

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 – Continuous Bleaching Range Operator

SECTOR: TEXTILE

SUB-SECTOR: PROCESSING

OCCUPATION: PRE-TREATMENT

REFERENCE ID: TSC/ Q5102

ALIGNED TO: NCO-2004 / 8264.50

Brief Job Description: A Continuous Range (CBR) Operator is responsible to do the specified job of Scouring, Bleaching & Drying of grey fabric with proper control of parameters to get the desired effect. . He should be able to operate the machine, carry out routine cleaning & preventive maintenance activities to produce defect free fabric. This job requires the individual to have thorough knowledge of process flow and material flow in a processing mill for fabric production and should know the important functions and operations of a Continuous Bleaching Range machine.

Personal Attributes: A Continuous Bleaching Range Operator should have good eyesight, motor skills and vision. He/she should also have good interpersonal skills.

Job Details	Qualifications Pack Code	TSC/Q5102		
	Job Role	Continuous Bleaching Range Operator		
	Credits (NSQF)	TBD	Version number	1.0
	Sector	Textile	Drafted on	15/12/15
	Sub-sector	Processing	Last reviewed on	25/02/15
	Occupation	Pre-Treatment	Next review date	01/03/16
	Job Role	Continuous Bleaching Range Operator		
Role Description		To carry out the process of Scouring, Bleaching & Drying of fabric using a Continuous Bleaching Range Machine, as specified under Job Order		
NSQF level		4		
Minimum Educational Qualifications		10 th standard, preferably ITI Certificate		
Maximum Educational Qualifications		N/A		
Training (Suggested but not mandatory)		Three to six months of training in textile processing.		
Experience		Preferably 1-2 years		
National Occupational Standards (NOS)		Compulsory: <ol style="list-style-type: none"> TSC/N5104 Taking charge of shift and handing over shift to Continuous Bleaching Range Operator TSC/N5105 Operating the Continuous Bleaching Range Machine TSC/N5106 Checking the quality of Bleached fabric 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 Optional:		
Performance Criteria		As described in the relevant OS units		

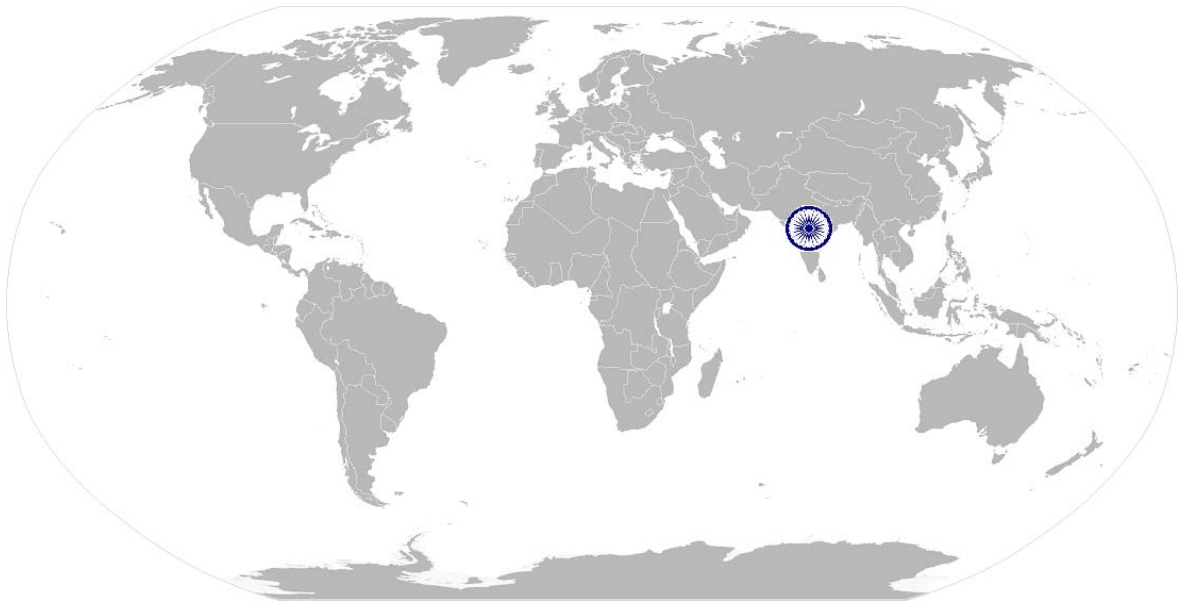
Table 1: Glossary of Key Terms

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/ N5104 Taking charge of shift and handing over shift to Continuous Bleaching Range Operator

National Occupational Standard



Overview

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

TSC/ N5104 Taking charge of shift and handing over shift to Continuous Bleaching Range Operator

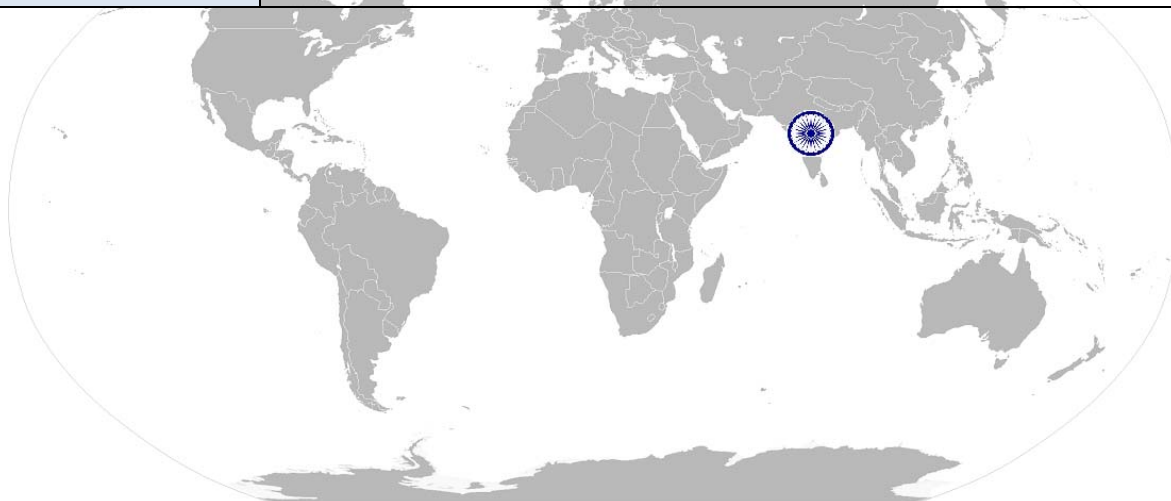
Unit Code	TSC/ N5104
Unit Title (Task)	Taking charge of shift and handing over shift to a Continuous Bleaching Range Operator
Description	This unit is about taking charge of shift from previous shift Continuous bleaching range operator and relieving the responsibilities to the next shift Continuous bleaching range operator
Scope	This unit/task covers the following: <ul style="list-style-type: none"> taking charge of shift from Continuous bleaching range operator handing over the shift to Continuous bleaching range operator
Elements	Performance Criteria
Taking charge of shift from Continuous bleaching range operator	<p>To be competent, you must be able to:</p> <p>PC1. come at least 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, production, spare, safety or any other specific instruction etc.</p> <p>PC4. understand the fabric being processed & process running on the machine</p> <p>PC5. ensure the technical details are mentioned on the job card display on the machine</p> <p>PC6. check for the availability of the spare trolley for unloading the fabric</p> <p>PC7. check the next batch to be processed is ready near the machine</p> <p>PC8. ensure the required chemicals are already weighed & prepared</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 materials are thrown under the machines or in the other work areas.</p> <p>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.</p> <p>PC12. ensure the wastes collection boxes are empty while taking charge of shift</p> <p>PC13. take over the shift from the outgoing Continuous bleaching range operator in a proper manner</p>
Handing over shift to Continuous bleaching range operator	<p>PC14. ensure in providing the details regarding fabric quality & the process running on the machine</p> <p>PC15. to provide all relevant information regarding the stoppages or breakdown in the machine, any damage to the fabric or machine.</p> <p>PC16. ensure the empty trolley is near the machine for unloading the fabric</p> <p>PC17. ensure the next lot to be processed is ready near the machine already stitched & arranged properly</p> <p>PC18. ensure the required chemicals for the next lot or next process are weighed & prepared</p> <p>PC19. get clearance from the incoming counterpart before leaving the work spot</p> <p>PC20. 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>PC21. ensure, the shift has to be properly handed over to the incoming shift operator</p>

