



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

Contact Us: Textile SSC

E-mail: ceo@texskill.in



Contents

Introduction and Contacts	.P.1
Qualifications Pack	Р.2
Glossary of Key Terms	P.3
NOS Units	P.5

Introduction

Qualifications Pack – Singeing & Desizing Machine Operator

SECTOR: TEXTILE

SUB-SECTOR: PROCESSING

OCCUPATION: PRE-TREATMENT

REFERENCE ID: TSC/Q 5101

ALIGNED TO: NCO-2004 / 8264.87

Brief Job Description: A Singeing & Desizing Machine Operator is responsible to do the specified job of singeing & desizing of 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 Singeing & Desizing machine.

Personal Attributes: A Singeing &Desizing Machine Operator should have good eyesight, motor skills and vision. He should also have good interpersonal skills.



Qualifications Pack Code

TSC/Q 5101



				100, 0 0101	
)	Job Role	Singeing & Desizing Machine Operator			
	Credits (NSQF) TBD			Version number	1.0
	Sector	Textile		Drafted on	15/12/15
2	Sub-sector	Processing		Last reviewed on	25/02/15
5	Occupation	Pre-Treatment		Next review date	01/03/16
	Job Role		Singeing & Desizing N	lachine Operator	
	Role Description		To carry out the process of singeing & desizing of fabric using a Singeing & Desizing Machine, as specified under Job Order		
	NSQF level		4		
	Minimum Educational Qualification		10 th standard, preferably		
	Maximum Educational Qualification	ons	N/A		
	Training (Suggested but not mandatory) Experience		Three to six months of training in textile processing.		
			Preferably 2-3 years in	n textile processing	
			Compulsory:		
			1. TSC/N5101 Taking	g charge of shift and	handing over shift to
			<u>operator</u>		
	National Occupational Standards (NOS)		2. <u>TSC/N5102 Operating the Singeing & Desizing Machine</u>		
			3. <u>TSC/N5103 Controlling the Desizing operation</u>		
			4. <u>TSC/ N9001 Maintain work area, tools and machines</u>		
			 <u>TSC/ N9002 Working in a team</u> TSC/ N9003 Maintain health, safety and security at 		
			workplace	tan nearth, sarety ar	id security at
			7. <u>TSC/ N9004 Comply with industry and organizational</u>		
			requirement		
			Optional:		
			Not Applicable		

 Performance Criteria
 As described in the relevant OS units





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.
efir	Sub-sector	Sub-sector is derived from a further breakdown based on the
Õ		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.
ĺ	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.
ĺ	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
	NSQF	National Skill Qualifications Framework
	NCO	National Classifications of Occupation
	TBD	To Be Determined
	TSC	Textile Sector Skill Council
	NSDC	National Skill Development Corporation

4

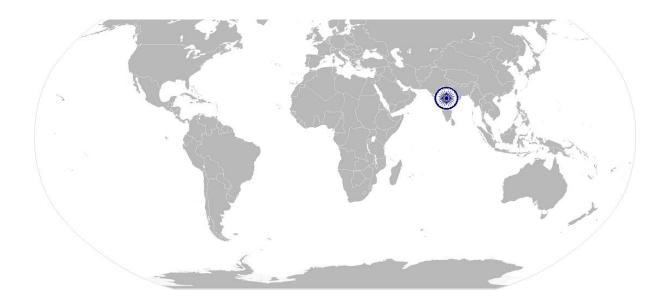






Taking charge of shift and handing over shift to operator

National Occupational Standard



Overview

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







Taking charge of shift and handing over shift to operator

T	
<u> </u>	
σ	
D	
\subseteq	
g	
5	
D	
Ĕ	
ō	
÷	
ati	
Ö	
5	
- CC	
Ŭ	
g	
0_	
J.	
7	

Unit Code	TSC/N5101			
Unit Title (Task)	Taking charge of shift and handing over shift to operator			
Description	This unit is about taking charge of shift from previous shift operator and relieving the			
	responsibilities to the next shift operator			
Scope	This unit/task covers the following:			
	 Taking charge of shift 			
	 Handling over shift 			
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 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 			







