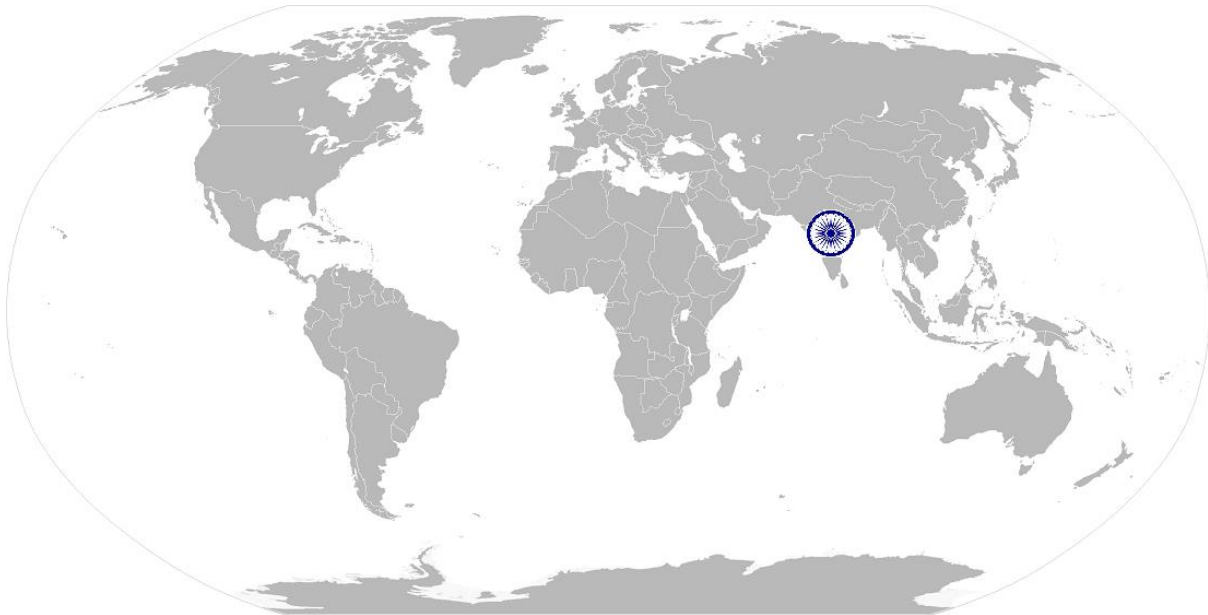
	Reading Skills
	You need to know and understand how to: SA3. read the basic language SA4. read one more language than the basic language SA5. read and comprehend the standards and rules
	Oral Communication (Listening and Speaking skills)
B. Technical Skills	You need to know and understand how to: SA6. talk effectively with others SA7. put forward your point SA8. listen to others
	You need to know and understand : SC1. Procedure of preparing the industry standards SC2. Procedure to follow the given standards SC3. Procedure to comply with the standards



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 Preparatory	Next review date	01/03/16



Assessment criteria

Job Role: Combing Operator
Qualification Pack: Combing Operator
Sector Skill Council: Textile Sector Skill Council

Guidelines for assessment :-

1. Criteria for assessment for each qualification pack will be created by the Sector Skill Council. Each performance criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for theory & skill practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of question created by the SSC.
3. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre (as per assessment criteria below).
4. To pass the qualification pack, every trainee should score a minimum of 80%.

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
1. TSC/N0110 (Taking charge of shift and handing over shift to operator)	PC1. come at least 10 - 15 minutes earlier to the work spot	100	4	2	1	1
	PC2. bring the necessary operational tools to the department		4	1	2	1
	PC3. meet the previous shift operator and discuss with him/ her regarding the issues faced by them with respect to the quality or production or spare or safety or any other specific instruction etc.		5	2	1	2
	PC4. understand the hank produced, colour coding, followed in the combing preparatory and combing department for his allocated number of machines		6	2	2	2
	PC5. ensure the technical details are mentioned in the display board in the autoconer		4	2	1	1
	PC6. check for the availability of the comber laps and spools in storage area		4	1	2	1
	PC7. ensure all the machines are running properly, machines which are not running and problems if any should be clarified with the supervisor and operator		4	1	2	1