TSC/ N5104 Taking charge of shift and handing over shift to Continuous Bleaching Range Operator

	<p>PC22. 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>PC23. collect the wastes from waste collection bags, weigh them and transport to storage area</p> <p>PC24. 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 processing unit</p> <p>KA2. safe working practices to be adopted in processing unit</p> <p>KA3. quality systems and other processes practiced in the processing unit</p> <p>KA4. reporting to the supervisor or higher authority in case of emergency</p> <p>KA5. color coding adopted for different products in the processing unit</p>
B. Technical Knowledge	<p>You need to know and understand:</p> <p>KB1. understanding the importance of quality & productivity</p> <p>KB2. understanding various defects in the fabric due to yarn, weaving or processing</p> <p>KB3. reasons for various defects in the fabric due to processing & their remedy</p> <p>KB4. process flow in a processing unit</p> <p>KB5. material flow in a processing unit</p> <p>KB6. importance of colour coding followed for different products</p> <p>KB7. guidelines for operating the continuous bleaching range</p> <p>KB8. the functions of different signal lamps</p> <p>KB9. guidelines for taking charge of shift from previous shift Continuous bleaching range operator</p> <p>KB10. guidelines for handing over the shift to the next shift Continuous bleaching range 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 in a continuous bleaching range</p>
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 and understand how to:
	SA2. comprehend written instructions
	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
B. Professional Skills	Problem Solving

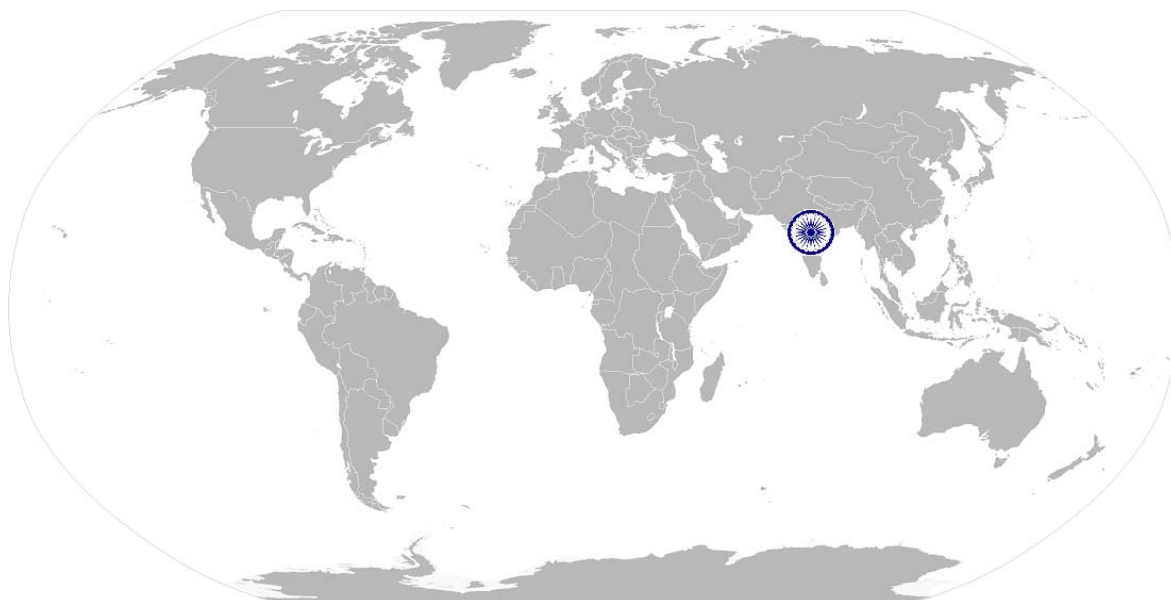
TSC/ N5104 Taking charge of shift and handing over shift to Continuous Bleaching Range Operator

	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
	Attention to Detail
	SB4. 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. You need to know and understand how to:
	SB8. Standard operating procedures for operating the machine
	SB9. Procedures for operating various valves & traps
	SB10. Procedures for operating different material handling tools and equipment
	SB11. Procedures to check the quality of processed fabric
	SB12. Maintain cleanliness at work place
	SB13. Procedure for segregating the different types of wastes
	SB14. Procedure for storing reusable wastes and weighing them

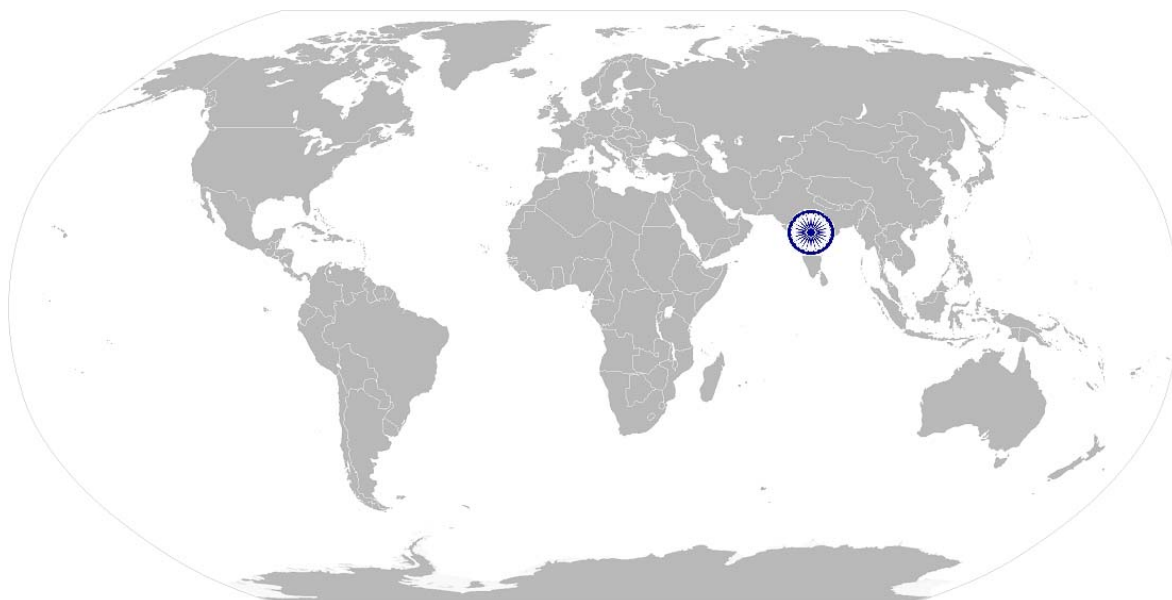


TSC/ N5104 Taking charge of shift and handing over shift to Continuous Bleaching Range Operator
NOS Version Control

