



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 – Washing Range Operator

SECTOR: TEXTILE

SUB-SECTOR: PROCESSING

OCCUPATION: WASHING & DRYING

REFERENCE ID: TSC/Q 5301

ALIGNED TO: NCO-2004 / 8264.10

Brief Job Description: A Washing Range Operator is responsible to do the specified job of washing of dyed or printed fabric with proper control of parameters to get the desired effect. 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 Washing Range machine

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





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Training T (Suggested but not mandatory) T Experience P Co 1 1 2 3 4 National Occupational Standards 5	/A		10 th standard, preferably		
National Occupational Standards	Three to six months of training in textile processing.				
1. 2. 3. 4. National Occupational Standards 5.	Preferably 1-2 years in textile processing				
7. O	 Compulsory: 1. TSC/N 5301 Taking charge of shift and handing over shift to operator 2. TSC/N 5302 Operating the Washing Range Machine 3. TSC/N 5303 Check the quality of Washed fabric 4. TSC/ N9001 Maintain work area, tools and machines 5. TSC/ N9002 Working in a team 6. TSC/ N9003 Maintain health, safety and security at workplace 7. TSC/ N9004 Comply with industry and organizational requirement Optional: Not Applicable 				
Performance Criteria A	<u>requirement</u> ptional:				

Job Details





Table 1: Glossary of Key Terms

	Keywords /Terms	Description	
Definitions	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.	
efil	Sub-sector	Sub-sector is derived from a further breakdown based on the	
Ō		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	Qualifications Pack comprises the set of OS, together with the	
	Pack(QP)	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.	



Acronyms



S						
	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	Knowledge and Understanding are statements which together specify the				
	Understanding	technical, generic, professional and organizational specific knowledge that				
		an individual needs in order to perform to the required standard.				
	Organizational	Organizational Context includes the way the organization is structured				
	Context	and how it operates, including the extent of operative knowledge				
		managers have of their relevant areas of responsibility.				
	Technical	Technical Knowledge is the specific knowledge needed to accomplish				
	Knowledge	specific designated responsibilities.				
	Core Skills/Generic	Core Skills or Generic Skills are a group of skills that are key to learning				
	Skills	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				
NSQFNational Skill Qualifications FrameworkNCONational Classifications of Occupation		National Skill Qualifications Framework				
		National Classifications of Occupation				
	To Be Determined					
	TSC	Textile Sector Skill Council				
	NSDC	National Skill Development Corporation				







Taking charge of shift and handing over shift to operator

National Occupational Standard



Overview

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







TSC/N 5301

Taking charge of shift and handing over shift to operator

Unit Code	TSC/N 5301		
Unit Title (Task)	Taking charge of shift and handing over shift to co-operator		
Description	This unit is about taking charge of shift from previous shift operator and relieving the responsibilities to the next shift operator		
Scope	 This unit/task covers the following: To take charge of shift from previous shift operator To hand over the shift to next shift operator 		
Elements	Performance Criteria		
Taking charge of shift	 To be competent, you must be able to: PC1. come at least 10 - 15 minutes earlier to the work place PC2. bring the necessary operational tools to the department PC3. meet the previous shift operator and discuss with him/ her regarding the issues faced by them with respect to the quality or production or spare or safety or any other specific instruction etc. PC4. understand the fabric being processed & process running on the machine PC5. ensure the technical details are mentioned on the job card display on the machine PC6. check for the availability of the spare trolley for unloading the fabric PC7. check the next batch to be processed is ready near the machine PC8. ensure the required dyes & chemicals are already weighed & prepared PC9. check the cleanliness of the machines & other work areas 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 that of the previous shift as well. 		
Handing Over Shift	 PC11. hand over the shift to the incoming operator in a proper manner PC12. ensure in providing the details regarding fabric quality & the process running on the machine PC13. provide all relevant information regarding the stoppages or breakdown in the machine, any damage to the fabric or machine. PC14. ensure the empty trolley is near the machine for unloading the fabric PC15. ensure the next lot to be processed is ready near the machine already stitched & arranged properly PC16. ensure the required dyes & chemicals for the next lot or next process are weighed & prepared PC17. get clearance from the incoming counterpart before leaving the work spot 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 operator PC19. ensure the shift has to be properly handed over to the incoming shift operator 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 PC21. collect the wastes from waste collection bags, weigh them and transport to storage area PC22. ensure the machine and its work place is clean 		







TSC	C/N 5301	Taking charge of shift and handing over shift to operator			
	Knowledge and Understanding (K)				
Α.	Organizational	You need to know and understand:			
	Context	KA1. standard operatining procedure (SOP) and regulations in a processing unit			
	(Knowledge of	KA2. safe working practices to be adopted in processing unit			
	the company/	KA3. quality systems and other processes practiced in the processing unit			
	organization and	KA4. reporting to the supervisor or higher authority in case of emergency			
	its processes)	KA5. color coding adopted for different counts in the processing unit			
Β.	Technical	KB1. understanding the importance of quality & productivity			
	Knowledge	KB2. understanding various defects in the fabric due to yarn, weaving or			
		processing			
		KB3. reasons for various defects in the fabric due to processing& their remedy			
		KB4. process flow in a processing unit			
		KB5. material flow in a processing unit			
		KB6. functions of various controls of the machine			
		KB7. importance of material handling and types of material handling equipment			
		being used			
		KB8. importance of cleanliness at workplace			
		KB9. functions and methodology for operating different material handling			
		equipment			
		KB10. understanding the functions of various alarm signals			
		KB11. guidelines for operating the machine			
		KB12. guidelines for taking charge of shift from previous shift operator			
		KB13. guidelines for handing over the shift to the next shift operator			
		KB14. safety procedures to be followed while operating the machine			
Ski	lls (S)				
Α.	Core Skills/	Writing Skills			
	Generic 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			
В.	Professional Skills	Problem Solving			
		You need to know and understand how to:			
		SB1. apply problem-solving approaches in different situations			
		SB2. refer anomalies to the supervisor			
		SB3. seek clarification on problems from others			
		Attention to Detail			
		You need to know and understand how to:			
		SB4. apply good attention to detail			
		SB5. check your work is complete and free from errors			
C.	Technical Skills	You need to know and understand:			
		SC1. operate the machine			