TSO	C/N5101	Taking charge of shift and handing over shift to operator				
		PC22. ensure the machine and its work place is clean				
		PC23. set the burner position				
		PC24. set selection of burners and adjust the flames				
Kn	owledge and Unders	tanding (K)				
	A. Technical	You need to know and understand:				
	Knowledge	KA1. the importance of quality & productivity				
		KA2. various defects in the fabric due to yarn, weaving or processing				
		KA3. reasons for various defects in the fabric due to processing & their remedy				
		KA4. process flow in a processing unit				
		KA5. material flow in a processing unit				
		KA6. functions of various controls of the machine				
		KA7. importance of material handling and types of material handling equipment being used				
		KA8. importance of cleanliness at workplace				
		KA9. functions and methodology for operating different material handling				
		equipment				
		KA10. the functions of various alarm signals				
		KA11. guidelines for operating the machine				
		KA12. guidelines for taking charge of shift from previous shift operator				
		KA13. guidelines for handing over the shift to the next shift operator				
		KA14. safety procedures to be followed while operating the machine				
Ski	lls (S)					
	Core Skills/	Writing Skills				
/	Generic Skills	You need to know and understand how to:				
	Generic Skiils	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				
С.	Technical Skills	You need to know and understand how to:				
с.	rechnical JAIIIS	SC1. operate the machine				
		SC2. operate various valve & traps				
		SC3. operate different material handling tools and equipment				







TSC/N5101	Taking charge of shift and handing over shift to operator
	SC4. check the quality of processed fabric
	SC5. maintain cleanliness at work place

NOS Code		TSC/N 5101	
Credits (NSQF)	тво	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Pre-Treatment	Next review date	01/03/16

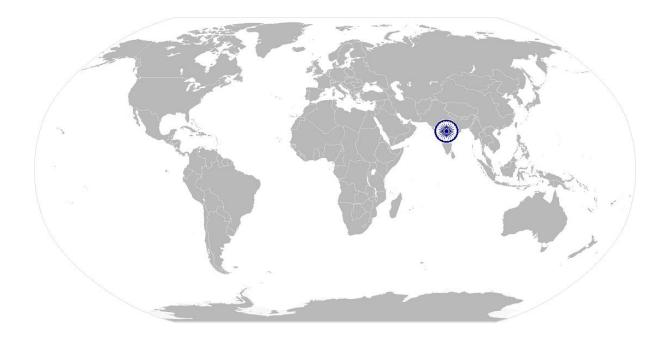




N·S·D·C National Skill Development Corporation

Operating the Singeing & Desizing Machine

National Occupational Standard



Overview

This unit is about operating the Singeing & Desizing Machine







SC/N5102 Operating the Singeing & Desizing Machine			
JC/NJIDZ Operating the Jingenig QDesizing Machine			
Jnit Code TSC/N 5102			
Init Title			
Task) Operating the Singeing & Desizing Machine			
Description This unit is about operating the Singeing & Desizing Machine			
Cope This unit/task covers the following:			
 carry out preparatory activities for operations in the mach 	nine		
 operate the machine for specified task as per work order 			
 clean the machine on a regular basis & carryout preventiv 	e maintenance		
activities			
Performance Criteria (PC) w.r.t. the Scope			
lements Performance Criteria			
Carry out preparatory To be competent, you must be able to:			
ectivities for operations in PC1. understand the task mentioned in the work order			
he machine PC2. to be competent, you must be able to:			
PC3. report to the work place well before time			
PC4. take over from previous shift operator			
PC5. check if the machine is running smoothly & has any bre	akdown in		
previous shift			
PC6. check for any quality issues in the fabric running on the	e machine		
Operate the machine for PC7. know the operations of the machine & the plc program			
pecified tasks as per PC8. read & understand the process being followed to do the			
Nork Order PC9. set the flame width according to the width of the fabric	c to be singed		
PC10. set the distance between flame burner and fabric			
PC11. set the flame intensity according to the fabric structure			
PC12. set the drain temp of water cooled rollers	N et .		
PC13. fabric should be evenly & uniformly dried before singer	ing		
	PC14. set the machine speed as specified		
PC15. ensure the exhaust system is working properly			
PC16. ensure all safety controls are in good working condition			
Clean the machine on a PC17, make sure the machine is kept clean at all times ,befor	e loading, while		
egular basis and carryout running & after unloading the fabric	ha waabina ia		
PC18. follow the preventive maintenance schedule & ensure t running smoothly	the machine is		
PC19. check that all controls are functioning properly			
PC20. ensure the right quality of water , steam & air is availab			
(nowledge and Understanding (K)			
A. Organizational You need to know and understand:			
Context KA1. SOP (Standard Operating Procedures) and regulations in	n processing unit		
(Knowledge of the KA2. procedure followed to get the final output in processing			
company/ KA3. safe working practices to be adopted in processing unit	•		
organization and KA4. how to report to the supervisor or higher authority abo	out any grievances		
its processes) faced			
B. Technical You need to know and understand:			
Knowledge KB1. importance of discipline & punctuality			
KB2. importance of take over & handover in achieving qualit	ty & productivity		