NOS Code	TSC/ N5104		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Pre-Treatment	Next review date	01/03/16



National Occupational Standard



Overview

This unit is about operating the Continuous Bleaching Range Machine

TSC/ N5105

Operating the Continuous Bleaching Range Machine

Unit Code	TSC/N5105
Unit Title	Operating the Continuous Bleaching Range Machine
Description	This unit is about operating the Continuous Bleaching Range Machine
Scope	<p>This unit covers the following:</p> <ul style="list-style-type: none"> Carry out preparatory activities for operations of the machine Operating the machine for specified task as per work order Clean the machine on a regular basis & carryout preventive maintenance
Performance Criteria (PC) w.r.t. the Scope	
Element	Performance Criteria
	To be competent, you must be able to:
Carry out preparatory activities for operations of the machine	PC1. understand the task mentioned in the work order PC2. ensure that the machine and it's working area is clean PC3. clean the impregnator rolls & trough properly PC4. Ensure the suction slit is properly cleaned & free of any lint or loose threads PC5. clean all guide rolls in the reaction chambers & washing units PC6. ensure all guide rolls are free moving PC7. feed the fabric from the batch in the center of the machine PC8. ensure that all controls are working properly PC9. ensure fabric is crease-less and evenly fed onto the machine PC10. open steam valve & drain any condensate from the line PC11. Ensure good quality of steam & air pressure is available PC12. Ensure the safety devices are functioning properly PC13. Ensure to use personal protective equipments such as mask, gloves, ear plugs & gum boots
Operating the machine for specified tasks as per Work Order	PC14. know the operations of the machine PC15. read & understand the process being followed to do the task PC16. keep even tension on fabric throughout the process PC17. keep optimum pressure of the squeezer rolls to get good results PC18. set the required temp in all chambers PC19. open the steam valves & drain the condensate in all compartments PC20. dispense the chemicals in the mixing tank PC21. mix the chemicals properly & feed into the impregnator PC22. start the machine & take out fabric either on batch PC23. set the impregnator roller pressure to the optimum PC24. ensure the wiper roller are functioning properly PC25. ensure proper functioning of dosing pump & spraying of chemicals PC26. check that all control functions are working properly PC27. check ph& temp & other parameters in all compartments PC28. remove the air from the steamer PC29. set the machine speed & dwell time according to the fabric quality

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Operating the Continuous Bleaching Range Machine

	<p>PC30. set the temp in all washing chambers</p> <p>PC31. ensuring proper functioning of flow meter & level controller</p> <p>PC32. set the drying temp of all drying cylinders</p> <p>PC33. ensure proper fabric batching tension for even & creaseless fabric winding</p> <p>PC34. Ensure that all safety controls are functioning properly</p>
Clean the machine on a regular basis and carryout preventive maintenance activities	<p>PC35. keep the machine clean at all times</p> <p>PC36. follow the preventive maintenance schedule & ensure the machine is running smoothly</p> <p>PC37. check that all controls are functioning properly</p> <p>PC38. ensure enough supply of utilities such as water, air & steam for proper functioning of machine</p> <p>PC39. stop the machine in case of any abnormal sound & report the matter to supervisor or concerned person</p> <p>PC40. check for any leakages of water, steam or air</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 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. Technical Knowledge	<p>you need to know and understand:</p> <p>KB1. importance of discipline & punctuality</p> <p>KB2. importance of take over & handover in achieving quality & productivity</p> <p>KB3. any abnormal sound/ noise should be reported to the concerned/ supervisor</p> <p>KB4. report to the supervisor if there is any major defect in fabric</p> <p>KB5. type of fiber, yarn and fabric- piece dyed or for printing</p> <p>KB6. avoid any unnecessary tension on fabric</p> <p>KB7. ensure continuous feeding of fabric using scray/ j- box</p> <p>KB8. knowledge about various controls of machine</p> <p>KB9. avoiding unnecessary tension on the fabric</p> <p>KB10. knowledge of operation of various valves& traps</p> <p>KB11. knowledge of various chemicals for scouring & bleaching</p> <p>KB12. use of batching devices for fabric roll up</p> <p>KB13. checking of spraying of chemicals</p> <p>KB14. knowledge of process parameters for bleaching</p> <p>KB15. setting of various controller in machine</p>

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Operating the Continuous Bleaching Range Machine

	<p>KB16. use of batching devices & other material handling equipments</p> <p>KB17. spare the machine when it's due for maintenance to avoid breakdown of machine while working</p> <p>KB18. controls functions of the machine</p> <p>KB19. continuous supply of good quality air, steam & water for maximum output</p> <p>KB20. report the problem in the machine immediately to the concerned person</p> <p>KB21. arrest the leakages water, steam or air in the line</p>
skills (s)	
A. Core Skills/ Generic Skills	Reading skills
	You need to know and understand how to:
	SA1. comprehend written instructions
	SA2. read any application sent by other colleagues
	Oral communication (listening and speaking skills)
	You need to know and understand how to:
	SA3. communicate in local language orally
	SA4. communicate with supervisor appropriately
B. Professional Skills	SA5. talk to others to convey information effectively
	Problem solving
	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
	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
	SB7. make sure every kind of communication is error free
	You need to know and understand :
	SB8. knowledge about various functions of CBR machine
	SB9. know the various faults due to yarn or weaving in the fabric
	SB10. various fabric qualities / sort no. being processed
	SB11. width of fabric being processed
	SB12. length & weight of the batch under process
	SB13. use the correct tools for cleaning the machine
	SB14. use of edge guide sensors or centering device for even & straight feeding of fabric to the machine
	SB15. operation of various machine controls
	SB16. proper use of guide rolls & control sensors
	SB17. operation of various valves & traps
	SB18. basic operation of CBR machine
	SB19. knowledge of PLC control of machine
	SB20. various operations carried out on CBR machine
	SB21. proper use of tensioning devices to get even width of the fabric
	SB22. knowledge about required optimum mangle pressure for efficient bleaching

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Operating the Continuous Bleaching Range Machine

	<p>results</p> <p>SB23. basic knowledge about washing temp of various products</p> <p>SC1. drain the condensate first from steam line before opening the steam valve</p> <p>SC2. automatic or manual dosing of various chemicals</p> <p>SC3. basic knowledge of bleaching recipe for various products</p> <p>SC4. operations of various machine controls</p> <p>SC5. functions of level sensor, tension controller</p> <p>SC6. monitoring of various control parameters for efficient washing results</p> <p>SC7. operation of air vent valves</p> <p>SC8. knowledge about reaction time for various fabric qualities</p> <p>SC9. knowledge of various controls such as speed & fabric tension, level & pressure controller in steamer, liquid/ water flow meter</p> <p>SC10. knowledge of setting of drying temp</p> <p>SC11. use of proper cleaning tools such as blowers or vacuum cleaners</p> <p>SC12. drain out condensate or water from steam & air supply line before starting the machine</p>
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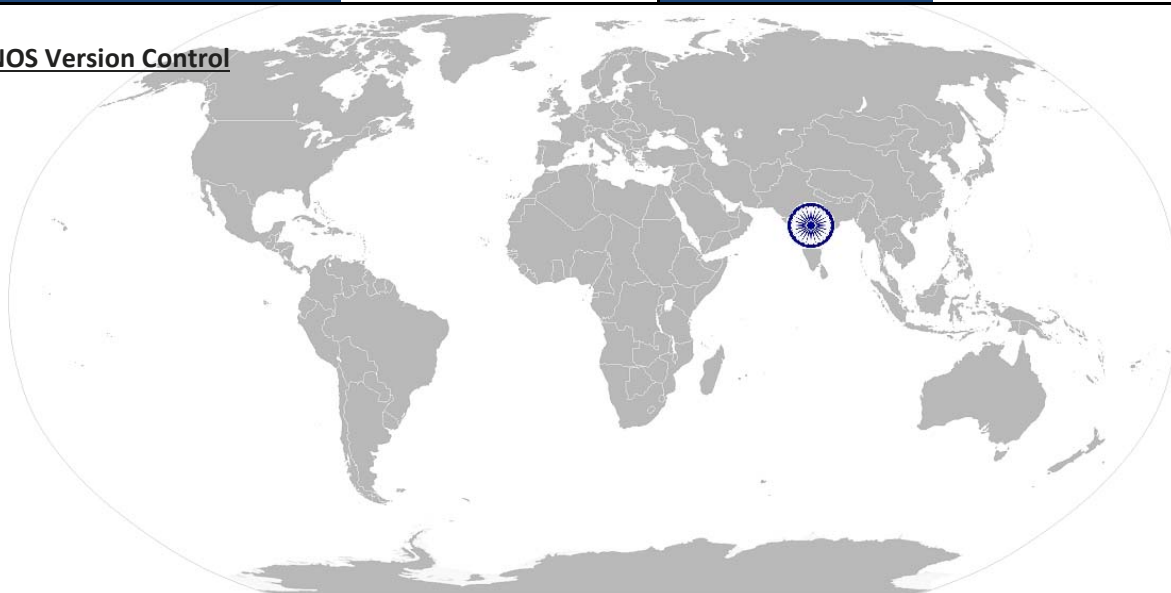


