

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 – Package Dyeing Machine Operator

SECTOR: TEXTILE

SUB-SECTOR: PROCESSING

OCCUPATION: DYEING & PRINTING

REFERENCE ID: TSC/ Q 5203

ALIGNED TO: NCO-2004 / 8264.69

Brief Job Description: A Package Dyeing Machine Operator is responsible for scouring, bleaching and dyeing of fibre/ yarn. This job requires the individual to have thorough knowledge of process flow and material flow in a processing mill for yarn production and should know about the important functions and operations of a Package Dyeing machine.

Personal Attributes: A Package Dyeing Machine Operator should have good eyesight, matching skills and vision. He/she should also have good interpersonal skills.

Job Details	Qualifications Pack Code	TSC/Q5203		
	Job Role	Package Dyeing Machine 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	Dyeing & Printing	Next review date	01/03/16
	Job Role	Package Dyeing Machine Operator		
	Role Description	To carry out scouring, bleaching and dyeing of fibre or yarn using a Package Dyeing Machine, as specified under Job Order		
	NSQF level	4		
	Minimum Educational Qualifications	10 th standard, preferably		
	Maximum Educational Qualifications	N/A		
	Training (Suggested but not mandatory)	Three to six months of training in textile processing.		
	Experience	Preferably 1-2 years in textile processing		
	National Occupational Standards (NOS)	Compulsory: <ol style="list-style-type: none"> TSC/N5207 Taking charge of shift and handing over shift to Package Dyeing Machine Operator TSC/N5208 Operating the Package Dyeing Machine TSC/N5209 Checking the quality of dyed/bleached Yarn/Fiber 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: Not Applicable		
	Performance Criteria	As described in the relevant OS units		

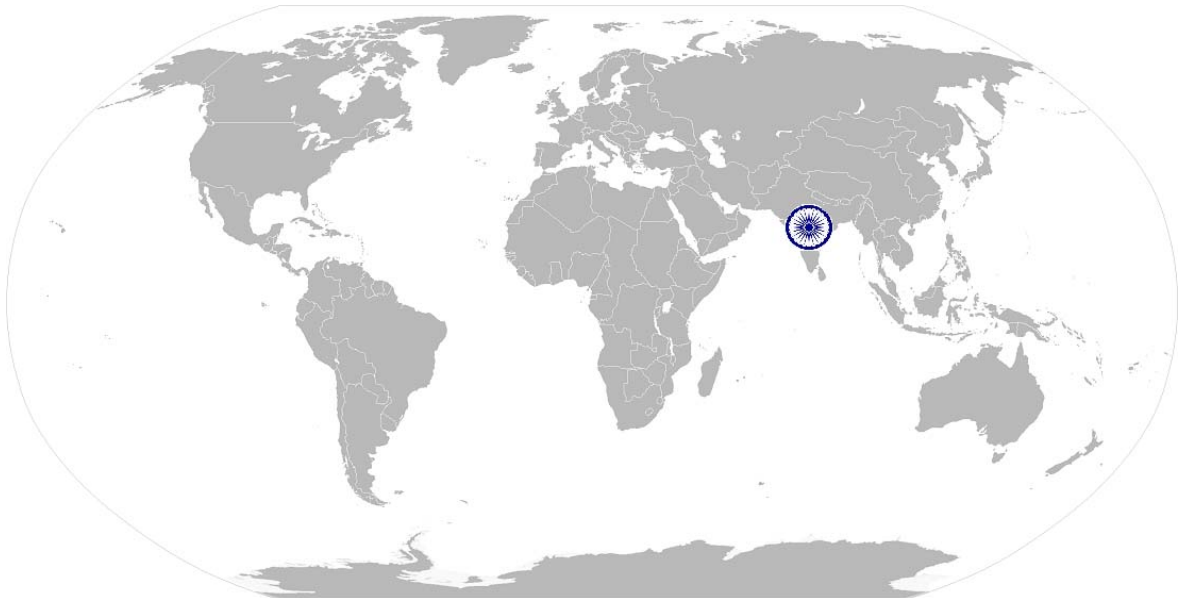
Table 1: Glossary of Key Terms

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.
Helpdesk	Helpdesk is an entity to which the customers will report their IT problems. IT Service Helpdesk Attendant is responsible for managing the helpdesk.
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/N 5207 Taking charge of shift and handing over shift to Package Dyeing Machine Operator

National Occupational Standard



Overview

This unit is about taking charge of shift and handing over shift to Package Dyeing Machine operator

TSC/N 5207 Taking charge of shift and handing over shift to Package Dyeing Machine Operator