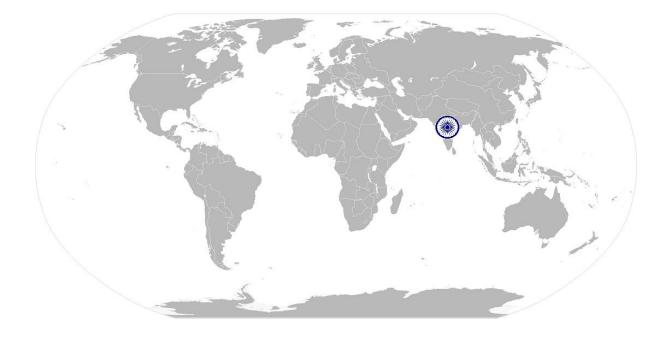
TSC/N5102 C	perating the Singeing & Desizing Machine			
	KB3. how to report any abnormal sound/ noise to the concerned/ supervisor			
	KB4. type of fiber, yarn and fabric			
	KB5. clogged burners will give uneven singeing			
	KB6. fabric tension must be even throughout			
	KB7. knowledge about various controls of machine			
	KB8. knowledge about various functions of singeing & desizing machine			
	KB9. knowledge of machine speed according to fabric quality (best 50-			
	150m/min)			
	KB10. knowledge about safety measures in case of an accident			
	KB11. fabric should be checked for moisture content before singeing			
	KB12. safety of man, machine & material in case of an accident			
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			
	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			
D. Technical Skills	You need to know and understand :			
	SC1. know the various faults due to yarn & weaving in the fabric			
	SC2. quality/ sort no.			
	SC3. width of fabric			
	SC4. length & weight			
	SC5. burners, guide rolls & other machine parts should be cleaned properly			
	SC6. use of edge guide sensors for even & straight feeding of fabric to the			
	machine			
	SC7. proper use of guide rolls & control sensors			
	SC8. basic operation of various types of singeing & desizing machine – plate,			
	roller or gas singeing			
	SC9. operations carried out on singeing machine – single side or both sides			
	and one pass or two pass			







TSC/N5102	Operating the Singeing & Desizing Machine
	SC10. manual or auto setting of flame width
	SC11. adjustment of distance- shouldn't be too low or too high-between 6-8
	mm
	SC12. setting of gas/ air mixture (bet 5-20 bar), speed of flame (bet 15-35 m/min)
	SC13. Temperature control which shouldn't be too high or too low – between 50-55*c









Operating the Singeing & Desizing Machine

NOS Code	TSC/N 5102		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Pre-Treatment	Next review date	01/03/16