TSC/N 5301	Taking charge of shift and handing over shift to operator
	SC2. operate various valve & traps
	SC3. operate different material handling tools and equipment
	SC4. check the quality of processed fabric
	SC5. maintain cleanliness at work place







Taking charge of shift and handing over shift to operator

NOS Version Control

NOS Code	TSC/N 5301		
Credits (NSQF) [<i>OPTIONAL</i>]	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Washing & Drying	Next review date	01/03/16

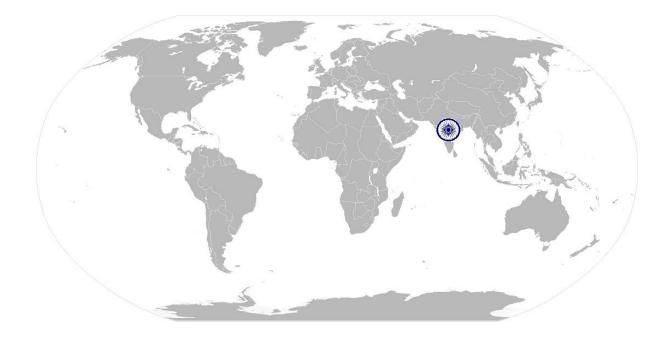




Operating the Washing Range Machine



National Occupational Standard



Overview

This unit is about operating the Washing Range Machine





Operating the Washing Range Machine

Unit Code	TSC/N 5302
Unit Title (Task)	Operating the Washing Range Machine
(Task) Description Scope Performance Criteria (PC) Elements Carry out preparatory activities for operations in	This unit is about operating the Washing Range Machine
Scope	This unit/task covers the following:
	 Carry out preparatory activities for operations in the machine
	 Operate the machine for specified tasks as per work order
	 Clean the machine on a regular basis and carryout preventive maintenance
	activities
Performance Criteria (PC)	
Elements	Performance Criteria
Carry out preparatory	To be competent, you must be able to:
the machine	PC2. ensure that the machine is empty & clean
5	PC3. feed the fabric from the batch or trolley in the center of the machine
the machine Operate the machine for	PC4. ensure fabric is crease-less and evenly fed onto the machine
Operate the machine for	PC5. know the operations of the machine
specified tasks as per	PC6. read & understand the process being followed to do the task
Work Order	PC7. keep even tension on fabric throughout the process
	PC8. keep optimum pressure of the squeezer rolls to get good results
	PC9. set the required temp in all chambers
	PC10. open the steam valves & drain the condensate in all compartments
	PC11. dispense the chemicals in the chambers
	PC12. start the machine & take out fabric either on batch or trolley
	PC13. check ph & temp & other parameters in all compartments
Clean the machine on a regular basis and carryout	PC14. make sure the machine is kept clean at all times , before loading, while running & after unloading the fabric
preventive maintenance	PC15. follow the preventive maintenance schedule & ensure the machine is
activities	running smoothly
	PC16. check that all controls are functioning properly
	PC17. clean & empty out the dust collector as & when required
	PC18. stop the machine in case of any abnormal sound
	PC19. ensure enough supply of utilities such as water, air & steam for proper
	functioning of machine
Knowledge and Understa	
A. Organizational	You need to know and understand:
Context	KA1. standard operatining procedure (SOP) and regulations in processing unit
(Knowledge of the	
company/	KA3. safe working practices to be adopted in processing unit
organization and	KA4. how to report to the supervisor or higher authority about any grievances
its processes)	faced
B. Technical	You need to know and understand:



NOS National Occupational Standards



TSC/N 5302	Operating the Washing Range Machine				
Knowledge	KA1. importance of discipline & punctuality KA2. importance of take over & handover in achieving quality & productivity				
	KA2. Importance of take over a flandover in achieving quality a productivity KA3. any abnormal sound/ noise should be reported to the concerned/				
	supervisor				
	KA4. how to report to the supervisor if there is any major defect in machine				
	KA5. type of fiber, yarn and fabric- yarn dyed, piece dyed or printed				
	KA6. ensure continuous feeding of fabric using scray/ j- box				
	KA7. various controls of machine				
	KA8. washing of dyed fabric				
	KA9. washing of printed fabric KA10. how to avoid unnecessary tension on the fabric				
	KA10. How to avoid diffecessary tension of the fabric KA11. washing of dyed or printed fabric – reactive, vat or disperse				
	KA12. operation of various valves, traps				
	KA13. various chemicals for washing of vat, reactive or disperse dyed or printed				
	fabrics				
	KA14. use of batching devices for fabric roll up				
	KA15. process parameters for washing of dyed & printed fabric				
	KA16. cleaning of machine after washing dark colours				
	KA17. how to spare the machine when it's due for maintenance to avoid				
	breakdown of machine while working				
	KA18. controls functions of the machine				
	KA19. continuous supply of good quality air, steam & water for maximum output				
Skills (S)					
	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				
	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				