TSC/ N5105

Operating the Continuous Bleaching Range Machine

NOS Code	TSC/ N5105		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Pre-Treatment	Next review date	01/03/16

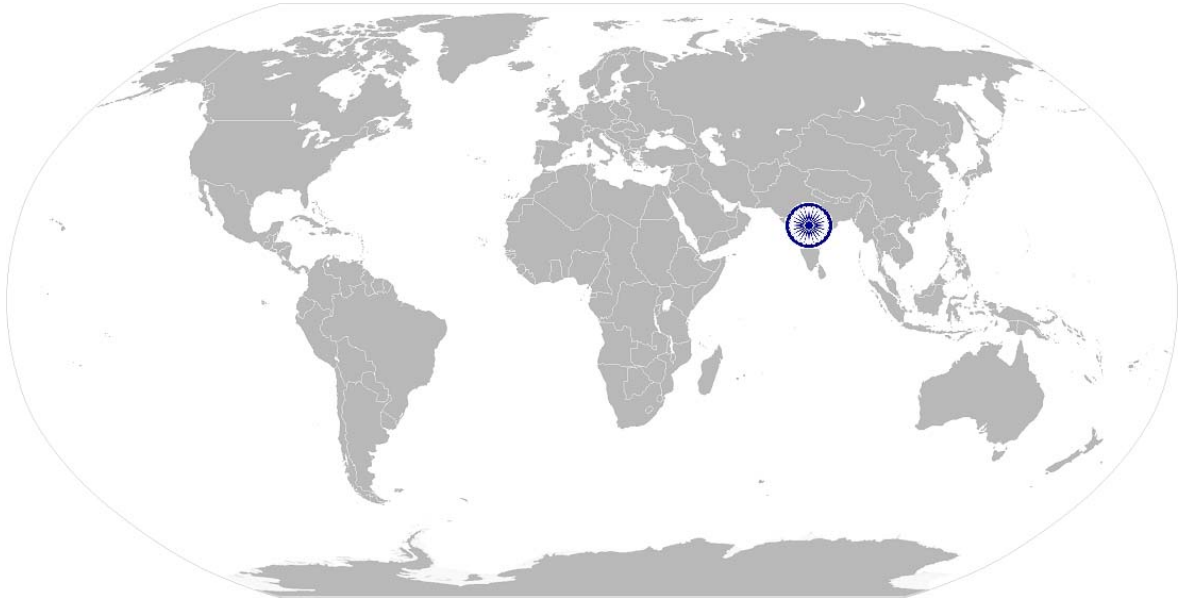
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TSC/ N5106

Checking the quality of Bleached Fabric

National Occupational Standard



Overview

TSC/ N5106

Checking the quality of Bleached Fabric

This unit is about checking the quality of bleached fabric & comparing with the standard

National Occupational Standard

Unit Code	TSC/N5106
Unit Title	Checking the quality of Bleached Fabric
Description	This unit is about checking the quality of Bleached fabric & comparing it with the standard
Scope	This unit covers the following: <ul style="list-style-type: none"> Taking out the sample after Bleaching & comparing it with the standard sample
Performance Criteria (PC) w.r.t. the Scope	
Element	Performance Criteria
Taking out the sample after Bleaching & comparing it with the standard	To be competent, you must be able to: <ul style="list-style-type: none"> PC1. taking out the sample after bleaching near the first joint PC2. compare the sample with the standard PC3. check the sample for absorbency PC4. check the sample for whiteness index PC5. take the sample to your supervisor if the sample is not matching to the standard for decision
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company/ organization and its processes)	You need to know and understand: <ul style="list-style-type: none"> KA1. personal hygiene and duty of care KA2. safe working practices and organisational procedures KA3. limits of your own responsibility KA4. ways of resolving problems within the work area KA5. the production process and the specific work activities that relate to the whole process KA6. the importance of effective communication with supervisors KA7. the lines of communication, authority and reporting procedures KA8. the organisation's rules, codes and guidelines (including time keeping) KA9. the company's quality standards KA10. the importance of complying with written instructions KA11. equipment operating procedures / supervisor's instructions
B. Technical Knowledge	You need to know and understand: <ul style="list-style-type: none"> KB1. cutting the required size of sample to avoid wastage KB2. should have good eye sight & analytical skills KB3. Procedure to check fabric absorbency KB4. skill to compare fabric whiteness KB5. take corrective action immediately to avoid waste of time & production loss KB6. use of various quality checking tools KB7. Knowledge about various quality standards KB8. Effect of various control parameters on bleaching quality of fabric
Skills (S)	
A. Core Skills/	Reading Skills