Controlling the Desizing Operation



National Occupational Standard



Overview

This unit is about controlling the desizing operation





Controlling the Desizing Operation



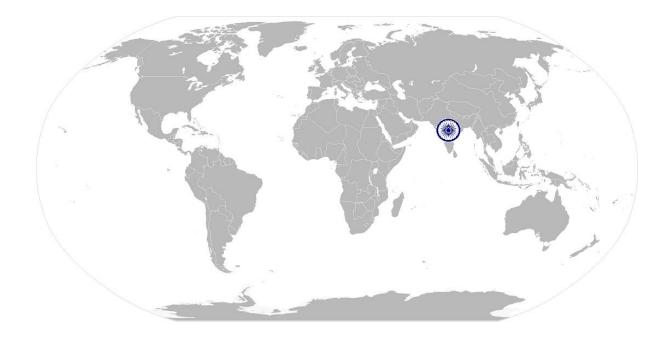
	Unit Code	TSC/N 5103		
	Unit Title	Controlling the Desizing Operation		
	(Task)			
	Description	This unit is about controlling the desizing operation		
	Scope	This unit/task covers the following:		
		 preparing the desizing chemicals 		
		 checking the result & comparing with the standard 		
	Performance Criteria (PC) w			
	Elements	Performance Criteria		
	Preparing the desizing	To be competent, you must be able to:		
	chemicals	PC1. dissolving & mixing the desizing chemicals as per the recipe		
		PC2. adjusting the ph & temp of desizing solution		
		PC3. feed the solution to the machine tank		
		PC4. check temperature, ph & reaction time in the desizing chamber		
	Checking the result &	PC5. cut the sample after desizing		
	comparing with the	PC6. dry the sample & check the size content in the fabric		
	standards	PC7. compare the results with the standard		
	Knowledge and Understand			
	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 operating procedures (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. basic knowledge of various sizing chemicals & their removal		
		KB2. maintain the concentration of desizing solution		
		KB3. use of proper cutting tools		
		KB4. consulting the supervisor in case of any problem		
		KB5. various desizing agents & their properties		
		KB6. about ph & temp of various chemicals for optimum results		
	Skills (s)	Peopling 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		
		SA3. communicate with supervisor appropriately		
		SA4. communicate with supervisor appropriately SA5. talk to others to convey information effectively		
	C. Professional Skills	Problem solving		
<u>_</u>		You need to know and understand how to:		
		SB1. identify the real reason of problem faced		
		SB1. Identity the real reason of problem faced		







TSC/N5103	Controlling the Desizing Operation	
	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	
D. Technical Skills	You need to know and understand :	
	SC1. maintain required ph & temp of bath	
	SC2. method of checking the presence of size in the fabric	
	SC3. comparison with the standard for hand feel & other parameters	



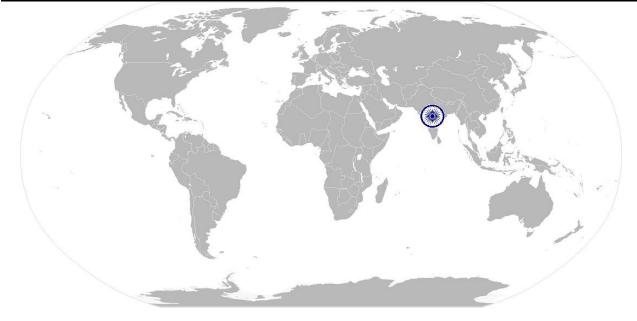




Controlling the Desizing Operation



NOS Code	TSC/N 5103		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Pre-Treatment	Next review date	01/03/16



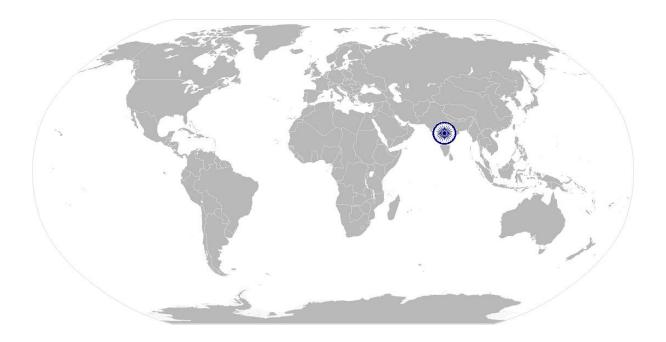






Maintaining work area, tools and machines

National Occupational Standard



Overview

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







Maintaining work area, tools and machines

l	Jnit Code	TSC/ N9001	
	Jnit 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	
S	Scope	This unit/task covers the following:	
		Maintain the work area, tools and machines	
P	Performance Criteria (P		
E	Elements	Performance Criteria	
Ν	Maintain the work	To be competent, you must be able to:	
а	area, tools and	PC1. handle materials, machinery, equipment and tools with care and use them in	
n	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 DC12 dispase of waste cafely in the designated location	
		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	
k	Knowledge and Unders		
_	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	
E	3. 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	







TSC/ N9001	Maintaining work area, tools and machines		
	KB3. hazards likely to be encountered when conducting routine maintenance		
	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		
Skills (S)			
A. 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 with supervisor appropriately		
	SA4. 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		
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. the requirement to be creative		