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ERFECTING SKILLS	
TSC/N 5302	Operating the Washing Range Machine
D. Technical Skills	You need to know and understand :
	SC1. various functions of washing range machine
	SC2. various faults due to yarn, weaving, dyeing or printing in the fabric
	SC3. quality/ sort no.
	SC4. width of fabric
	SC5. length & weight of the batch
	SC6. how to use correct tools for cleaning the machine
	SC7. use of edge guide sensors or centering device for even & straight feeding of fabric to the machine
	SC8. proper use of guide rolls & control sensors
	SC9. basic operation of washing range machine
	SC10. plc control of machine
	SC11. various operations carried out on washing range
	SC12. proper use of tensioning devices to get even width of the fabric
	SC13. requirement of optimum mangle pressure for efficient washing processes
	SC14. washing temp of various products
	SC15. how to drain the condensate first from steam line before opening the
	steam valve
	SC16. automatic or manual dosing of various chemicals
	SC17. how to monitor various control parameters for efficient washing results
	SC18. use of proper cleaning tools such blowers or vacuum cleaners
	SC19. how to drain out condensate or water from steam & air supply line before starting the machine



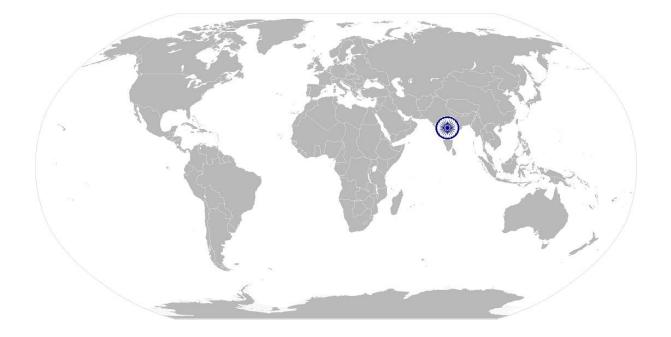




Operating the Washing Range Machine

TSC/N 5302 NOS Version Control

NOS Code	TSC/N 5302		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Washing & Drying	Next review date	01/03/16



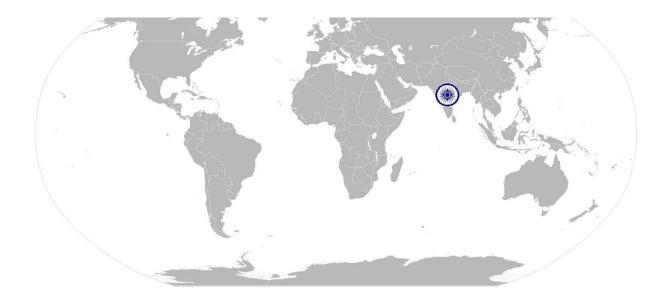




N·S·D·C National Skill Development Corporation

Checking the Quality of Washed Fabric

National Occupational Standard



Overview

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







National Occupational Standard

Checking the Quality of Washed Fabric

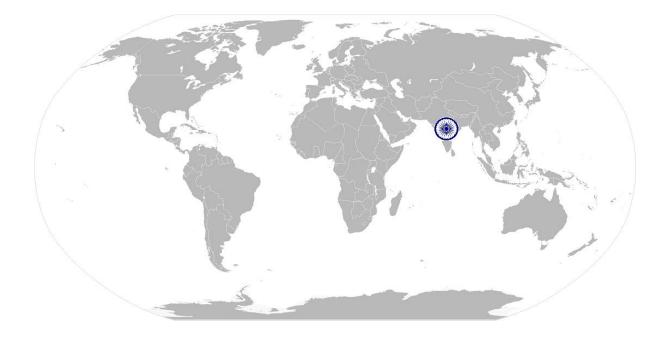
Unit Code	TSC/N 5303	
Unit Title	Checking the quality of Washed fabric	
(Task)		
Description	This unit is about checking the quality of Washed fabric & comparing with the	
	standard	
Scope	This unit/task covers the following:	
	• Taking out the sample after washing & comparing it with the standard	
Performance Criteria (PC)	v.r.t. the Scope	
Elements	Performance Criteria	
Taking out the sample	To be competent, you must be able to:	
after washing& comparing	PC1. take out the sample near the stitch	
it with the standard	PC2. compare the sample with the standard	
	PC3. check the sample for washing or rubbing fastness	
	PC4. take the sample to your supervisor if the sample is not matching to the	
	standard for decision	
Knowledge and Understan	ding (K)	
A. Organizational	You need to know and understand:	
Context	KA1. procedure followed to get the final output in processing unit	
(Knowledge of the	KA2. standard operatining procedure (SOP) and regulations in processing unit	
company/	KA3. safe working practices to be adopted in processing unit	
organization and	KA4. how to report to the supervisor or higher authority about any grievances	
its processes)	faced	
. ,		
B. Technical	You need to know and understand:	
Knowledge	KB1. how to cut the required size of sample to avoid wastage	
-	KB2. take corrective action immediately to avoid waste of time & production	
	loss	
Skills (S)		
	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 with supervisor appropriately	
	SA4. 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	







TSC/N 5303	Checking the Quality of Washed Fabric	
	SB6. check your work is complete and free from errors	
	SB7. make sure every kind of communication is error free	
D. Technical Skills	You need to know and understand :	
	SC1. good matching skills & knowledge about the fabric	
	SC2. washing & rubbing properties of various fabrics	
	SC3. how to adjust speed, temp or roller pressure depending upon the	
	required effect on the fabric	







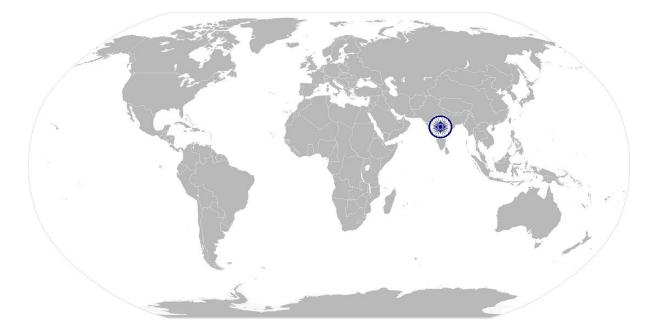
Checking the Quality of Washed Fabric



TSC/N 5303

NOS Version Control

NOS Code	TSC/N 5303		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Washing & Drying	Next review date	01/03/16