National Occupational Standard

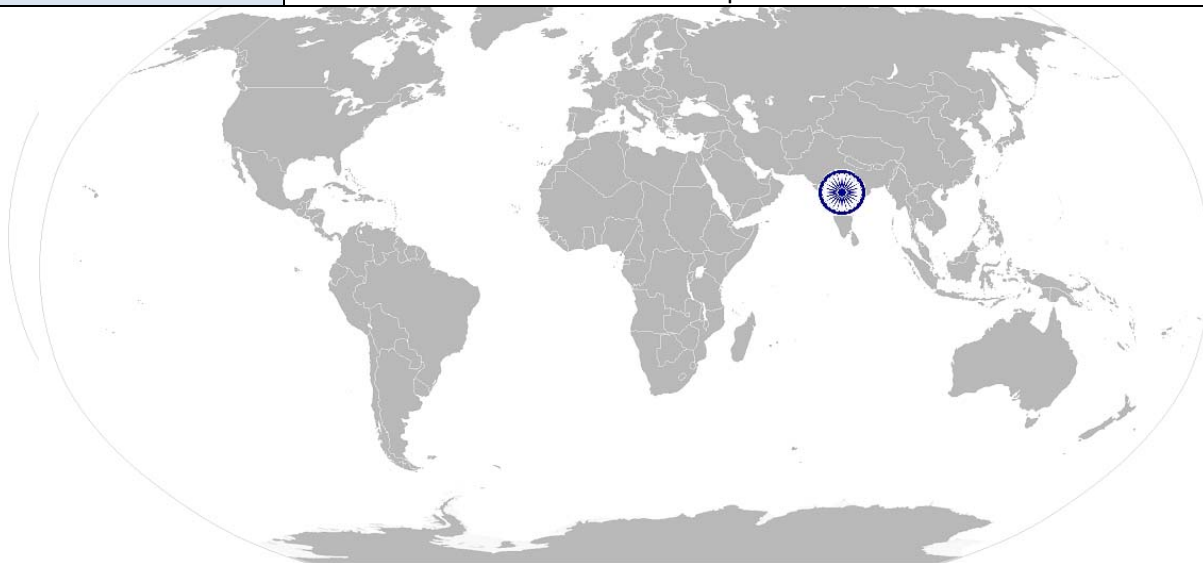
Unit Code	TSC/N 5207
Unit Title (Task)	Taking charge of shift and handing over shift to Package Dyeing Machine Operator
Description	This unit is about taking charge of shift from previous shift Package Dyeing machine operator and relieving the responsibilities to the next shift Package Dyeing machine operator
Scope	This unit/task covers the following: <ul style="list-style-type: none"> taking charge of shift from Package Dyeing machine operator handing over shift to Package Dyeing machine operator
Elements	Performance Criteria
Taking charge of shift from Package Dyeing machine operator	<p>To be competent, you must be able to:</p> <p>PC1. come at least 10 - 15 minutes earlier to the work place</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 fibre / yarn 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. should check for the availability of the spare trolley for unloading the yarn packages</p> <p>PC7. should check the next batch to be processed is ready near the machine</p> <p>PC8. must ensure the required dyes & chemicals are already weighed & prepared</p> <p>PC9. should check the cleanliness of the machines & other work areas</p> <p>PC10. question the previous shift operator for any deviation in the above and should bring the same to the knowledge of his/ her shift superior as well as that of the previous shift.</p> <p>PC11. take over the shift from the outgoing operator in a proper manner</p>
Handing over shift to Package Dyeing machine operator	<p>PC12. ensure in providing the details regarding yarn quality & the process running on the machine</p> <p>PC13. provide all relevant information regarding the stoppages or breakdown in the machine, any damage to the yarn or machine.</p> <p>PC14. ensure the empty trolley is near the machine for unloading the yarn packages</p> <p>PC15. ensure the next lot to be processed is ready near the machine</p> <p>PC16. ensure the required dyes & chemicals for the next lot or next process are weighed & prepared</p> <p>PC17. get clearance from the incoming counterpart before leaving the work spot</p> <p>PC18. 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</p>

TSC/N 5207 Taking charge of shift and handing over shift to Package Dyeing Machine Operator

	<p>shift</p> <p>PC19. ensure the shift has to be properly handed over to the incoming shift operator</p> <p>PC20. 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>PC21. collect the wastes from waste collection bags, weigh them and transport to storage area</p> <p>PC22. ensure the machine and its work place 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 procedure (SOP) and regulations in processing unit</p> <p>KA2. procedure followed to get the final output in processing unit</p> <p>KA3. safe working practices to be adopted in processing unit</p> <p>KA4. how to report to the supervisor or higher authority about any grievances faced</p>
B. Technical Knowledge	<p>You need to know and understand:</p> <p>KB1. the importance of quality & productivity</p> <p>KB2. various defects in the yarn due to spinning or processing</p> <p>KB3. reasons for various defects in the yarn 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. functions of various controls of the machine</p> <p>KB7. importance of material handling and types of material handling equipment being used</p> <p>KB8. importance of cleanliness at workplace</p> <p>KB9. functions and methodology for operating different material handling equipment</p> <p>KB10. the functions of various alarm signals</p> <p>KB11. guidelines for operating the machine</p> <p>KB12. guidelines for taking charge of shift from previous shift Package Dyeing machine operator</p> <p>KB13. guidelines for handing over the shift to the next shift Package Dyeing machine operator</p> <p>KB14. safety procedures to be followed while operating the machine</p>
Skills (S)	
A. Core Skills/ Generic Skills	Reading Skills
	<p>You need to know and understand how to:</p> <p>SA1. comprehend written instructions</p> <p>SA2. read any application sent by other colleagues</p>
	Oral Communication (Listening and Speaking skills)
	<p>You need to know and understand how to:</p> <p>SA3. communicate in simple language orally</p> <p>SA4. communicate with supervisor appropriately</p>

TSC/N 5207 Taking charge of shift and handing over shift to Package Dyeing Machine Operator

	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 how to:
	SB8. operate the machine SB9. operate various valves & traps SB10. operate different material handling tools and equipment SB11. check the quality of processed yarn / fibre SB12. maintain cleanliness at work place



TSC/N 5207 Taking charge of shift and handing over shift to Package Dyeing Machine Operator

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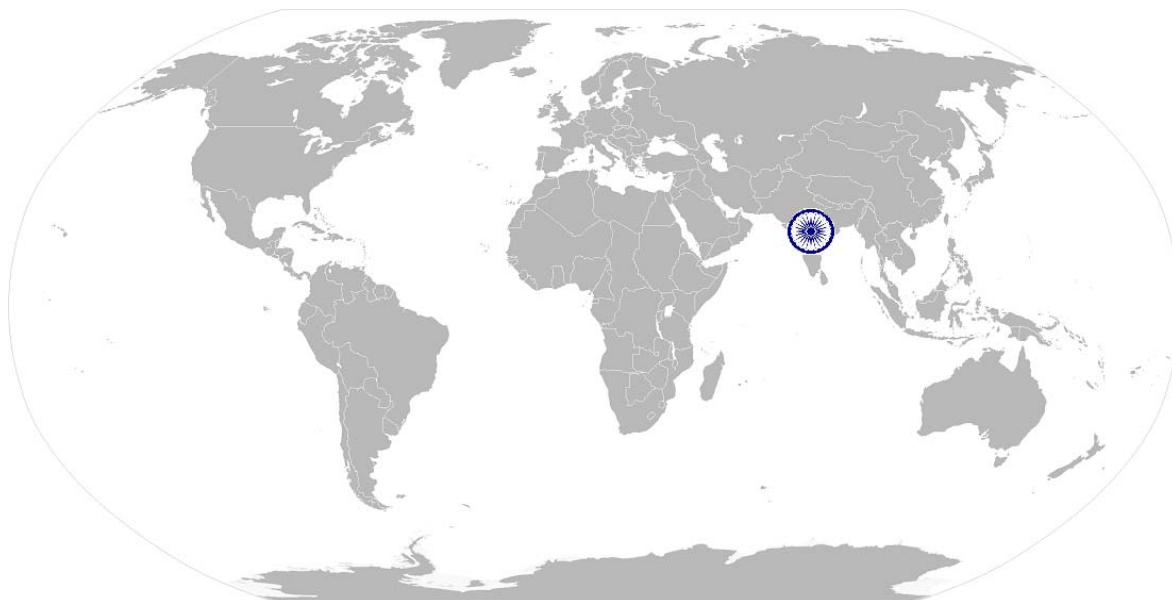
NOS Code	TSC/N 5207		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Dyeing & Printing	Next review date	01/03/16