Maintaining work area, tools and machines

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



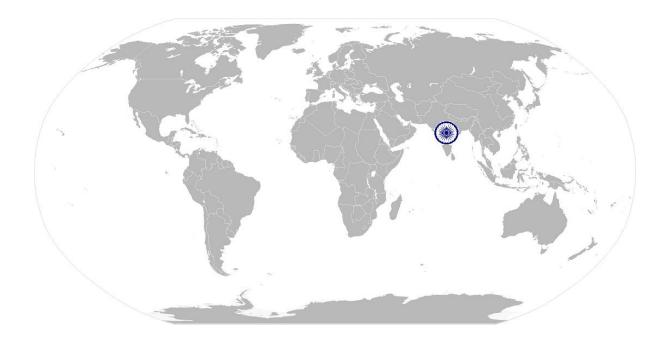






Working in a team

National Occupational Standard



Overview

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







Working in a team

-	_
	\mathbf{O}
	\sim
	(U)
-	_
	\circ
	<u> </u>
	TT.
	ų ų
($\mathbf{\Lambda}$
-	
	-
	σ
	<u> </u>
	\mathbf{O}
	\cup
•	
	σ
	\mathbf{O}_{-}
	\mathbf{U}
	\cup
(
- `	-
-	
	(U)
	\cap
	9
	T

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 tenter in the textile industry
Scope	 This unit/task covers the following: commitment and trust communication adaptability creative freedom
Performance Criteria (F	
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
	PC5. report all problems faced during the process
	PC6. talk politely with other team members and colleagues
Adaptability	PC7. submit daily report of own performance PC8. adjust in different work situations
Adaptability	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 tenter
Creative freedom	PC12. develop new ideas for work procedures
	PC13. improve upon the existing techniques to increase process efficiency
Knowledge and Unders	tanding (K)
A. Organizational	You need to know and understand:
Context	KA1. standard operating procedures (SOP) and regulations in a processing unit
	KA2. procedure followed to get the final output in the mill
	KA3. safe working practices to be adopted in processing unit
	KA4. reporting to the supervisor or higher authority about any grievances faced
B. Technical	you need to know and understand:
Knowledge	KB1. the importance of the previous and next step of the process
	KB2. process flow in a processing unit and the concerned workers
	KB3. material flow in a processing unit and the required person
	KB4. functions of different parts of a processing unit machine KB5. tools and equipments used
	KB6. guidelines for operating the processing unit machine
	KB7. safety procedures to be followed in a processing unit 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		
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. be creative		



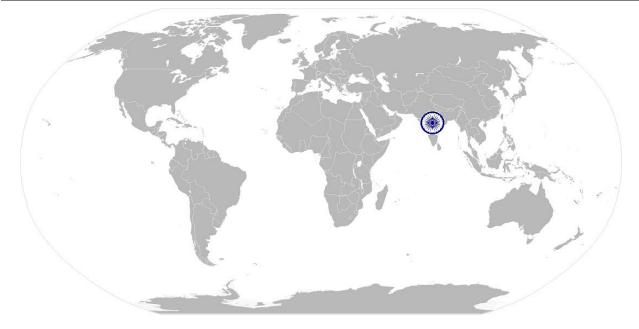


Working in a team



TSC/ N9002

NOS Code	TSC/ N9002		
Credits (NSQF) [<i>OPTIONAL</i>]	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/15
Industry Sub-sector	Processing	Last reviewed on	25/02/15
Occupation	Pre-Treatment	Next review date	01/03/16



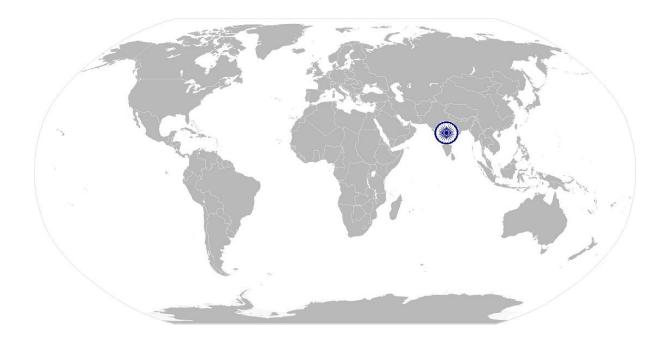






Maintain health, safety and security at work place

National Occupational Standard



Overview

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







PERFECTING SKILLS	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 programmes
Performance Criteria (P	
Elements Comply with health,	Performance Criteria To be competent, operator must be able to:
Safety and security requirements at work	 PC1. comply with health and safety related instructions applicable to the 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 guard against 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 hazards	To be competent, you must be able to: PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry PC20. recognise other possible security issues existing in the workplace
Planning the safety	PC21. recognise different measures to curb the hazards