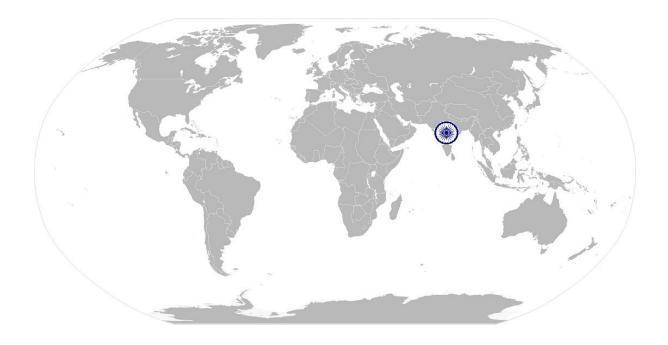






Maintaining work area, tools and machine

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 machine

Unit Code	TSC/ N9001
Unit Title	Maintaining work area, tools and machines
(Task)	Wantaning 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:
	 Maintain the work area, tools and machines
Performance Criteria (PC) w.r.t. the Scope
Elements	Performance Criteria
Maintain the work	To be competent, you must be able to:
area, tools and	PC1. handle materials, machinery, equipment and tools with care and use them in
machines	the correct way
	PC2. use correct lifting and handling procedures
	PC3. use materials to minimize waste
	PC4. maintain a clean and hazard free working area
	PC5. maintain tools and equipment
	PC6. carry out running maintenance within agreed schedules
	PC7. carry out maintenance and/or cleaning within one's responsibility
	PC8. report unsafe equipment and other dangerous occurrences
	PC9. ensure that the correct machine guards are in place
	PC10. work in a comfortable position with the correct posture
	PC11. use cleaning equipment and methods appropriate for the work to be carried
	out
	PC12. dispose of waste safely in the designated location
	PC13. store cleaning equipment safely after use
	PC14. carry out cleaning according to schedules and limits of responsibility
Knowledge and Under	
A. Organizational	You need to know and understand:
Context	KA1. personal hygiene and duty of care
(Knowledge of	KA2. safe working practices and organisational procedures
the company/	KA3. limits of your own responsibility
organization and	KA4. ways of resolving with problems within the work area
its processes)	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 timekeeping)
	KA9. the company's quality standards
	KA10. the importance of complying with written instructions
	KA11. equipment operating procedures / supervisor's instructions
B. Technical	You need to know and understand:
Knowledge	KB1. work instructions and specifications and interpret them accurately
	KB2. relation between work role and the overall manufacturing process
	KB3. hazards likely to be encountered when conducting routine maintenance







тs	C/ N9001	Maintaining work area, tools and machine	
		KB4. the importance of taking action when problems are identified	
		KB5. different ways of minimising waste	
		KB6. the importance of running maintenance and regular cleaning	
		KB7. effects of contamination on products i.e. machine oil, dirt, foreign materials	
		KB8. common faults with equipment and the method to rectify	
		KB9. maintenance procedures	
		KB10. different types of cleaning equipment and substances and their use	
		KB11. safe working practices for cleaning and the method of carrying them out	
Ski	ills (S)		
Α.	Core Skills/	Reading Skills	
	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 effectively in local language	
		SA4. communicate with supervisor appropriately	
		SA5. talk to others to convey information effectively	
В.	Professional Skills	Problem Solving	
		You need to know and understand how to:	
		SB1. identify the real reason of problem field	
		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	
C.	Technical Skills	You need to know and understand :	
		SC1. communicate effectively	
		SC2. apply leadership skills wherever required	
		SC3. take initiative at the right place	
		SC4. understand the requirement to be creative	







TSC/ N9001 NOS Version Control

Maintaining work area, tools and machine

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	Washing & Drying	Next review date	01/03/16



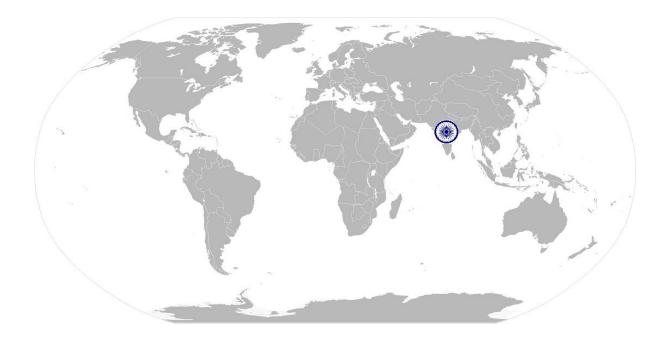






Working in a team

National Occupational Standard



Overview

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



TSC/ N9002





Working in a team

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Unit Code	TSC/ N9002	
Unit Title	Working in a team	
(Task)		
Description	This unit is about working as a team member in the textile industry	
Scope	This unit/task covers the following:	
	 commitment and trust 	
	 communication 	
	 adaptability 	
	 creative freedom 	
Performance Criteria (F	PC) w.r.t. the Scope	
Elements	Performance Criteria	
Commitment and		
	To be competent, you must be able to:	
trust	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	
1	PC5. report all problems faced during the process	
	PC6. talk politely with other team members and colleagues	
	PC7. submit daily report of own performance	
Adaptability	PC8. adjust in different work situations	
	PC9. give due importance to others' point of view	
	PC10. avoid conflicting situations	
Creative freedom	PC11. develop new ideas for work procedures	
	PC12. improve upon the existing techniques to increase process efficiency	
Knowledge and Unders		
A. Organizational	You need to know and understand:	
Context	KA1. standard operatining procedure (SOP) and regulations in a textile mill	
CONTEXT	KA2. procedure followed to get the final output in the mill	
	KA3. safe working practices to be adopted in textile mill	
	KA4. reporting to the supervisor or higher authority about any grievances faced	
B. Technical	KB1. the importance of the previous and next step of the process	
Knowledge	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	
Generic Skills	You need to know and understand how to:	
	SA1. write clear and short sentences	
	SA2. write daily work report	
	SA3. write grievance complaint application	
	Reading Skills	