Assessment criteria

PC8. ensure proper functioning of combing machine parts	5	2	2	1
PC9. check the cleanliness of the machines & other work areas	4	1	2	1
PC10. 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
PC11. question the previous shift operator for any deviation in the above and should bring the same to the knowledge of His/ Her shift Superior as well that of the previous shift as well.	4	2	1	1
PC12. ensure the wastes collection boxes are empty while taking charge of shift	4	1	2	1
PC13. ensure the work spot is clean	3	1	1	1
PC14. ensure carding can randomization	5	2	2	1
PC15. hand over the shift to the incoming shift operator in a proper manner	6	2	2	2
PC16. ensure in providing the details regarding hank produced, colour coding followed in the combing preparatory for his allocated number of machines	6	2	2	2
PC17. provide all relevant information regarding the hank produced, , damaged machine parts if any	5	2	1	2
PC18. get clearance from the incoming counterpart before leaving the work spot	5	2	1	2
PC19. report to his/ her shift Superiors as well as that of the incoming shift operator in case his/ her counterpart doesn't report for the incoming shift	4	1	2	1
PC20. ensure the shift has to be properly handed over to the incoming shift operator	4	1	1	2
PC21. 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	2	2	0

Assessment criteria

	PC22. collect the wastes from waste collection bags, weigh them and transport to storage area		3	1	1	1
	PC23. ensure the work spot is clean		3	1	1	1
	Total		100	35	36	29
	Weightage %			35%	36%	29%
2. TSC/N0111 (Operating the combing machine)	PC1. ensure that necessary changes and tests are carried out and follow the instructions of the superiors before running the machine	250	5	2	1	2
	PC2. operate the control switches for starting and stopping the machine		5	2	1	2
	PC3. follow the different signal lamps used in machines		4	1	2	1
	PC4. identify the mixing by looking at the hank board affixed on the machine		4	1	2	1
	PC5. sliver display monitor should be always on while the machine is working		4	1	2	1
	PC6. ensure proper functioning of comber by verifying in the display panel		4	1	2	1
	PC7. check whether the comber lap is properly fed		4	1	2	1
	PC8. replenish the laps with minimum waste		4	1	2	1
	PC9. remove the roller lapping		4	1	2	1
	PC10. draw the cotton web to the delivery zone		4	1	2	1
	PC11. piece the sliver during breakage		6	2	2	2
	PC12. doff the full comber sliver can		6	2	2	2
	PC13. view the display panel and identify the reasons for machine stoppages if any		4	1	2	1
	PC14. ensure the machine is running in the set speed by viewing the display panel		4	1	2	1
	PC15. ensure the working area is clean		4	1	2	1
	PC16. ensure surface of the comber lap fed is free from defects / damages		4	1	2	1
	PC17. ensure the sliver produced is free from surface damages		4	1	2	1
	PC18. clean the can castors before putting the cans to the comber		4	1	2	1

Assessment criteria

PC19. ensure the sliver cans are clean before feeding in the doffing zone	4	1	2	1
PC20. clean the drafting zone twice a shift and remove cotton stickings in the rollers, bearings etc	5	2	2	1
PC21. remove the defect in slivers	5	2	2	1
PC22. support the mechanic while carryout cleaning maintenance activities	4	1	2	1
PC23. ensure drawing area is clean	4	1	2	1
PC24. ensure the comber table is clean and clean at regular intervals	3	1	1	1
PC25. carryout cleaning activities in creeling zone, drafting zone, and delivery zone	4	1	2	1
PC26. ensure that the nipper, half lap, top comb, drafting zone, table, calendaring zone, triumphet, coilers etc. are clean	4	1	2	1
PC27. collect the noils in the comber machine at the specified intervals	4	1	2	1
PC28. clean the comber once a shift and remove cotton sticking if any	5	2	2	1
PC29. clean the wastes around the machine	4	1	2	1
PC30. deposit the lap / sliver waste mixing wise in the containers provided near the machine	4	1	2	1
PC31. ensure safety while carrying out cleaning	4	1	2	1
PC32. ensuring the wastes collected are deposited in the respective hank wise waste box	4	1	2	1
PC33. ensure combing area is clean	3	1	1	1
PC34. support the fitter for carrying out maintenance activities	5	2	2	1
PC35. ensure the draft variation on cv% is within the limits and if it's abnormal report it to superiors	4	1	2	1
PC36. ensure the noils are removed as per the set limits, if abnormal should be reported to the superiors	5	2	2	1