TSC/ N5106

Checking the quality of Bleached Fabric

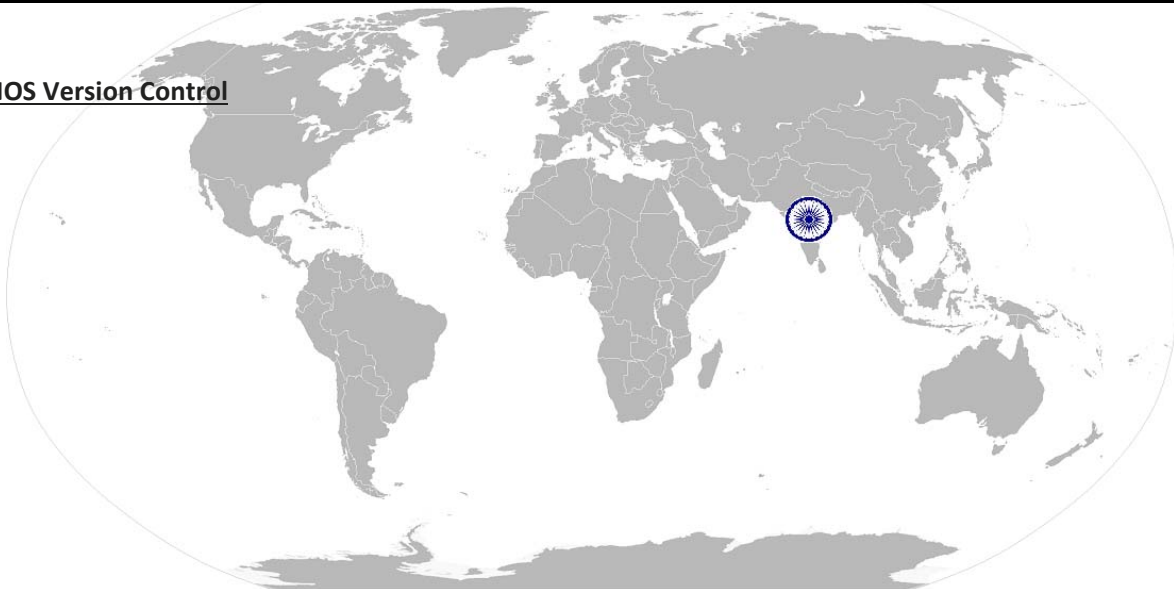
Generic Skills	You need to know and understand how to: SA1. comprehend written instructions SA2. read any application sent by other colleagues
	Oral Communication (Listening and Speaking skills)
	You need to know and understand how to: SA3. Communicate in local language orally SA4. Communicate with supervisor appropriately SA5. Talk to others 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. 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 SB7. make sure every kind of communication is error free
	You need to know and understand: SB8. good matching skills & knowledge about the fabric quality SB9. knowledge of absorbency properties of various fabrics SB10. knowledge of requirement of whiteness index for various fabric qualities SB11. adjustment of speed, temp, dwell time, chemical concentration or roller pressure depending upon the required effect on the fabric quality

TSC/ N5106

Checking the quality of Bleached Fabric

NOS Code	TSC/ N5106		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Pre-Treatment	Next review date	01/03/16

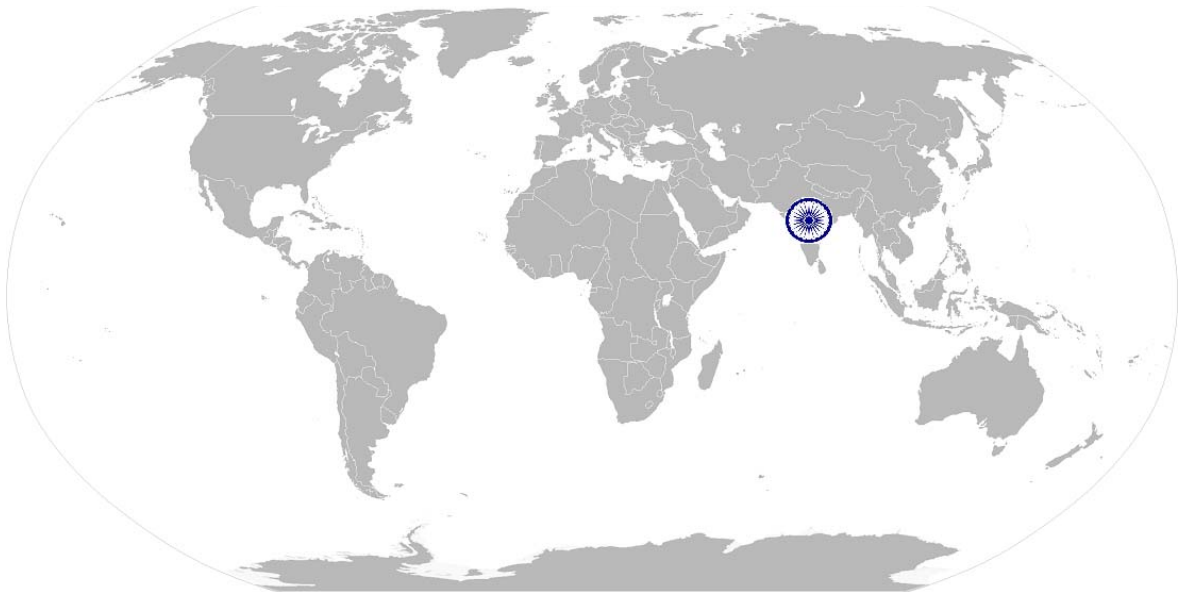
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TSC/ N9001

Maintaining work area, tools and machines

National Occupational Standard



Overview

TSC/ N9001

Maintaining work area, tools and machines

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

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 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>

TSC/ N9001

Maintaining work area, tools and machines

	<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. Work instructions and specifications and interpret them accurately</p> <p>KB2. Relation between work role and the overall manufacturing process</p> <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>
Skills (S)	
A. Core Skills/ Generic Skills	Reading Skills
	<p>You need to know and understand how to:</p> <p>SA1. Read and comprehend written instructions</p> <p>SA2. Read any application sent by other colleagues</p>
	Oral Communication (Listening and Speaking skills)
	<p>You need to know and understand how to:</p> <p>SA3. Communicate in local language orally</p> <p>SA4. Communicate with supervisor appropriately</p> <p>SA5. Talk to others to convey information effectively</p>
B. Professional Skills	Problem Solving
	<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>
	Attention to Detail
	<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

Maintaining work area, tools and machines

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

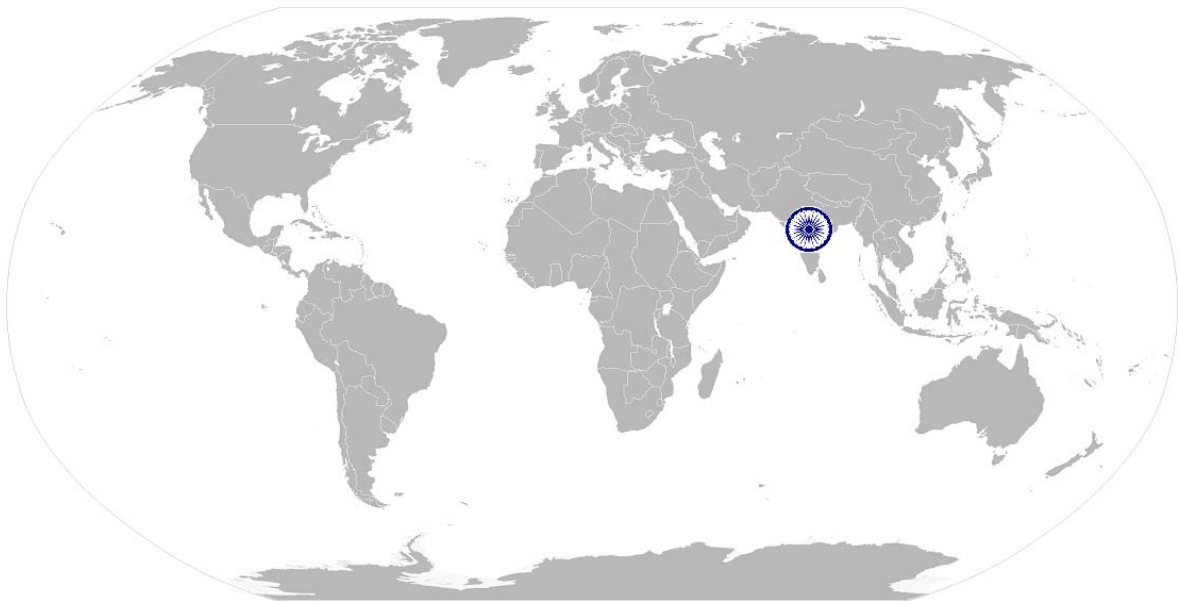
NOS Version Control



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

Unit Code	TSC/ N9002
Unit Title (Task)	Working in a team
Description	This unit is about working as a team member in the role of processing unit operator in the textile industry
Scope	This unit/task covers the following: <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 PC11. collaborate with colleagues performing the pre-required and post-required duty of processing unit tender / operator
Creative freedom	PC12. develop new ideas for work procedures PC13. 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 textile 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	You need to know and understand: 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 a machine
Skills (S)	
A. Core Skills/	Writing Skills
	You need to know and understand how to:

TSC/ N9002

Working in a team

Generic Skills	SA1. write clear and short sentences SA2. write daily work report SA3. write grievance complaint application
	Reading Skills
	You need to know and understand how to: SA4. 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
	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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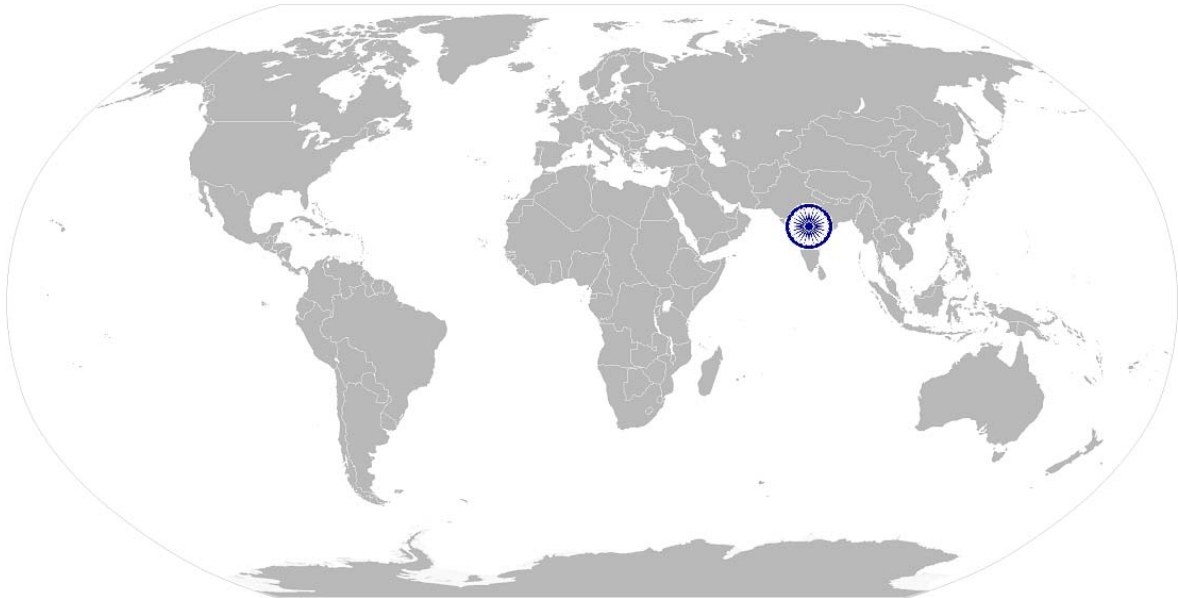
NOS Code	TSC/ N9002		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Pre-Treatment	Next review date	01/03/16



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

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	This unit/task covers the following: <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, ergonomic, chemical) of the industry</p> <p>PC20. recognise other possible security issues existing in the workplace</p>

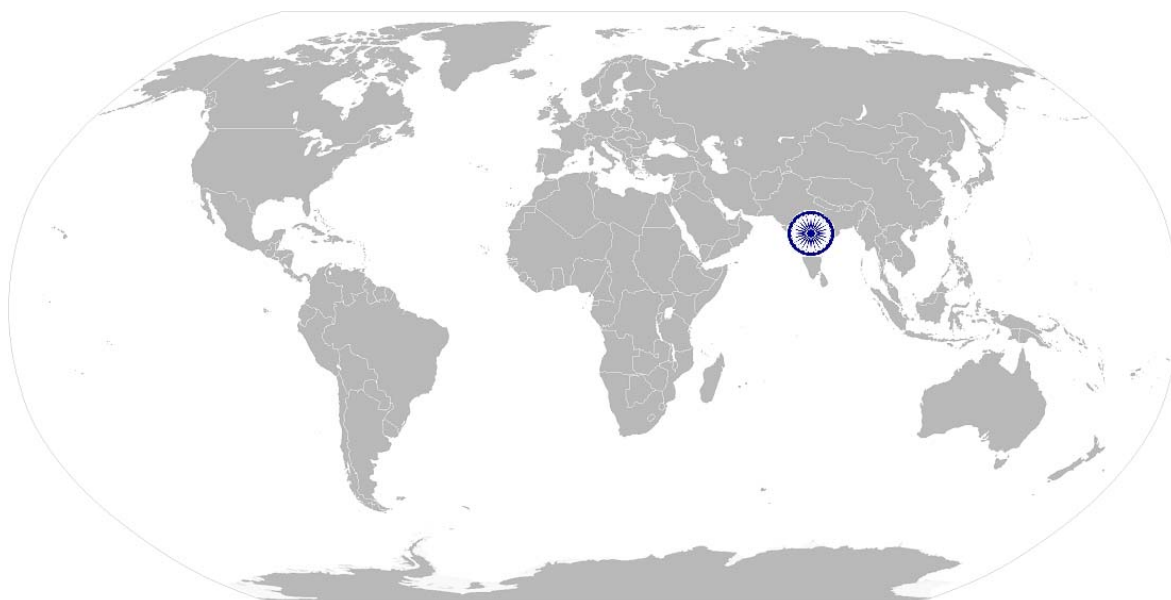
TSC/ N9003
Maintain health, safety and security at work place

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)	<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. Technical Knowledge	<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>
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>SA2. read and understand the company instructions</p> <p>SA3. read and understand the local language</p> <p>SA4. read and understand the safety guidelines</p>
	Oral Communication (Listening and Speaking skills)
	<p>SA1. listen to others attentively</p> <p>SA2. respond to emergencies, accidents or fire at the workplace</p> <p>SA3. evacuate the premises and help others in need while doing so</p> <p>SA4. the value of physical fitness, personal hygiene and good habits</p> <p>SA5. talk with others politely</p>
B. Professional Skills	Decision Making

TSC/ N9003

Maintain health, safety and security at work place

	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
	You need to know and understand :
	SB7. Maintaining neatness at work
	SB8. Procedure for reporting unwanted behavior



TSC/ N9003

Maintain health, safety and security at work place

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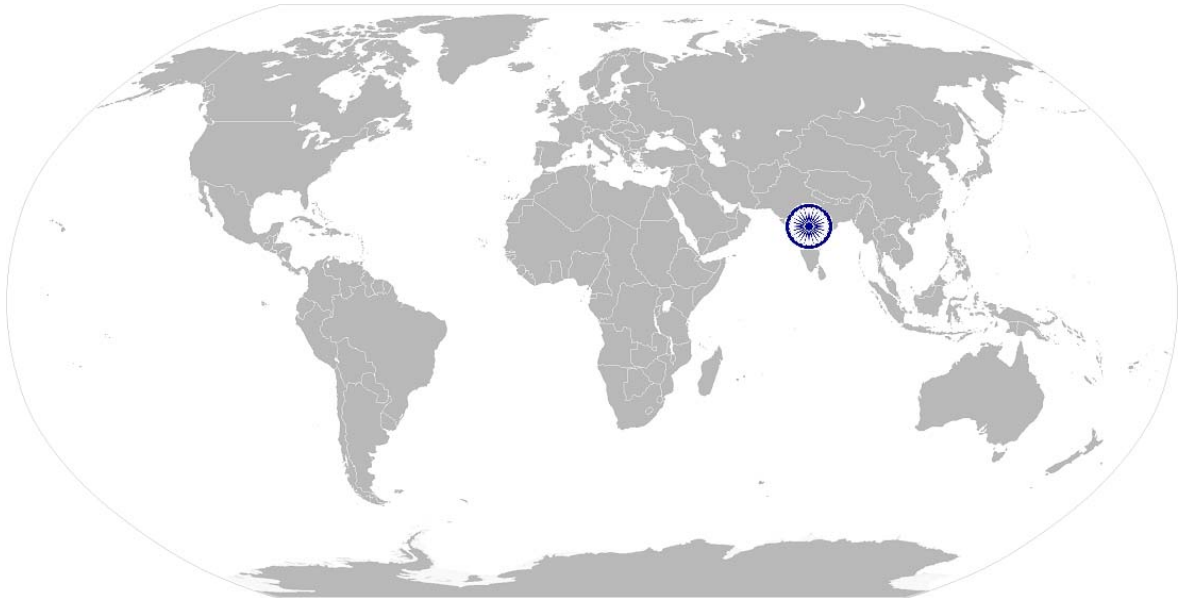
NOS Code	TSC/ N9003		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Pre-Treatment	Next review date	01/03/16