TSC/N 5208

Operating the Package Dyeing Machine

National Occupational Standard



Overview

This unit is about operating the Package Dyeing Machine

TSC/N 5208

Operating the Package Dyeing Machine

National Occupational Standard

Unit Code	TSC/ N 5208
Unit Title (Task)	Operating the Packaging Dyeing Machine
Description	This unit is about operating the Packaging Dyeing Machine
Scope	This unit/task covers the following: <ul style="list-style-type: none"> carry out preparatory activities for operations in the machine operate 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	
Elements	Performance Criteria
Carry out preparatory activities for operations in the machine	To be competent, you must be able to: PC1. understand the task mentioned in the work order PC2. ensure that the machine is empty & clean PC3. receiving the material to be processed PC4. loading the material to be processed in the carrier PC5. closing the machine lid & ensuring the safety locks are in place PC6. fill & start the machine as per specified MLR PC7. prepare & inject the dyes / chemicals in the machine
Operate the machine for specified tasks as per Work Order	PC8. know the operations of the machine & the plc/control mechanism programs PC9. read & understand the process being followed to do the task PC10. check the ph, temp & other parameters during the process PC11. attend to the machine signals for manual intervention PC12. ensure the rate of heating/ cooling, final temp & hold time is as programmed
Clean the machine on a regular basis and carryout preventive maintenance activities	PC13. make sure the machine is kept clean at all times ,before loading, while running & after unloading the fabric PC14. follow the preventive maintenance schedule & ensure the machine is running smoothly PC15. ensure the right quality of water, steam & air is available
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company/ organization and its processes)	You need to know and understand: KA1. standard operating procedure (SOP) and regulations in processing unit KA2. procedure followed to get the final output in processing unit KA3. safe working practices to be adopted in processing unit KA4. how to report to the supervisor or higher authority about any grievances faced
B. Technical Knowledge	You need to know and understand: KB1. importance of discipline & punctuality KB2. importance of take over & handover in achieving quality & productivity KB3. report the matter to supervisor or concerned person in case of problem in machine

TSC/N 5208

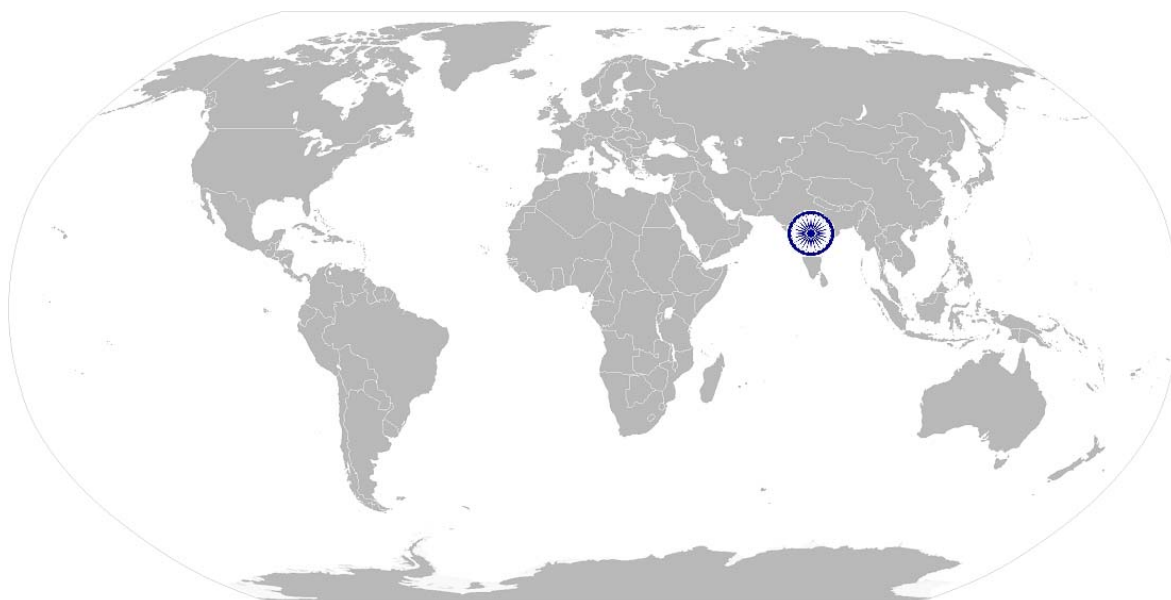
Operating the Package Dyeing Machine

	<p>KB4. uneven or patchy dyeing, barriness, colour specks etc.</p> <p>KB5. avoid delays & loss of production</p> <p>KB6. process of scouring, bleaching & dyeing</p> <p>KB7. knowledge about package weight & density</p> <p>KB8. operation of pneumatic & hydraulic press</p> <p>KB9. knowledge of injection/ dosing techniques</p> <p>KB10. operation of fill, drain, heating, cooling valves</p> <p>KB11. various processes</p> <p>KB12. how to check process parameters</p> <p>KB13. report to the supervisor in case of any problem</p> <p>KB14. avoid staining of any light shades after dark colour dyeing</p> <p>KB15. spare the machine when it's due for maintenance</p> <p>KB16. requirement of water, steam & air pressure for functioning of various operations</p>
Skills (S)	
A. Core Skills/ Generic Skills	Reading Skills
	You need to know and understand how to:
	SA1. read and comprehend written instructions
	SA2. read any application sent by other colleagues
B. Professional Skills	Oral Communication (Listening and Speaking skills)
	SA3. You need to know and understand how to:
	SA4. communicate in simple language orally
	SA5. communicate with supervisor appropriately
B. Professional Skills	SA6. 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
B. Professional Skills	SB2. apply problem-solving approaches in different situations
	SB3. refer anomalies to the supervisor
	SB4. seek clarification on problems from others
B. Professional Skills	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
B. Professional Skills	SB7. make sure every kind of communication is error free
	You need to know and understand :
	SB8. various processes
	SB9. operations & functions of package dyeing machine
B. Professional Skills	SB10. various faults & their correction during dyeing or bleaching
	SB11. the type of yarn or fibre being processed
	SB12. how to use the correct tools for cleaning the machine
	SB13. how to ensure uniform package weight & package density
B. Professional Skills	SB14. how to do uniform loading of material in all tubes, pressing the cone & locking it properly
	SB15. operation of various machine controls