TCC/ NI0002

TSC/ N9002	Working in a team		
	SA4. comprehend written instructions		
	SA5. read any application sent by other colleagues		
	Oral Communication (Listening and Speaking skills)		
	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		
	SB3. apply good attention to detail		
	SB4. ensure every kind of communication is error free		
C. Technical Skills	You need to know and understand how to:		
	SC1. communicate effectively		
	SC2. apply leadership skills wherever required		
	SC3. take initiative at the right place		
	SC4. understand the requirement to be creative		







Working in a team



TSC/ N9002

NOS Version Control

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	Washing & Drying	Next review date	01/03/16



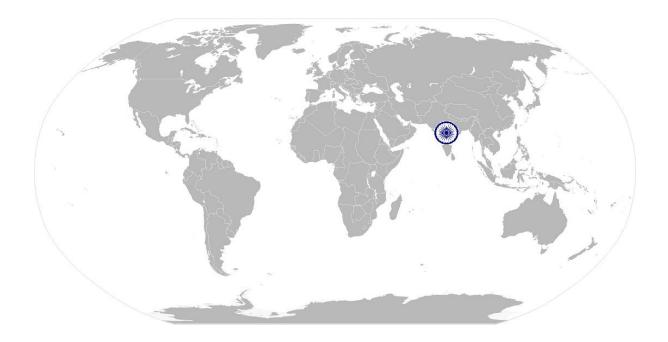






Maintain health, safety and security at work place

National Occupational Standard



Overview

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







PERFECTING SKILLS	V Corporation
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:
	 comply with health, safety and security requirements at work
	 recognizing the hazards planning the safety techniques
	 implementing the programs
Performance Criteria (I	
Elements	Performance Criteria
Comply with health,	To be competent, operator must be able to:
Safety and security	PC1. comply with health and safety related instructions applicable to the
requirements at work	workplace
	PC2. use and maintain personal protective equipment such as "ear plug", " nose
	mask ", " head cap" etc., as per protocol PC3. carry out own activities in line with approved guidelines and procedures
	PC4. maintain a healthy lifestyle and guateragainst dependency on intoxicants
	PC5. follow environment management system related procedures
	PC6. identify and correct (if possible) malfunctions in machinery and equipment
	PC7. report any service malfunctions that cannot be rectified
	PC8. store materials and equipment in line with organisational requirements
	PC9. safely handle and remove waste
	PC10. minimize health and safety risks to self and others due to own actions
	PC11. seek clarifications, from supervisors or other authorized personnel in case of perceived risks
	PC12. monitor the workplace and work processes for potential risks and threat
	PC13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned
	PC14. report hazards and potential risks/ threats to supervisors or other authorized
	personnel
	PC15. participate in mock drills/ evacuation procedures organized at the workplace
	PC16. undertake first aid, fire-fighting and emergency response training, if asked to do so
	PC17. take action based on instructions in the event of fire, emergencies or
	accidents
	PC18. follow organisation procedures for shutdown and evacuation when required
Recognizing the	To be competent, you must be able to:
hazards	PC19. identify different kinds of possible hazards (environmental, personal,
	ergonomic, chemical) of the industry
Dianaina tha safatu	PC20. recognise other possible security issues existing in the workplace
Planning the safety	PC21. recognise different measures to curb the hazards







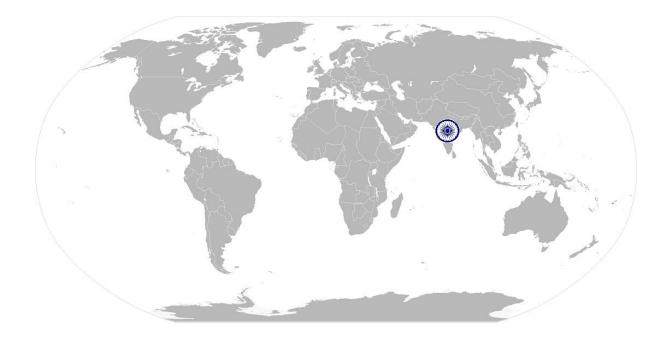
TSC	C/ N9003	Maintain health, safety and security at work place		
tec	hniques			
Imp	plementing the	PC22. communicate the safety plan to everyone		
pro	grams	PC23. attach disciplinary rules with the implementation		
Kno	owledge and Unders	standing (K)		
Α.	Organizational	You need to know and understand:		
	Context	KA1. standard operatining procedure (SOP) and regulations in a textile mill		
	(Knowledge of	KA2. safe working practices to be adopted in textile mill		
	the company/	KA3. quality systems and other processes practiced in the textile mill		
	organization and	KA4. health and safety related practices applicable at the workplace		
	its processes)	KA5. potential hazards, risks and threats based on nature of operations		
		KA6. organizational procedures for safe handling of equipment and machine operations		
		KA7. potential risks due to own actions and methods to minimize these		
		KA8. environmental management system related procedures at the workplace		
		KA9. layout of the plant and details of emergency exits, escape routes, emergency equipment and assembly points		
		KA10. potential accidents and emergencies and response to these scenarios		
		KA11. reporting protocol and documentation required		
		KA12. details of personnel trained in first aid, fire-fighting and emergency response		
		KA13. actions to take in the event of a mock drills/ evacuation procedures or actual		
		accident, emergency or fire		
В.	Technical	You need to know and understand:		
	Knowledge	KB1. occupational health and safety risks and methods		
	U	KB2. personal protective equipment and method of use		
		KB3. identification, handling and storage of hazardous substances		
		KB4. proper disposal system for waste and by-products		
		KB5. signage related to health and safety and their meaning		
		KB6. importance of sound health, hygiene and good habits		
		KB7. ill-effects of alcohol, tobacco and drugs		
Ski	lls (S)			
	Core Skills/	Writing Skills		
	Generic Skills	You need to know and understand how to:		
		SA1. write clear and short sentences		
		Reading Skills		
		SA2. read and understand the company instructions		
		SA3. read and understand work instructions		
		SA4. read and understand the safety guidelines		
		Oral Communication (Listening and Speaking skills)		
		SA1. listen to others attentively		
		SA2. respond to emergencies, accidents or fire at the workplace		
		SA3. evacuate the premises and help others in need while doing so		
		SA4. the value of physical fitness, personal hygiene and good habits		
		SA5. talk with others politely		
в.	Professional Skills	Decision Making		