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

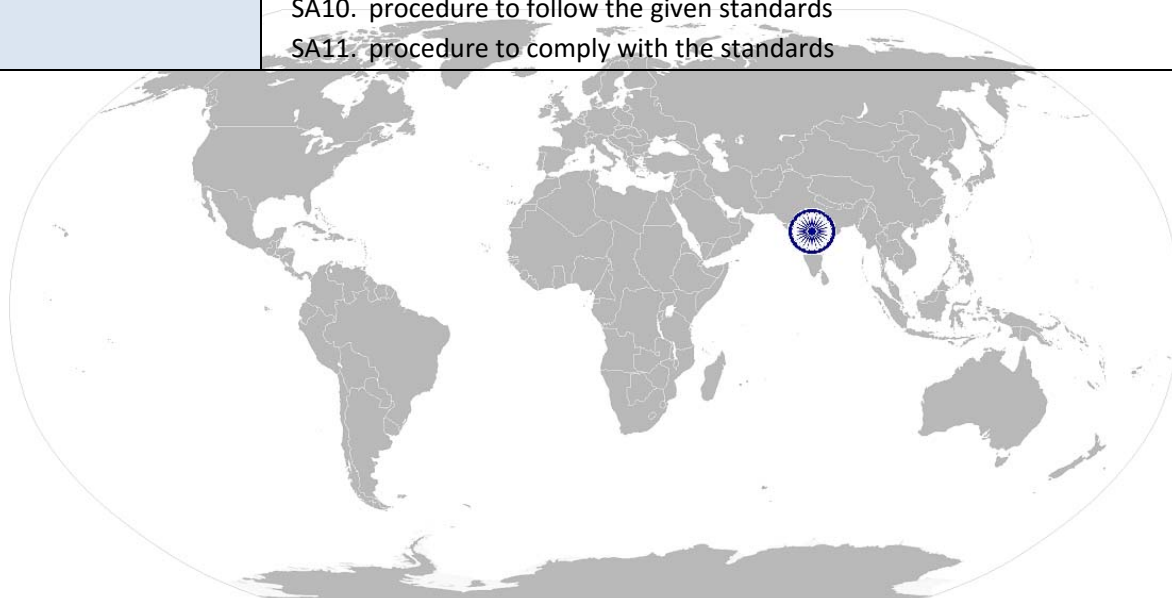
Comply with industry and organizational requirements

National Occupational Standard	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	This unit/task covers the following: <ul style="list-style-type: none"> self development team work organizational standards industry standards
	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)		
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. reporting to the supervisor or higher authority KA3. organisational standards KA4. industry standards
B. Technical Knowledge		KB1. process and material flow in a textile mill KB2. importance of complying with the standards KB3. guidelines for cleaning the various part of machine
Skills (S)		
A. Core Skills/ Generic Skills		Writing Skills
		You need to know and understand how to: SA1. write reports SA2. write clear and short sentences

TSC/ N9004

Comply with industry and organizational requirements

	Reading Skills
	You need to know and understand how to:
	SA3. read the local language SA4. read one more language than the local language SA5. read and comprehend the standards and rules
	Oral Communication (Listening and Speaking 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 :
	SA9. procedure of preparing the industry standards
	SA10. procedure to follow the given standards
	SA11. procedure to comply with the standards



TSC/ N9004 Comply with industry and organizational requirements

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



Assessment criteria

Job Role: Continuous Bleaching Range Operator
Qualification Pack: Continuous Bleaching Range 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/ N5104 Taking charge of shift and handing over shift to Continuous Bleaching Range Operator	PC1. come at least 10 - 15 minutes earlier to the work spot	33	2	0	2	0
	PC2. bring the necessary operational tools to the department		1	0	1	0
	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.		3	0	2	1
	PC4. understand the fabric being processed & process running on the machine		1	0	1	0
	PC5. ensure the technical details are mentioned on the job card display on the machine		1	0	1	0
	PC6. check for the availability of		1	0	1	0

	the spare trolley for unloading the fabric				
	PC7. check the next batch to be processed is ready near the machine	1	0	1	0
	PC8. ensure the required & chemicals are already weighed & prepared	1	0	1	0
	PC9. check the cleanliness of the machines & other work areas	1	0	1	0
	PC10. check whether any spare/raw material/ tool / yarn / any other material are thrown under the machines or in the other work areas.	1	0	1	0
	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 as that of the previous shift.	2	0	2	0
	PC12. ensure the wastes collection boxes are empty while taking charge of shift	2	0	2	0
	PC13. take over the shift from the outgoing operator in a proper manner	2	0	1	1
	PC14. ensure in providing the details regarding fabric quality & the process running on the machine	2	0	2	0
	PC15. provide all relevant information regarding the stoppages or breakdown in the machine, any damage to the fabric or machine.				
	PC16. ensure the empty trolley is near the machine for unloading	2	0	2	0

	the fabric					
	PC17 ensure the next lot to be processed is ready near the machine already stitched & arranged properly		1	0	1	0
	PC18. ensure the required & chemicals for the next lot or next process are weighed & prepared		1	0	1	0
	PC19. get clearance from the incoming counterpart before leaving the work spot		2	0	2	0
	PC20. 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		2	0	2	0
	PC21. ensure, the shift has to be properly handed over to the incoming shift operator		2	0	2	0
	PC22. 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		2	0	1	1
	PC23. collect the wastes from waste collection bags, weigh them and transport to storage area		1	0	1	0
	PC24. ensure the work spot is clean		1	1	1	0
			33	1	32	3
	Total	Weightage %		0%	94%	6%
2. TSC/N5105Operating the Continuous Bleaching Range Machine	PC1. report to his work place well before time to meet the previous shift operator	66	2	0	2	0
	PC2. discuss with him the process running on the machine		2	0	1	1
	PC3. check if the machine is running smoothly & has any breakdown in previous shift		2	0	2	0
	PC4. check for any quality issues in the fabric running on the machine		2	1	0	1