TSC/N 5208

Operating the Package Dyeing Machine

- SB16. mixing & dissolving techniques of various dyes & chemicals
- SC1. process parameters such as heating/ cooling gradient, exhaustion/ fixation time, hold time etc.
- SC2. effects of control parameters on dyed fibre / yarn
- SC3. how to ensure that flow reversal is working & the differential pressure is within preset limits
- SC4. various signal for operator intervention like load, unload, sample check, drain etc.
- SC5. gradients & other parameters
- SC6. proper cleaning tools
- SC7. effects of water hardness on fabric dyeing



TSC/N 5208

Operating the Package Dyeing Machine

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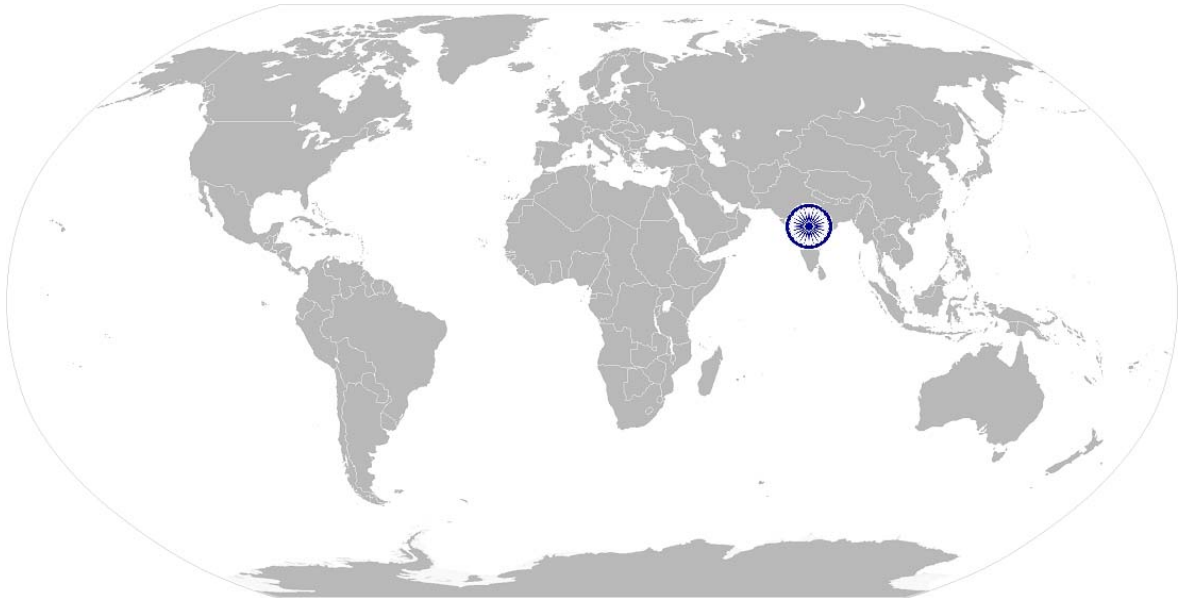
NOS Code	TSC/N 5208		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Dyeing & Printing	Next review date	01/03/16



TSC/N 5209

Check the quality of dyed/bleached Yarn/Fibre

National Occupational Standard



Overview

This unit is about to check the quality of dyed/bleached yarn/fibre

TSC/N 5209

Check the quality of dyed/bleached Yarn/Fibre

National Occupational Standard

Unit Code	TSC/N 5209
Unit Title (Task)	Check the quality of a dyed/bleached Yarn/Fiber
Description	This unit is about taking sample, developing it & comparing with the standard
Scope	This unit/task covers the following: <ul style="list-style-type: none"> taking out the sample after specified hold time developing, soaping, washing & drying the sample comparing the sample with the standard
Performance Criteria (PC) w.r.t. the Scope	
Elements	Performance Criteria
Taking out the sample after specified hold time	To be competent, you must be able to: PC1. take out the sample after hold time to avoid any delay PC2. close the lid & restart the machine after drawing the sample
Developing, soaping, washing & drying the sample	PC3. Develop the sample as per SOP techniques for various types of dyestuffs used in the process such as direct, reactive, vat, sulphur etc. PC4. Soap the sample as per SOP for soaping for various dyestuffs PC5. Dry the sample at clean & dust free place
Comparing the sample with the standard	PC6. compare the sample with the standard attached to the work order or in the master file PC7. 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: KA1. procedure followed to get the final output in processing unit KA2. standard operating procedure (SOP) and regulations in processing unit KA3. safe working practices to be adopted in processing unit KA4. how to report to the supervisor or higher authority about any grievances faced
B. Technical Knowledge	You need to know and understand how to: KB1. Use various mixing tools KB2. Handling of various dyes & chemicals KB3. Understand effects of various parameters such as time, temp, pH etc on dyeing KB4. Good eyesight & matching skills KB5. Understand various bleaching & dyeing recipes & their use
Skills (S)	
	Reading Skills
	You need to know and understand how to: SA1. read and 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

TSC/N 5209

Check the quality of dyed/bleached Yarn/Fibre

	SA4. communicate with supervisor appropriately SA5. talk to others to convey information effectively
C. 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. various dyestuffs used & the time required for exhaustion/ fixation of colour SB9. Methods and chemicals used for developing different types of dyestuffs SB10. Effect of chemicals/ detergents , time & temp of soaping /washing on the dyed fabric SB11. Good matching skills & knowledge about the colours



TSC/N 5209

Check the quality of dyed/bleached Yarn/Fibre

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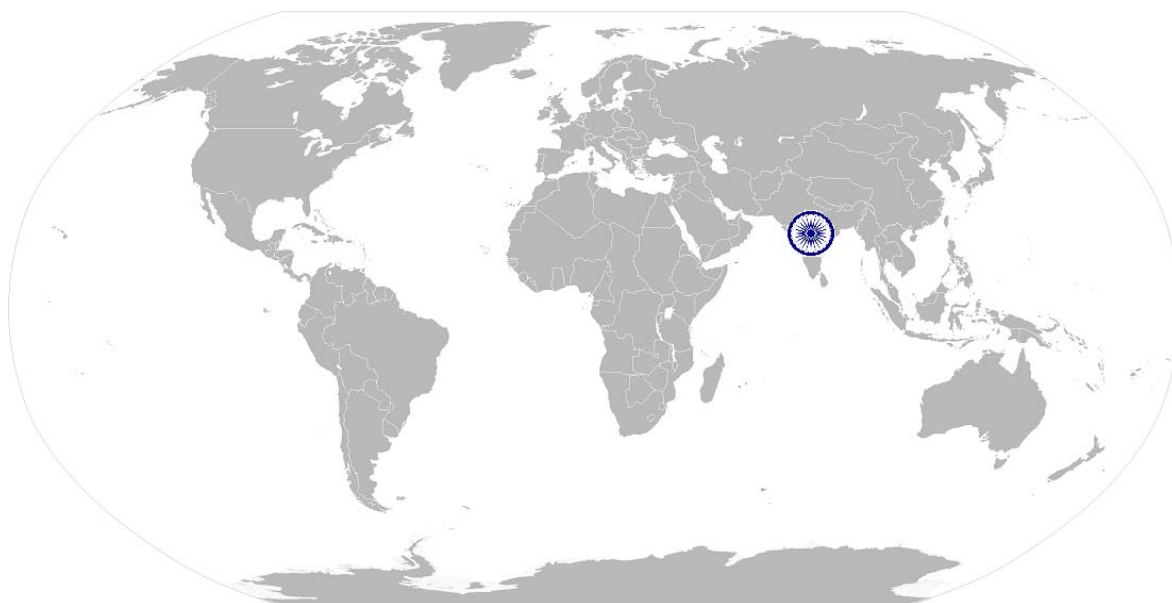
NOS Code	TSC/N 5209		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Dyeing & Printing	Next review date	01/03/16