TSC/ N9003	aintain health, safety and security at work place					
	SB2. make required safety plans as and when required					
	SB3. raise alarm in case of emergency					
	Analytical Thinking					
	SB4. know the use of correct safety measure whenever required					
	Attention to Detail					
	SB5. be attentive to details					
	SB6. be careful to avoid occurrence of hazards					
C. Technical Skills	You need to know and understand :					
	SC1. maintenance of neatness at work					
	SC2. procedure for reporting unwanted behavior					







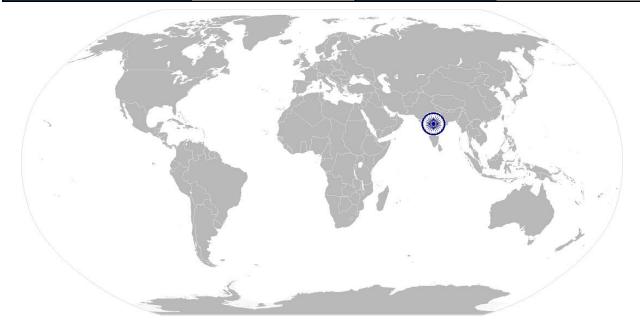


TSC/ N9003

Maintain health, safety and security at work place

NOS Version Control

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





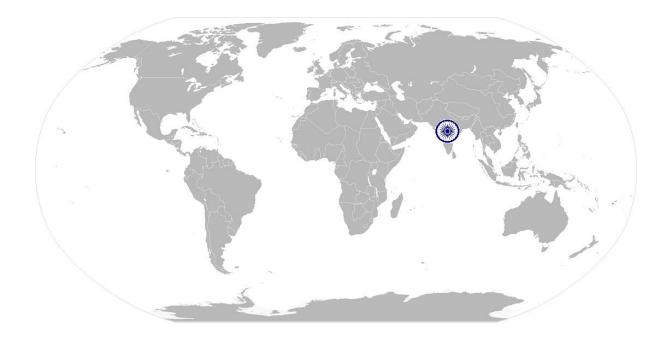




TSCN9004

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.







TSCN9004

Comply with industry and organizational requirements

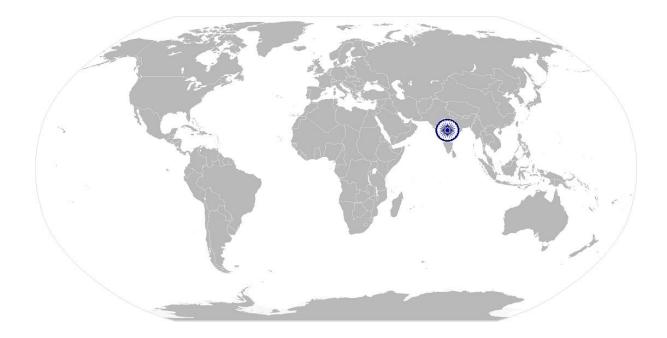
Unit Code	TSC/ N9004
Unit Title (Task)	Comply with industry and organizational requirements
Description	This unit is about knowing, understanding, and complying with the requirements of the organization and the textile industry
Scope	 This unit/task covers the following: self development team work organizational standards industry standards
Performance Criteria (F	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 colleaguesPC7.communicate politelyPC8.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 Unders	standing (K)
A. Organizational Context (Knowledge of the company/ organization and its processes)	You need to know and understand: KA1. standard operatining 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 parts of machine
Skills (S)	
A. Core Skills/	Writing Skills
Generic Skills	You need to know and understand how to: SA1. write clear and short sentences Reading Skills







TSCN9004 C	mply with industry and organizational requirements				
	You need to know and understand how to:				
	SA2. read the given instructions				
	SA3. comprehend written instructions				
	Oral Communication (Listening and Speaking skills)				
	SA4. talk effectively with others				
	SA5. put forward your point				
	SA6. listen to others				
B. Technical skills	you need to know and understand :				
	SB1. Organizational requirements				
	SB2. your responsibilities at the workplace				
	SB3. procedure to comply with the industry standards				







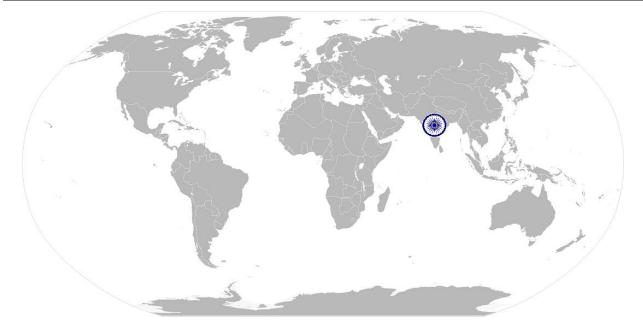


TSCN9004

Comply with industry and organizational requirements

NOS Version Control

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







Job Role: Washing Range Operator Qualification Pack: TSC/Q 4601 Washing 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.