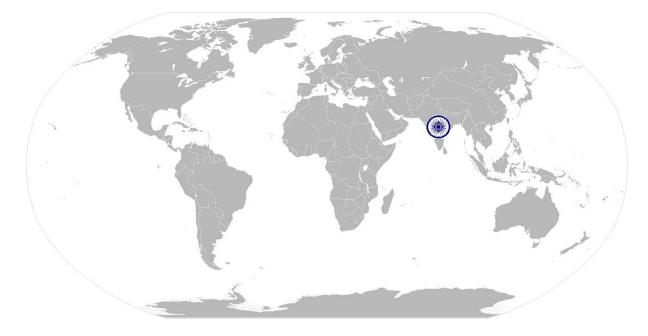
TS	C/ N9003	Maintain health, safety and security at work place
tec	hniques	
Imp	plementing the	PC22. communicate the safety plan to everyone
pro	ograms	PC23. attach disciplinary rules with the implementation
Kno	owledge and Unders	tanding (K)
Α.	Organizational	You need to know and understand:
	Context	KA1. standard operating procedures (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
		You need to know how to:
		SA2. read and understand the company instructions
		SA3. read and understand the local language
		SA4. read and understand the safety guidelines
		Oral Communication (Listening and Speaking skills) You need to know how to:
		SA5. listen to others attentively
		SA6. respond to emergencies, accidents or fire at the workplace
		SA7. evacuate the premises and help others in need while doing so
		SA8. the value of physical fitness, personal hygiene and good habits
		SA9. talk with others politely







TSC/ N9003	Maintain health, safety and security at work place							
B. Professional Skills	Decision Making							
	You need to know how to:							
	SB1. identify correct safety measure for particular hazard							
	B2. 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							
	tention to Detail							
	SB5. be attentive to details							
	SB6. be careful to avoid occurrence of hazards							
C. Technical Skills	You need to know and understand :							
	SC1. maintain neatness at work							
	SC2. procedure for reporting unwanted behavior							



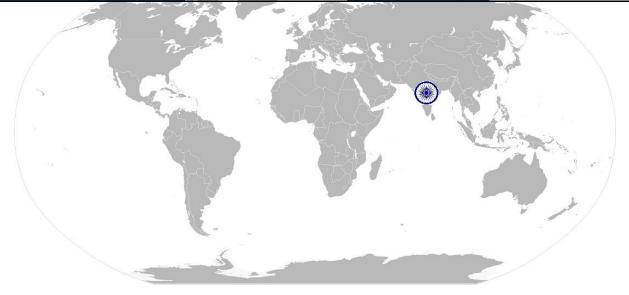






Maintain health, safety and security at work place

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



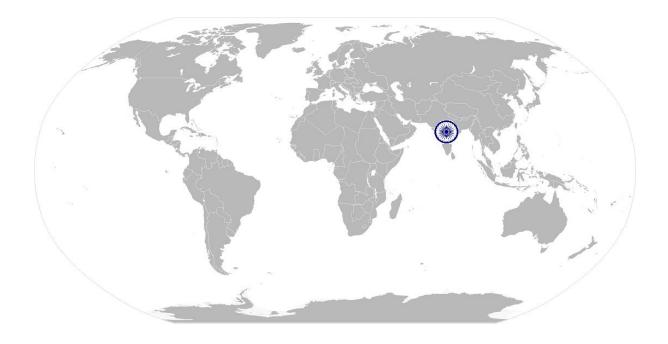






Comply with industry and organizational requirements

National Occupational Standard



Overview

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







Comply with industry and organizational requirements

(Task)DescriptionThis unit is about knowing, understanding, and complying with the requirements of							
	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 							
 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							
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 PC9. know the organisational standards							
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 You need to know and understand:							
ContextKA1. standard operating procedures (SOP) and regulations in a textile mill							
(Knowledge of KA2. reporting to the supervisor or higher authority							
the company/ KA3. knowledge of organisational standards							
organization and KA4. knowledge of industry standards							
its processes)							
B. Technical You need to know and understand:							
Knowledge KB1. process and material flow in a textile mill							
KB2. importance of complying with the standards							
KB3. guidelines for cleaning the various part of machine							
Skills (S)							
A. Core Skills/ Writing Skills							
Generic Skills You need to know and understand how to:							
SA1. write reports							
SA2. write clear and short sentences							