	PC5. understand the task mentioned in the work order	2	1	0	1
	PC6. ensure that the machine is clean	2	0	2	0
	PC7. clean the impregnator rolls & trough	1	0	1	0
	PC8. clean the suction slit properly	1	0	1	0
	PC9. clean all guide rolls in the reaction chambers & washing units	2	0	2	0
	PC10. ensure all guide rolls are free moving	1	0	1	0
	PC11. feed the fabric from the batch in the center of the machine	1	0	1	0
	PC12. ensure that all controls are working properly	2	0	2	0
	PC13. ensure fabric is crease-less and evenly fed onto the machine	1	0	1	0
	PC14. open steam valve & drain any condensate from the line	1	0	1	0
	PC15. know the operations of the machine	2	0	2	0
	PC16. read & understand the process being followed to do the task	2	1	0	1
	PC17. keep even tension on fabric throughout the process	2	0	2	0
	PC18. keep optimum pressure of the squeezer rolls to get good results	2	0	1	1
	PC19. set the required temp in all chambers	2	0	1	1
	PC20. open the steam valves & drain the condensate in all compartments	1	0	1	0
	PC21. dispense the chemicals in the mixing tank	2	0	2	0
	PC22. mix the chemicals properly & feed into the impregnator	3	1	1	1
	PC23. start the machine & take out fabric either on batch	1	0	1	0
	PC24. set the impregnator roller pressure to the optimum	2	0	2	0
	PC25. ensure the wiper roller are functioning properly	1	0	1	0
	PC26. ensure proper functioning of dosing pump & spraying of	1	0	1	0

	chemicals					
	PC27. check that all control functions are working properly		2	0	2	0
	PC28. check ph & temp & other parameters in all compartments		3	1	1	1
	PC29. remove the air from the steamer		1	0	1	0
	PC30. set the machine speed & dwell time according to the fabric quality		2	0	1	1
	PC31. set the temp in all washing chambers		1	0	1	0
	PC32. ensuring proper functioning of flow meter & level controller		2	0	2	0
	PC33. set the drying temp of all drying cylinders		1	0	1	0
	PC34. ensure proper fabric batching tension for even & creaseless fabric winding		1	0	1	0
	PC35. keep the machine clean at all times		2	0	2	0
	PC36. follow the preventive maintenance schedule & ensure the machine is running smoothly		2	0	2	0
	PC37. check that all controls are functioning properly		2	0	2	0
	PC38. ensure enough supply of utilities such as water, air & steam for proper functioning of machine		1	0	2	0
	PC39. stop the machine in case of any abnormal sound		1	0	1	0
	PC40. check for any leakages of water, steam or air		1	0	1	0
	PC41. Check steam, water and air pressure		1	0	0	0
			66	5	52	9
	Total	Weightage %		8%	79%	14%
3. TSC/ N5106 Checking the quality of Bleached Fabric	PC1. taking out the sample after bleaching	9	2	0	2	0
	PC2. compare the sample with the standard		2	0	2	0
	PC3. check the sample for absorbency		2	0	1	1
	PC4. check the sample for		2	0	1	1

	whiteness index					
	PC5. take the sample to your supervisor if the sample is not matching to the standard for decision		1	0	1	0
			9	0	7	2
	Total	Weightage %		0%	78%	22%
4. TSC/ N9001 Maintain work area, tools and machines	PC1. handle materials, machinery, equipment and tools with care and use them in the correct way	29	3	1	2	0
	PC2. use correct lifting and handling procedures		1	0	1	0
	PC3. use materials to minimize waste		2	1	1	0
	PC4. maintain a clean and hazard free working area		3	1	1	1
	PC5. maintain tools and equipment		3	1	2	0
	PC6. carry out running maintenance within agreed schedules		2	1	1	0
	PC7. carry out maintenance and/or cleaning within one's responsibility		1	0	1	0
	PC8. report unsafe equipment and other dangerous occurrences		1	1	0	0
	PC9. ensure that the correct machine guards are in place		2	1	1	0
	PC10. work in a comfortable position with the correct posture		3	1	2	0
	PC11. use cleaning equipment and methods appropriate for the work to be carried out		2	1	1	0
	PC12. dispose of waste safely in the designated location		2	0	2	0
	PC13. store cleaning equipment safely after use		2	0	2	0
	PC14. carry out cleaning according to schedules and limits of responsibility		2	1	1	0
			29	10	18	1
	Total	Weightage %		34%	62%	3%

5.TSC/ N9002 Working in a team	PC1. be accountable to the own role in whole process	26	2	1	1	0
	PC2. perform all roles with full responsibility		3	1	2	0
	PC3. be effective and efficient at workplace		4	1	2	1
	PC4. properly communicate about company policies		2	1	0	1
	PC5. report all problems faced during the process		1	1	0	0
	PC6. talk politely with other team members and colleagues		2	1	1	0
	PC7. submit daily report of own performance		1	0	1	0
	PC8. adjust in different work situations		2	0	2	0
	PC9. give due importance to others' point of view		2	1	0	1
	PC10. avoid conflicting situations		3	1	1	1
	PC11. develop new ideas for work procedures		2	1	1	0
	PC12. improve upon the existing techniques to increase process efficiency		2	1	1	0
			26	10	12	4
	Total	Weightage %		38%	46%	15%
6. TSC/ N9003 Maintain health, safety and security at workplace	PC1. comply with health and safety related instructions applicable to the workplace	71	5	1	3	1
	PC2. use and maintain personal protective equipment such as "ear plug", " nose mask ", " head cap" etc., as per protocol		5	1	3	1
	PC3. carry out own activities in line with approved guidelines and procedures		3	1	2	0
	PC4. maintain a healthy lifestyle and guard against dependency on intoxicants		2	1	0	1
	PC5. follow environment management system related procedures		3	1	2	0
	PC6. identify and correct (if possible) malfunctions in		3	1	1	1

	machinery and equipment					
	PC7. report any service malfunctions that cannot be rectified		2	1	0	1
	PC8. store materials and equipment in line with organisational requirements		2	0	1	1
	PC9. safely handle and remove waste		2	0	2	0
	PC10. minimize health and safety risks to self and others due to own actions		3	1	1	1
	PC11. seek clarifications, from supervisors or other authorized personnel in case of perceived risks		3	1	1	1
	PC12. monitor the workplace and work processes for potential risks and threat		2	0	2	0
	PC13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned		3	2	0	1
	PC14. report hazards and potential risks/ threats to supervisors or other authorized personnel		3	2	0	1
	PC15. participate in mock drills/ evacuation procedures organized at the workplace		3	1	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		4	1	2	1
	PC18. follow organisation procedures for shutdown and evacuation when required		2	0	2	0
	PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry		5	1	3	1
	PC20. recognise other possible security issues existing in the workplace		3	1	1	1
	PC21. recognise different measures to curb the hazards		3	1	2	0

	PC22. communicate the safety plan to everyone		3	2	0	1
	PC23. attach disciplinary rules with the implementation		2	1	1	0
			71	23	33	15
	Total	Weightage %		32%	46%	21%
7. TSC/ N9004 Comply with industry and organisational requirements	PC1. perform own duties effectively	39	4	1	2	1
	PC2. take responsibility for own actions		4	1	2	1
	PC3. be accountable towards the job role and assigned duties		3	1	1	1
	PC4. take initiative and innovate the existing methods		4	1	2	1
	PC5. focus on self-learning and improvement		3	1	1	1
	PC6. co-ordinate with all the team members and colleagues		3	1	2	0
	PC7. communicate politely		3	1	2	0
	PC8. avoid conflicts and miscommunication		3	1	2	0
	PC9. know the organisational standards		2	1	1	0
	PC10. implement them in your performance		3	1	2	0
	PC11. motivate others to follow them		3	1	2	0
	PC12. know the industry standards		2	1	0	1
	PC13. align them with organisation standards		2	0	2	0
			39	12	21	6
	Total	Weightage %		31%	54%	15%
	Total		276	61	175	40
Grand Total		276				