The assessment for the theory part will be based on knowledge bank of question created by the SSC.
 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	Performance Criteria (PC)	Total Marks	Ou t	Marks Al	location	
Standards (NOS)			Of	Practica I	Theor y	Viva
1. TSC/N 5301 Taking	PC1. come at least 10 - 15 minutes earlier to the work place	60	2	1	1	0
charge of shift and	PC2. bring the necessary operational tools to the department		3	2	1	0
handing over shift to operator	rge of t andPC2. bring the necessary operational t tools to the department3ding over t toPC3. meet the previous shift operator and discuss with him/ her regarding3	3	2	1	0	
	processed & process running on the		2	1	1	0
	mentioned on the job card display on	-	2	2	0	0
	PC6. check for the availability of the spare trolley for unloading the fabric		2	2	0	0
	PC7. check the next batch to be processed is ready near the machine		2	1	1	0
	PC8. ensure the required dyes & chemicals are already weighed & prepared		2	0	1	1
	PC9. check the cleanliness of the machines & other work areas	1	2	1	1	0







 Assessment Cr	петна				
PC10. question the previous shift		2	1	1	0
operator for any deviation in the					
above and bring the same to the					
knowledge of His/ Her shift Superior					
as well that of the previous shift as					
well.					
PC11. hand over the shift to the		4	2	2	0
incoming operator in a proper manner					
PC12. Ensure in providing the details		2	1	1	0
regarding fabric quality & the process					
running on the machine					
PC13. provide all relevant information		2	1	1	0
regarding the stoppages or breakdown					
in the machine, any damage to the					
fabric or machine.					
PC14. ensure the empty trolley is near		6	5	0	1
the machine for unloading the fabric					
PC15. ensure the next lot to be		2	1	1	0
processed is ready near the machine					
already stitched & arranged properly					
PC16. Ensure the required dyes &		4	1	1	2
chemicals for the next lot or next					
process are weighed & prepared					
PC17. get clearance from the incoming		4	3	0	1
counterpart before leaving the work					
spot					
PC18. report to His/ Her shift		2	1	1	0
Superiors as well as that of the					
incoming shift operator in case His/					
Her counterpart doesn't report for the					
incoming shift					
PC19. Ensure the shift has to be		5	3	1	1
properly handed over to the incoming					
shift operator					
PC20. report to His/ Her shift Superior		2	1	1	0
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					
PC21. collect the wastes from waste		2	2	0	0
collection bags, weigh them and					
transport to storage area					
PC22. ensure the machine and its		3	1	1	1







	work place is clean					
		60	60	35	18	7
	Total	Weightag		58.33%	30.00	11.67
		е %			%	%
2. TSC/ N	PC1. understand the task mentioned	100	4	2	1	1
5302	in the work order					
Operating	PC2. ensure that the machine is empty		3	2	1	0
the Washing	& clean					
Range	PC3. feed the fabric from the batch or		4	2	1	1
Machine	trolley in the center of the machine					
	PC4. ensure fabric is crease-less and		5	3	2	0
	evenly fed onto the machine					
	PC5. know the operations of the		10	8	2	0
	machine					
	PC6. read & understand the process		6	3	1	2
	being followed to do the task	-				
	PC7. keep even tension on fabric		4	2	2	0
	throughout the process	-				
	PC8. keep optimum pressure of the		3	2	1	0
	squeezer rolls to get good results	-				
	PC9. set the required temp in all		8	5	2	1
	chambers	-				
	PC10. open the steam valves & drain		5	3	2	0
	the condensate in all compartments	-				
	PC11. dispense the chemicals in the		8	4	1	3
	chambers	-				
	PC12. start the machine & take out		6	2	2	2
	fabric either on batch or trolley	-				
	PC13. check ph & temp & other		6	4	1	1
	parameters in all compartments	-				
	PC14. make sure the machine is kept		5	3	1	1
	clean at all times ,before loading,					
	while running & after unloading the					
	fabric	-		_	_	_
	PC15. follow the preventive		6	4	1	1
	maintenance schedule & ensure the					
	machine is running smoothly	-				
	PC16. check that all controls are		4	3	1	0
	functioning properly	-				
	PC17. clean & empty out the dust		3	2	1	0
	collector as & when required	4	L			
	PC18. stop the machine in case of any		5	3	1	1
	abnormal sound					







	Assessment C				1	
	PC19. ensure enough supply of		5	4	1	0
	utilities such as water, air & steam for					
	proper functioning of machine					
		100	10	61	25	14
			0			
	Total	Weightag	-	61.00%	25.00	14.00
	lotar	e %		01.00/0	%	%
2 TCC/N	DC1 take out the complement the	40	10	5	3	2
3. TSC/N	PC1. take out the sample near the	40	10	5	3	2
5303	stitch	-		-		
Checking the	PC2. compare the sample with the	_	10	6	2	2
quality of	standard					
Washed	PC3. check the sample for washing or		10	6	2	2
fabric	rubbing fastness					
	PC4. take the sample to your	-	10	6	2	2
	supervisor if the sample is not					
	matching to the standard for decision					
		40	40	23	9	8
			40	_		_
	Total	Weightag		58%	23%	20%
		e %				
4. TSC/	PC1. handle materials, machinery,	50	4	2	1	1
N9001	equipment and tools safely and					
Maintain	correctly					
work area,	PC2. use correct lifting and handling		4	2	2	0
tools and	procedures					
machines	PC3. use materials to minimize waste	-	3	2	1	0
	PC4. maintain a clean and hazard free	-	3	2	1	0
			3	2	1	0
	working area		-			
	PC5. maintain tools and equipment	-	4	3	0	1
	PC6. carry out running maintenance		4	2	1	1
	within agreed schedules					
	PC7. carry out maintenance and/or		3	2	1	0
	cleaning within one's responsibility					
	PC8. report unsafe equipment and		3	1	2	0
	other dangerous occurrences		3	1	-	Ŭ
	PC9. ensure that the correct machine	-	4	3	1	0
			4	3	1	U
	guards are in place	-	<u> </u>	l		
	PC10. work in a comfortable position		4	3	1	0
	with the correct posture					
	PC11. use cleaning equipment and		4	2	1	1
	methods appropriate for the work to					
	be carried out					
	PC12. dispose of waste safely in the	1	3	2	1	0
	designated location					
	PC13. store cleaning equipment safely	1	4	3	0	1
	· crossic containing equipment salely		-	3	Ŭ	-