Assessment criteria

PC37. attend roller lapping, chocking of lap, sliver and ensure minimum waste	5	2	2	1
PC38. carry out wheel changes/ hank changes as per supervisor's instructions	5	2	2	1
PC39. ensure roller lapping doesn't happen frequently	4	1	2	1
PC40. ensure the rollers are dry enough to avoid lapping	4	1	2	1
PC41. ensure the top comb is clean	4	1	2	1
PC42. ensure the surface of the comber table is smooth	4	1	2	1
PC43. release the pressure on top rollers of the drafting zone when the machine is to be stopped for longer duration	4	1	2	1
PC44. ensure the noil sortiment position in panel board is as per the direction of supervisors	4	1	2	1
PC45. inform superiors immediately if the sliver monitors alarm rings in the machine	4	1	1	2
PC46. inform the supervisor and maintenance in charge in case of a jam	4	1	1	2
PC47. report to the superiors and support him for carrying out maintenance activities ,in case of any break-downs,	5	1	1	3
PC48. support the fitter during minor breakdown	4	1	2	1
PC49. ensure proper material handling of spool, comber lap, sliver, sliver can and empty can	5	2	2	1
PC50. ensure using proper material handling of tools and equipments	5	2	2	1
PC51. ensure safety while operating the comber	4	1	2	1
PC52. use the safety gadgets like caps, masks and shoes and verifying the safety stop motions	5	2	2	1
PC53. ensure the sliver produced is free from outside damages	4	1	2	1
PC54. Inform superiors immediately, if any break down or fault in the machine	4	1	1	2

Assessment criteria

	is noticed					
	PC55. ensure the proper functioning of signal lamps		3	1	1	1
	PC56. ensure that machine is working properly, if any deviations inform superiors immediately		4	1	2	1
	PC57. collect the reusable wastes and weigh them at shift end and place them in specified area		6	2	2	2
	PC58. provide all relevant information's of the current working process to the next shift operator before relieving.		6	2	2	2
	Total		250	74	107	69
	Weightage %			30%	42%	28%
3 . TSC/N0112 (Carryout creeling, piecing and doffing activities)	PC1. understand the mixings, hanks and the colour codification used	200	6	2	1	3
	PC2. ensure the correct hank of comber laps are taken for creeling		6	2	2	2
	PC3. follow proper colour coding of comber laps		4	1	2	1
	PC4. creel the required number of cans and drawing the sliver forward		5	2	2	1
	PC5. ensure proper creeling procedure is followed for creeling the comber laps		5	2	2	1
	PC6. ensure the laps are passed through all guide rollers, comber table and stop motions		6	2	3	1
	PC7. ensure proper material handling of spool and comber laps		5	2	2	1
	PC8. identify whether the machine stoppage by viewing the signal lamps and in display panel		4	1	2	1
	PC9. identify the reasons for machine stoppage		5	2	2	1
	PC10. ensure minimum time is taken for attending the roller lapping, comber web breakage and sliver breakage		4	1	2	1
	PC11. ensure minimum time is taken for attending the breakage at creel zone		4	1	2	1

Assessment criteria

PC12. identify the reason for breakage is due to roller lappings, comber web breakage or due to comber lap exhaust	4	1	2	1
PC13. ensure proper procedure is followed for creeling the comber lap	5	2	2	1
PC14. ensure the comber lap is properly combed by comber	6	2	3	1
PC15. ensure the thickness of comber web produced is uniform	6	2	3	1
PC16. draw the comber web through the comber head and trumpet for sliver formation	6	2	3	1
PC17. ensure proper length of sliver is available for drawing in the comber table	5	2	2	1
PC18. ensure all the sliver are uniformly drawn through comber table to the calendaring zone	4	1	2	1
PC19. ensure standard piecing procedure is adopted and quality of piecing is as per standards	5	2	2	1
PC20. ensure all the sliver are uniformly calendared and drafted in drafting zone	5	2	2	1
PC21. ensure minimum time is taken for drawing the sliver	4	1	2	1
PC22. ensure the sliver passes to the coiler zone uniformly	5	2	2	1
PC23. collect the wastes collected and store in the respective waste bins hank wise	5	2	2	1
PC24. keep the sliver waste in the waste collection pocket provided to each tenter and then put in the waste in waste collection box	4	1	2	1
PC25. open the calendaring zone	5	2	2	1
PC26. ensure minimum time is taken for piecing the sliver	5	2	2	1
PC27. ensure proper procedure is followed	4	1	2	1
PC28. draw the sliver through the conveyor rollers and pass it through the coiler rollers in delivery zone into the sliver can	5	2	2	1