TSC/ N9001

Maintaining work area, tools and machines

National Occupational Standard



Overview

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

TSC/ N9001

Maintaining work area, tools and machines

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/task 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> <p>KA10. the importance of complying with written instructions</p> <p>KA11. equipment operating procedures / supervisor's instructions</p>
KB1. 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>

TSC/ N9001

Maintaining work area, tools and machines

	<p>KB3. hazards likely to be encountered when conducting routine maintenance</p> <p>KB4. the importance of taking action when problems are identified</p> <p>KB5. different ways of minimising waste</p> <p>KB6. the importance of running maintenance and regular cleaning</p> <p>KB7. effects of contamination on products i.e. machine oil, dirt, foreign materials</p> <p>KB8. common faults with equipment and the method to rectify</p> <p>KB9. maintenance procedures</p> <p>KB10. different types of cleaning equipment and substances and their use</p> <p>KB11. safe working practices for cleaning and the method of carrying them out</p>
Skills (S)	
A. Core Skills/ Generic Skills	Reading Skills
	You need to know and understand how to:
	SA1. read and 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 how to:
	SB8. communicate effectively
	SB9. apply leadership skills wherever required
	SB10. take initiative at the right place
	SB11. understand the requirement to be creative

TSC/ N9001

Maintaining work area, tools and machines

NOS Version Control

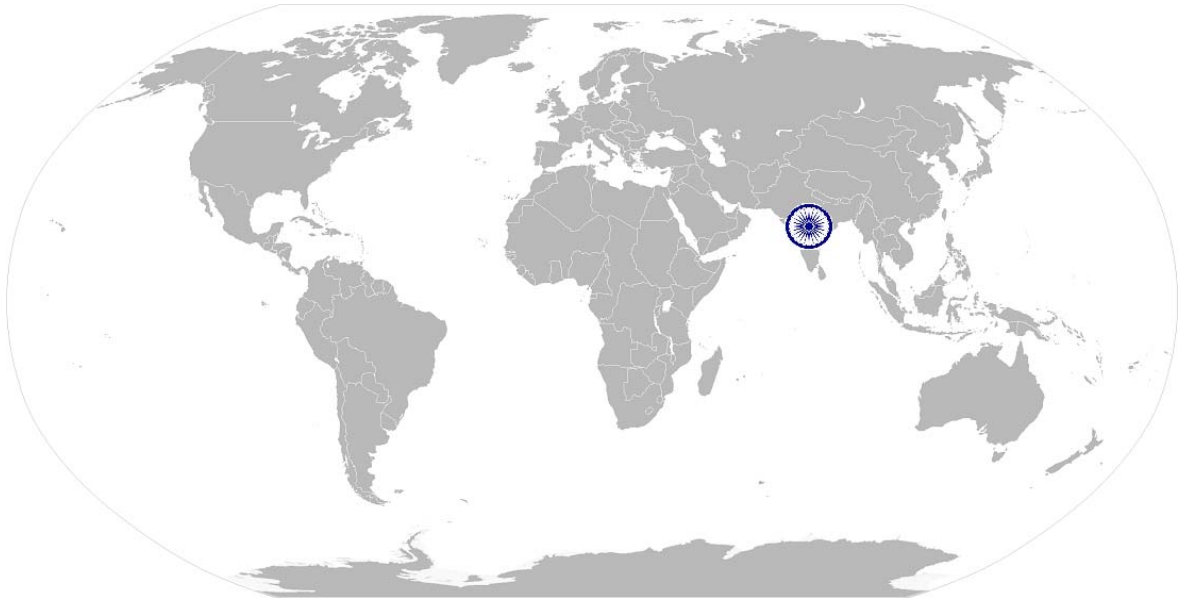
NOS Code	TSC/ N9001		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Dyeing & Printing	Next review date	01/03/16



TSC/ N9002

Working in a team

National Occupational Standard



Overview

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

TSC/ N9002

Working in a team

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 procedure (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. understand 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/	Writing Skills
	You need to know and understand how to:

TSC/ N9002

Working in a team

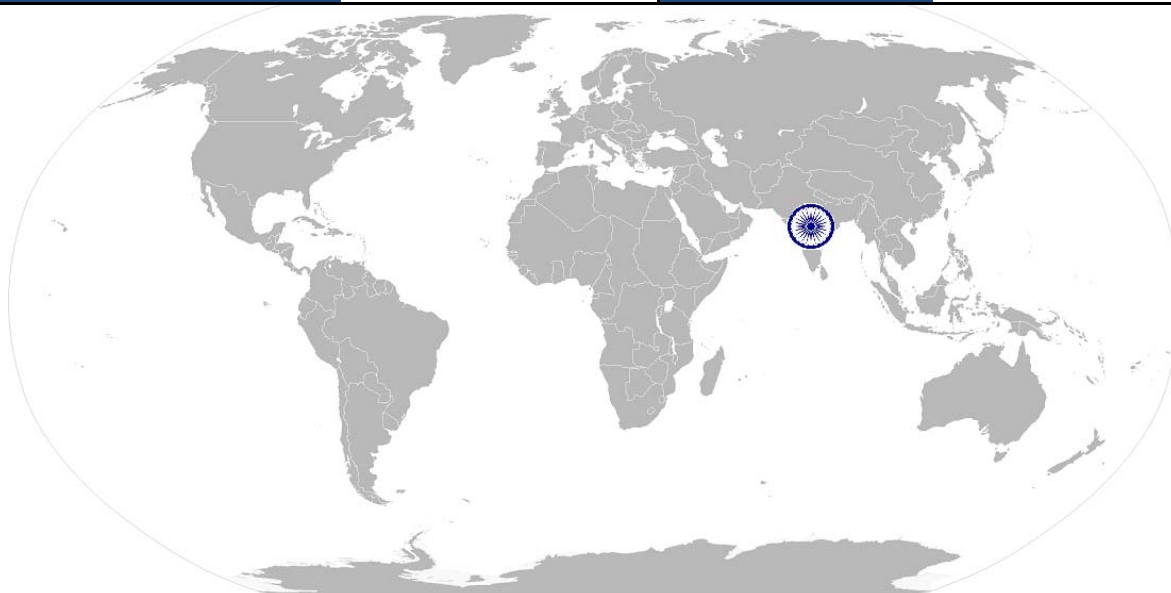
Generic Skills	SA1. write clear and short sentences SA2. write daily work report SA3. write grievance complaint application
	Reading Skills
	You need to know and understand how to: SA4. read and comprehend written instructions SA5. read any application sent by other colleagues
	Oral Communication (Listening 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
	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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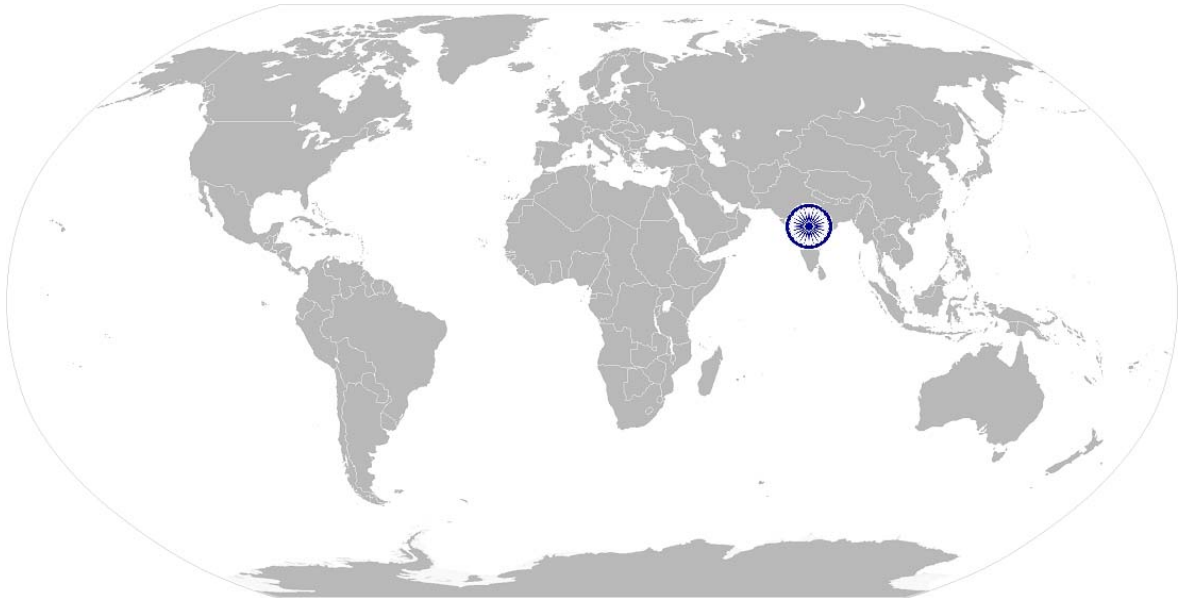
NOS Code	TSC/ N9002		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Dyeing & Printing	Next review date	01/03/16



TSC/ N9003

Maintain health, safety and security at work place

National Occupational Standard



Overview

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

TSC/ N9003

Maintain health, safety and security at work place

Unit Code	TSC/ N9003
Unit Title (Task)	Maintain health, safety and security at work place
Description	This unit provides performance criteria, knowledge & understanding and skills & abilities required to comply with health, safety and security requirements at the workplace and covers procedures to prevent, control and minimize risk to self and others.
Scope	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>PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry</p> <p>PC20. recognise other possible security issues existing in the workplace</p>
Planning the safety techniques	PC21. recognise different measures to curb the hazards

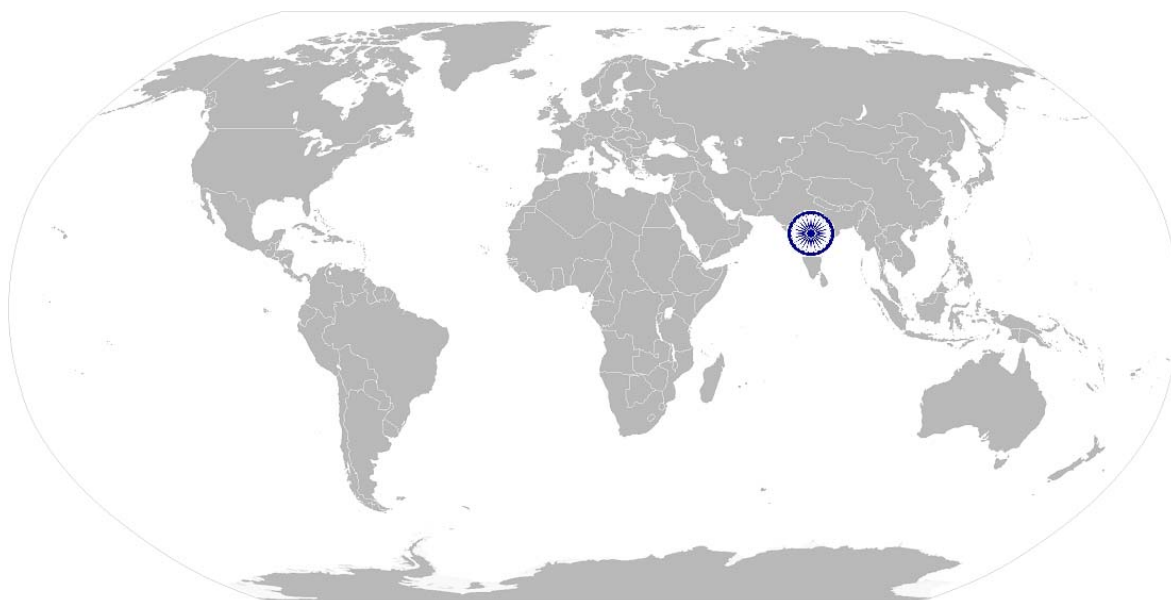
TSC/ N9003
Maintain health, safety and security at work place