TSC/N 9004	Comply with industry and organizational requirements
	Reading Skills
	You need to know and understand how to:
	SA3. read the local language
	SA4. read one more language than the local language
	SA5. read and comprehend the standards and rules
	Oral Communication (Listening and Speaking skills)
	You need to know and understand how to:
	SA6. talk effectively with others
	SA7. put forward your point
	SA8. listen to others
B. Technical Skills	You need to know and understand :
	SC1. procedure of preparing the industry standards
	SC2. procedure to follow the given standards
	SC3. procedure to comply with the standards









Comply with industry and organizational requirements

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









Assessment criteria

Job Role: Singeing & Desizing Machine Operator Qualification Pack: Singeing & Desizing 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.

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 Occupationa	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
l Standards (NOS)				Theor y	Skills Practic al	Viva
1. TSC/	PC1. come at least 10 - 15 minutes earlier to the work place	42	2	0	2	0
N5101 Taking	PC2. bring the necessary operational tools to the department		1 3	0	1	0
charge of shift and handing over shift to operator	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.			1	1	1
	PC4. understand the fabric being processed & process running on the machine		3	1	1	1
	PC5. ensure the technical details are mentioned on the job card display on the machine		3	1	1	1
	PC6. check for the availability of the spare trolley for unloading the fabric		1	0	1	0
	PC7. check the next batch to be processed is ready near the machine		1	0	1	0
	PC8. ensure the required dyes & chemicals are already weighed & prepared		1	0	1	0
	PC9. 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 bring the same to the knowledge of his/ her shift superior as well that of the previous	2	0	2	0
shift as well.				
PC11. hand over the shift to the incoming	1	0	1	0
operator in a proper manner	1	Ŭ	1	Ū
PC12. ensure in providing the details	3	1	1	1
regarding fabric quality & the process	5	-	1	-
running on the machine				
PC13. provide all relevant information	2	0	2	0
regarding the stoppages or breakdown in	2	U	2	U
the machine, any damage to the fabric or				
machine.				
PC14. ensure the empty trolley is near the	1	0	1	0
	1	0	1	U
machine for unloading the fabric	2	0	2	0
PC15. ensure the next lot to be processed	2	0	2	0
is ready near the machine already stitched				
& arranged properly			-	
PC16. ensure the required dyes &	2	0	2	0
chemicals for the next lot or next process				
are weighed & prepared				
PC17. get clearance from the incoming	2	0	2	0
counterpart before leaving the work spot		-		
PC18. report to his/ her shift superiors as	2	0	2	0
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 properly	2	0	2	0
handed over to the incoming shift				
operator				
PC20. report to his/ her shift superior	1	1	1	1
about the quality / production / safety				
issues/ any other issue faced in his/ her				
shift and leave the department only after				
getting concurrence for the same from				
his/ her superiors				
PC21. collect the wastes from waste	1	0	1	0
collection bags, weigh them and transport				
to storage area				
PC22. ensure the machine and its work	2	0	2	0
place is clean				
PC23. set the burner position	1			
PC24. set selection of burners and adjust	1			
the flames				







		NO. 2				
			42	5	32	5
	Total	Weightag e %		12%	76%	12%
2. TSC/	PC1. understand the task mentioned in	35	2	1	0	1
N5102	the work order					
Operating	PC2. report to the work place well before		1	0	1	0
the Singeing	time					
Machine	PC3. take over from previous shift		1	0	1	0
	operator	_				
	PC4. check if the machine is running		2	0	2	0
	smoothly & has any breakdown in					
	previous shift					
	PC5. check for any quality issues in the		3	1	1	1
	fabric running on the machine					
	PC6. know the operations of the machine	_	2	0	2	0
	& the plc programs					
	PC7. read & understand the process being		2	1	0	1
	followed to do the task					
	PC8. set the flame width according to the	-	2	0	2	0
	width of the fabric to be singed					
	PC9. set the distance between flame		2	0	2	0
	burner and fabric				-	_
	PC10. set the flame intensity according to		2	0	2	0
	the fabric structure				-	_
	PC11. set the drain temp of water cooled		2	0	1	1
	rollers	_				
	PC12. fabric should be evenly & uniformly		2	0	2	0
	dried before singeing	_				
	PC13. set the machine speed as specified		1	0	1	0
	PC14. ensure the exhaust system is		1	0	1	0
	working properly					
	PC15. ensure all safety controls are in		2	0	2	0
	good working condition					
	PC16. make sure the machine is kept		2	0	2	0
	clean at all times ,before loading, while					
	running & after unloading the fabric	_				
	PC17. follow the preventive maintenance		2	0	2	0
	schedule & ensure the machine is running					
	smoothly				+	
	PC18. check that all controls are		2	0	2	0
	functioning properly	-			+	
	PC19. ensure the right quality of water ,		2	0	2	0
	steam & air is available	-				
			35	3	28	4