Assessment criteria

	PC29. ensure proper functioning of machine post piecing		5	2	2	1
	PC30. collect the wastes collected during piecing and store the waste at respective waste box		4	1	2	1
	PC31. segregate the reusable wastes and weigh and record them in a register		4	1	2	1
	PC32. transfer the reusable wastes to blowroom/ storage area		4	1	2	1
	PC33. ensure standard piecing procedure is adopted and quality of piecing is as per standards		4	1	2	1
	PC34. verify the quality of piecing done in the sliver		5	2	2	1
	PC35. ensure minimum time is taken for piecing the sliver		4	1	2	1
	PC36. ensure safety while carrying out piecing activity		4	1	2	1
	PC37. collect the empty cans from drawing or carding department for feeding the empty cans		5	2	2	1
	PC38. keep the can castors clean before feeding		4	1	2	1
	PC39. ensure whether the sliver can is ready for doffing by viewing the details in display panel		5	2	2	1
	PC40. Keep the required number of empty cans near doff zone for automatic can change		4	1	2	1
	PC41. keep the empty sliver can near the doffing machine in manual doffing		5	2	2	1
	PC42. doff the full sliver can in case of manual doffing		6	2	2	2
	Total		200	67	87	46
	Weightage %			34%	44%	23%
4.TSC/N9001 (Maintaining work area, tools and machines)	PC1. handle materials, machinery, equipment and tools with care and use them in the correct way	50	4	1	2	1
	PC2. use correct lifting and handling procedures		4	1	2	1
	PC3. use materials to minimize waste		3	1	1	1
	PC4. maintain a clean and hazard free		3	1	1	1

Assessment criteria

	working area					
	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
	PC14. carry out cleaning according to schedules and limits of responsibility		4	1	2	1
	Total		50	15	21	14
	Weightage %			30%	42%	28%
5.TSC/N9002 (Working in a team)	PC1. be accountable to the own role in whole process	50	4	2	1	1
	PC2. perform all roles with full responsibility		4	2	1	1
	PC3. be effective and efficient at workplace		5	1	2	1
	PC4. properly communicate about company policies		4	1	2	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	2
	PC9. give due importance to others' point of view		4	2	1	1
	PC10. avoid conflicting situations		4	2	1	1
	PC11. develop new ideas for work		4	1	2	1

Assessment criteria

	procedures					
	PC12. improve upon the existing techniques to increase process efficiency		4	1	2	1
	Total		50	17	17	16
	Weightage %			34%	34%	32%
6.TSC/N9003 (Maintain health, safety and security at work place)	PC1. comply with health and safety related instructions applicable to the workplace	100	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 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

Assessment criteria

	PC15. participate in mock drills/evacuation procedures organized at the workplace		4	2	2	0
	PC16. undertake first aid, fire-fighting and emergency response training, if asked to do so		5	2	2	1
	PC17. take action based on instructions in the event of fire, emergencies or accidents		5	2	2	1
	PC18. follow organisation procedures for shutdown and evacuation when required		4	2	1	1
	PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry		4	2	1	1
	PC20. recognise other possible security issues existing in the workplace		4	2	1	1
	PC21. recognise different measures to curb the hazards		4	2	1	1
	PC22. communicate the safety plan to everyone		4	2	1	1
	PC23. attach disciplinary rules with the implementation		4	2	1	1
	Total		100	43	34	23
	Weightage %			43.00%	34.00%	23.00%
7.TSC/N9004 (Comply with industry and organizational requirements)	PC1. perform own duties effectively	50	4	1	2	1
	PC2. take responsibility for own actions		4	1	2	1
	PC3. be accountable towards the job role and assigned duties		4	2	1	1
	PC4. take initiative and innovate the existing methods		3	1	1	1
	PC5. focus on self-learning and improvement		4	1	2	1
	PC6. co-ordinate with all the team members and colleagues		4	1	2	1
	PC7. communicate politely		4	1	1	2
	PC8. avoid conflicts and miscommunication		4	1	2	1
	PC9. know the organisational standards		4	2	1	1
	PC10. implement them in your performance		4	1	2	1

Assessment criteria

	PC11. motivate others to follow them		3	1	1	1
	PC12. know the industry standards		4	3	1	0
	PC13. align them with organisation standards		4	2	1	1
	Total		50	18	19	13
	Weightage %			34%	40%	26%
Total			800	269	321	210
Grand total			800			