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 procedure (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. 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
	You need to know and understand how to:
	SA1. write clear and short sentences
	Reading Skills
	SA2. You need to know how to:
	SA3. read and understand the company instructions SA4. read and understand the local language SA5. read and understand the safety guidelines
	Oral Communication (Listening and Speaking skills)
	SA6. listen to others attentively SA7. respond to emergencies, accidents or fire at the workplace SA8. evacuate the premises and help others in need while doing so SA9. the value of physical fitness, personal hygiene and good habits SA10. talk with others politely
B. Professional Skills	Decision Making
	SB1. identify correct safety measure for particular hazard

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	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. maintain neatness at work SB8. procedure for reporting unwanted behavior

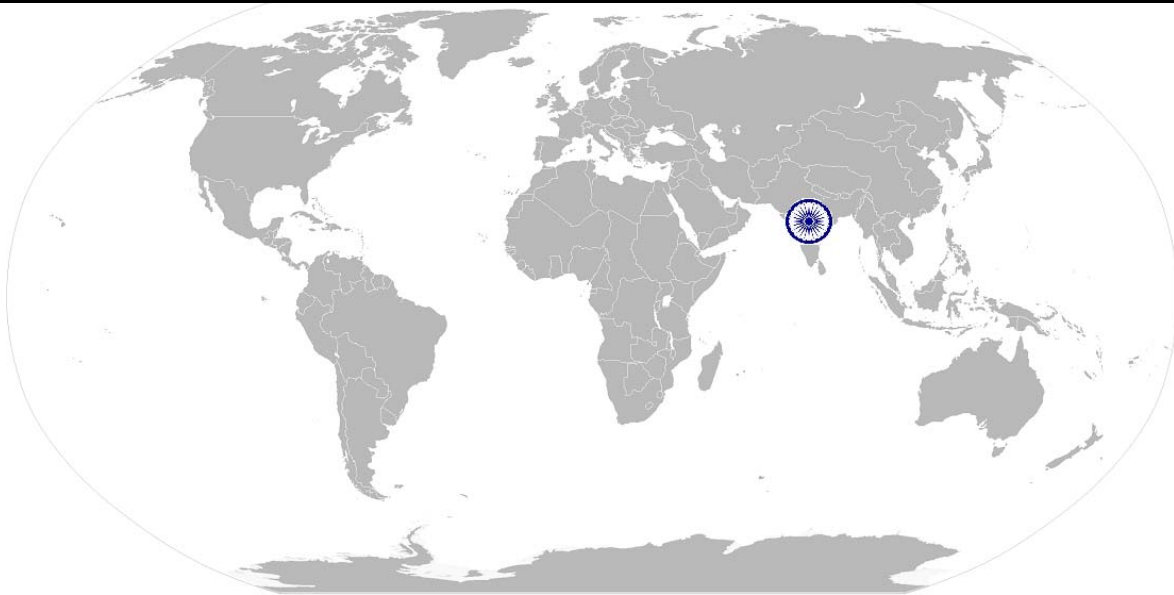


TSC/ N9003

Maintain health, safety and security at work place

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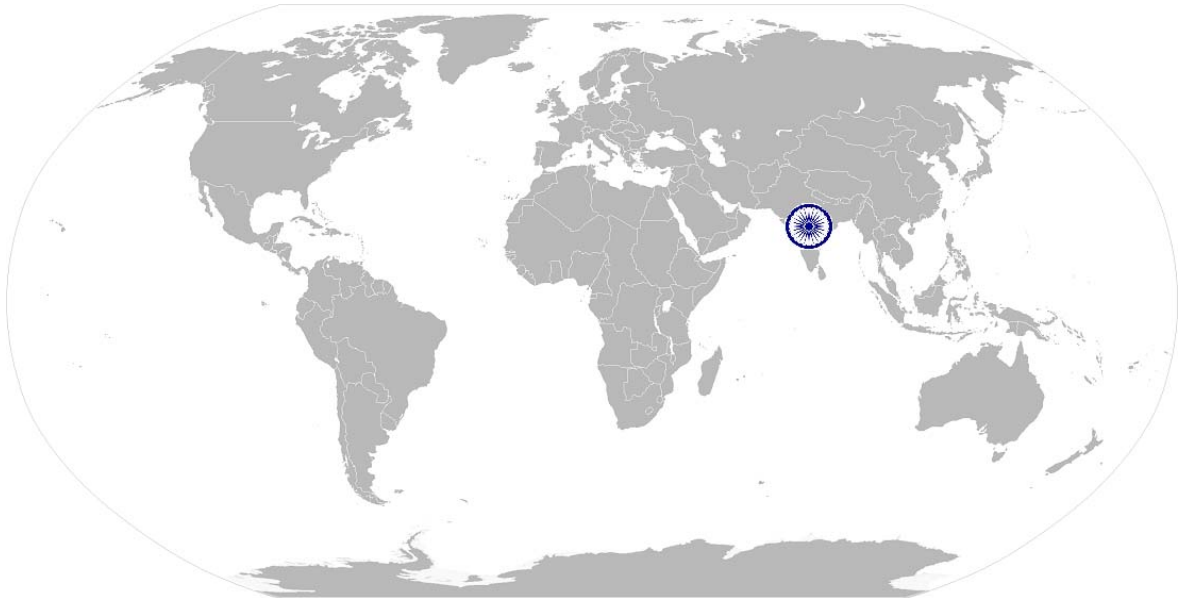
NOS Code	TSC/ N9003		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Dyeing & Printing	Next review date	01/03/16



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 procedure (SOP) and regulations in a textile mill KA2. reporting to the supervisor or higher authority KA3. knowledge of organisational standards KA4. knowledge of industry standards
B. Technical Knowledge		You need to know and understand: KB1. process and material flow in a textile mill KB2. importance of complying with the standards KB3. guidelines for cleaning the various part of machine
Skills (S)		
A. Core Skills/ Generic Skills		Writing Skills
		You need to know and understand how to: SA1. write reports

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Comply with industry and organizational requirements

	SA2. write in local language
	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