	, 656551116116		-			
	after use					
	PC14. carry out cleaning according to	50	3	3	0	0
	schedules and limits of responsibility					
			50	32	13	5
	Total	Weightag		64%	26%	10%
		e %				
5.TSC/ N9002	PC1. Be accountable to the own role in	50	4	2	1	1
Working in a	whole process					
team	PC2. Perform all roles with full		4	2	0	2
	responsibility					
	PC3. Be effective and efficient at		6	4	2	0
	workplace					
	PC4. Properly communicate about		3	2	0	1
	company policies					
	PC5. Report all problems faced during		3	2	0	1
	the process					
	PC6. Talk politely with other team		4	2	1	1
	members and colleagues					
	PC7. Submit daily report of own		5	3	1	1
	performance					
	PC8. Adjust in different work		3	2	1	0
	situations					
	PC9. Give due importance to others'		4	2	0	2
	point of view					
	PC10. Avoid conflicting situations		4	3	1	0
	PC11. Develop new ideas for work		6	4	2	0
	procedures					
	PC12. Improve upon the existing		4	1	1	2
	techniques to increase process					
	efficiency					
		50	50	29	10	11
	Total	Weightag		58.00%	20.00	22.00
		e %			%	%
6. TSC/	PC1. comply with health and safety	50	2	1	1	0
N9003	related instructions applicable to the					
Maintain	workplace					
health,	PC2. use and maintain personal		2	1	1	0
safety and	protective equipment as per protocol					
security at	PC3. carry out own activities in line	1	3	1	1	1
workplace	with approved guidelines and					
	procedures					
	procedures					
	PC4. maintain a healthy lifestyle and	-	2	2	0	0
		•	2	2	0	0







Assessment C	пспа				
PC5. follow environment management system related procedures		2	1	1	0
PC6. identify and correct (if possible)		2	1	1	0
malfunctions in machinery and		2	1	1	0
equipment					
PC7. report any service malfunctions		3	3	0	0
that cannot be rectified		5	5	Ŭ	Ŭ
PC8. store materials and equipment in		2	1	1	0
line with manufacturer's and		-	-	-	Ŭ
organisational requirements					
PC9. safely handle and move waste		2	1	1	0
and debris		-	-	-	•
PC10. minimize health and safety risks		2	1	0	1
to self and others due to own actions		-	-		-
PC11. seek clarifications, from		2	1	0	1
supervisors or other authorized		-	-		-
personnel in case of perceived risks					
PC12. monitor the workplace and		2	1	1	0
work processes for potential risks and		-	-	-	Ŭ
threats					
PC13. carry out periodic walk-through		2	1	1	0
to keep work area free from hazards		_	-	-	•
and obstructions, if assigned					
PC14. report hazards and potential		2	2	0	0
risks/ threats to supervisors or other					
authorized personnel					
PC15. participate in mock drills/		2	1	1	0
evacuation procedures organized at					
the workplace					
PC16. undertake first aid, fire-fighting		2	2	0	0
and emergency response training, if					
asked to do so					
PC17. take action based on		2	2	0	0
instructions in the event of fire,					
emergencies or accidents					
PC18. follow organisation procedures		2	1	1	0
for shutdown and evacuation when					
required					
PC19. identify different kinds of		2	1	0	1
possible hazards (environmental,					
personal, ergonomic, chemical) of the					
industry					
PC20. recognise other possible		2	1	1	0
security issues existing in the					
workplace					







	PC21. recognise different measures to		3	1	1	1
	curb the hazards PC22. communicate the safety plan to	an to Image: matrix orgonal symbol symb	1			
	everyone		2	-	Ū	1
	PC23. attach disciplinary rules with		3	1	1	1
	the implementation					
		50	50	29	14	7
	Total	•••		58%	28%	14%
7. TSC/	PC1. perform own duties effectively	50	4	2	1	1
N9004	PC2. take responsibility for own		4	2	2	0
Comply with	actions					
industry and	PC3. be accountable towards the job		3	2	0	1
organisation al	role and assigned duties				-	
requirements	PC4. take initiative and innovate the existing methods		4	2	1	1
	PC5. focus on self-learning and		Δ	3	1	0
	improvement		-	5	-	Ŭ
	PC6. co-ordinate with all the team		3	2	0	1
	members and colleagues					
	PC7. communicate politely		4	4	0	0
	PC8. avoid conflicts and		4	2	1	1
	miscommunication					
	PC9. know the organisational		3	3	0	0
	standards					
	PC10. implement them in your		4	2	1	1
	performance PC11. motivate others to follow them		Λ	2	2	0
			-		-	•
	PC12. know the industry standards		_	-	-	_
	PC13. align them with organisation standards		-			
		50	50	31	11	8
	Total			62%	22%	16%
	Total			240	100	60
	Grand Total			400		