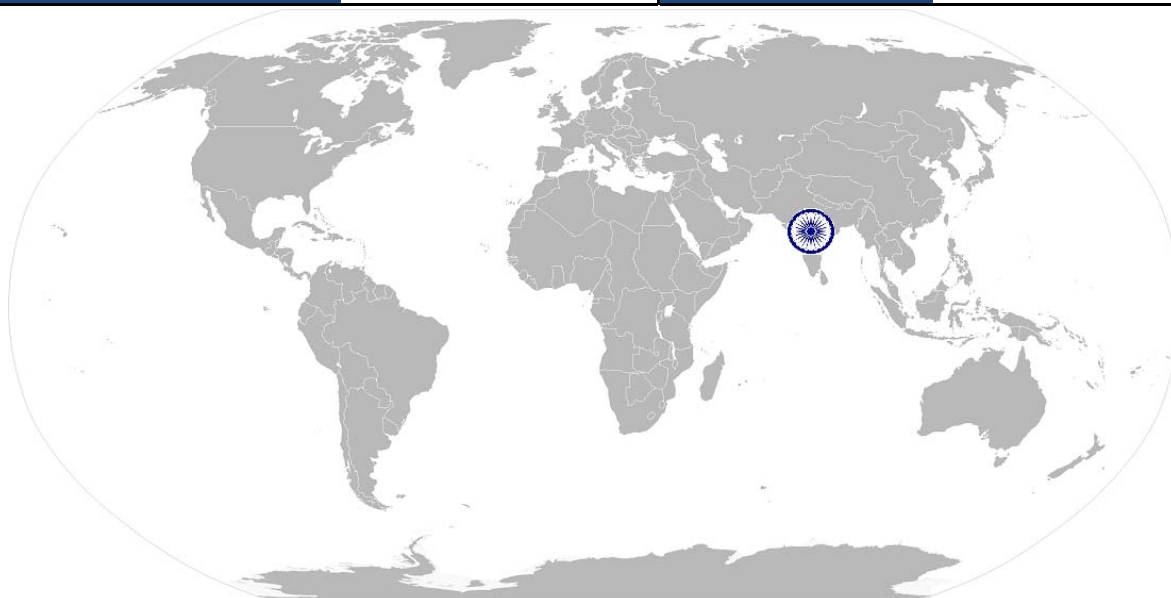


TSC/ N9004

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	Dyeing & Printing	Next review date	01/03/16



Assessment Criteria

Job Role: Package Dyeing Machine Operator Qualification Pack: Package Dyeing Machine 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/N 5207 Taking charge of shift and handing over shift to Package Dyeing Machine Operator	PC1. come at least 10 - 15 minutes earlier to the work place	38	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.		2	0	2	0
	PC4. understand the fibre / yarn being processed & process running on the machine		2	1	0	1
	PC5. ensure the technical details are mentioned on the job card display on the machine		3	1	1	1
	PC6. should check for the availability of the spare trolley for unloading the yarn packages		1	0	1	0
	PC7. should check the next batch to be processed is ready near the machine		1	0	1	0
	PC8. must ensure the required dyes & chemicals are already weighed & prepared		1	0	1	0
	PC9. should check the cleanliness of the machines & other work areas		2	0	2	0

PC10. 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.	PC11. take over the shift from the out going operator in a proper manner	2	0	2	0
	PC12. ensure in providing the details regarding yarn quality & the process running on the machine	1	0	1	0
	PC13. provide all relevant information regarding the stoppages or breakdown in the machine, any damage to the yarn or machine.	2	0	1	1
	PC14. ensure the empty trolley is near the machine for unloading the yarn packages	2	0	2	0
	PC15. ensure the next lot to be processed is ready near the machine	1	0	1	0
	PC16. ensure the required dyes & chemicals for the next lot or next process are weighed & prepared	2	0	2	0
	PC17. get clearance from the incoming counterpart before leaving the work spot	2	0	2	0
	PC18. 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
	PC19. ensure the shift has to be properly handed over to the incoming shift operator	2	0	2	0
	PC20. 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
	PC21. collect the wastes from waste collection bags, weigh them and transport to storage area	1	0	1	0
	PC22. ensure the machine and its work place is clean	2	0	2	0
	Total	38	2	32	4
	Weightage %		5%	84%	11%

PERFECTING SKILLS							
2. TSC/N 5208 Operating the Packaging Dyeing Machine	PC1. understand the task mentioned in the work order	28	2	1	0	1	
	PC2. ensure that the machine is empty & clean		2	0	2	0	
	PC3. receiving the material to be processed		1	0	1	0	
	PC4. loading the material to be processed in the carrier		1	0	1	0	
	PC5. closing the machine lid & ensuring the safety locks are in place		2	0	2	0	
	PC6. fill & start the machine as per specified MLR		2	0	1	1	
	PC7. prepare & inject the dyes / chemicals in the machine		3	0	2	1	
	PC8. know the operations of the machine & the plc/control mechanism programs		2	0	2	0	
	PC9. read & understand the process being followed to do the task		2	1	0	1	
	PC10. check the ph, temp & other parameters during the process		2	0	2	0	
	PC11.attend to the machine signals for manual intervention		1	0	1	0	
	PC12.ensure the rate of heating/ cooling, final temp & hold time is as programmed		2	0	1	1	
	PC13.make sure the machine is kept clean at all times ,before loading, while running & after unloading the fabric		2	0	2	0	
	PC14. follow the preventive maintenance schedule & ensure the machine is running smoothly		2	0	2	0	
	PC15.ensure the right quality of water, steam & air is available		2	0	2	0	
Total			28	2	21	5	
		Weightage %		7%	75%	18%	
3. TSC/N 5209 Check the quality of a dyed/bleached Yarn/Fiber	PC1. take out the sample after hold time to avoid any delay	16	2	0	1	1	
	PC2. close the lid & restart the machine after drawing the sample		2	0	2	0	
	PC3. Develop the sample as per SOP techniques for various types of dyestuffs used in the process such as direct, reactive, vat, sulphur etc.		4	2	0	2	
	PC4. Soap the sample as per SOP for soaping for various dyestuffs		3	1	1	1	

	PC5. Dry the sample at clean & dust free place		2	0	1	1
	PC6. compare the sample with the standard attached to the work order or in the master file		2	0	2	0
	PC7. take the sample to your supervisor if the sample is not matching to the standard for decision		1	0	1	0
	Total		16	3	8	5
		Weightage %		19%	50%	31%
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
	Total		29	10	18	1
		Weightage %		35%	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. collaborate with colleagues performing the pre-required and post-required duty of processing unit tender / operator		2	1	1	0
	PC12. develop new ideas for work procedures		1	0	1	0
	PC13. improve upon the existing techniques to increase process efficiency		1	1	0	0
	Total		26	10	12	4
		Weightage %		39%	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 machinery and equipment		3	1	1	1
	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
	Total		71	23	33	15
		Weightage %		32%	47%	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
	Total		39	12	21	6
		Weightage %		31%	54%	15%
	Grand Total		247	67	140	40