	Total	Weightag e %		9%	80%	11%
3. TSC/N	PC1. dissolve & mix the desizing chemicals	13	3	1	1	1
5103	as per the recipe					
Controlling	PC2. adjust the ph & temp of desizing		3	1	1	1
the Desizing	solution					
Operation	PC3. feed the solution to the machine tank		1	0	1	0
	PC4. check temperature, ph & reaction		3	1	1	1
	time in the desizing chamber					
	PC5. cut the sample after desizing		1	0	1	0
	PC6. dry the sample & check the size		1	0	1	0
	content in the fabric		_	-		•
	PC7. compare the results with the		1	0	1	0
	standard		_	-		
			13	3	7	3
	Total	Weightag		23%	54%	23%
		e %		23/0	3470	23/0
		C /0				
4. TSC/	PC1.handle materials, machinery,	29	3	1	2	0
4. 13C/ N9001	equipment and tools with care and use	29	5	1	2	0
Maintain	them in the correct way					
work area,	PC2. use correct lifting and handling	-	1	0	1	0
tools and	procedures		1	0	1	0
machines	PC3. use materials to minimize waste	-	2	1	1	0
machines	PC4. maintain a clean and hazard free	-	2	1	1	-
			3	T	1	1
	working area	-	2	1	2	0
	PC5. maintain tools and equipment	-	3			0
	PC6. carry out running maintenance within		2	1	1	0
	agreed schedules	-				
	PC7. carry out maintenance and/or		1	0	1	0
	cleaning within one's responsibility	-		-		
	PC8. report unsafe equipment and other		1	1	0	0
	dangerous occurrences	-		-	-	
	PC9. ensure that the correct machine		2	1	1	0
	guards are in place	-			_	
	PC10. work in a comfortable position with		3	1	2	0
	the correct posture	-				
	PC11. use cleaning equipment and		2	1	1	0
	methods appropriate for the work to be					
	carried out	-				
	PC12. dispose of waste safely in the		2	0	2	0
	designated location					
	PC13. store cleaning equipment safely		2	0	2	0
	after use					







					A 0.00000000000000000000000000000000000	10 2 10 2 10 10 10 10 10 10 10 10 10 10 10 10 10
	PC14. carry out cleaning according to		2	1	1	0
	schedules and limits of responsibility					
			29	10	18	1
	Total	Weightag e %		34%	62%	3%
5.TSC/	PC1. be accountable to the own role in	26	2	1	1	0
N9002	whole process					
Working in a	PC2. perform all roles with full		3	1	2	0
team	responsibility			-		
	PC3. be effective and efficient at		4	1	2	1
	workplace			-		
	PC4. properly communicate about		2	1	0	1
	company policies					
	PC5. report all problems faced during the		1	1	0	0
	process					
	PC6. talk politely with other team		2	1	1	0
	members and colleagues			•		-
	PC7. submit daily report of own		1	0	1	0
	performance		2	•	2	-
	PC8. adjust in different work situations		2	0	2	0
	PC9. give due importance to others' point of view		2	1	0	1
	PC10. avoid conflicting situations		3	1	1	1
	PC11. develop new ideas for work procedures		2	1	1	0
	PC12. improve upon the existing		2	1	1	0
	techniques to increase process efficiency					
			26	10	12	4
	Total	Weightag		38%	46%	15%
		e %				
6. TSC/	PC1. comply with health and safety	71	5	1	3	1
N9003	related instructions applicable to the	/1	5	1	5	1
Maintain	workplace					
health,	PC2. use and maintain personal protective	1	5	1	3	1
safety and	equipment such as "ear plug", " nose		5	1		1
security at	mask ", " head cap" etc., as per protocol					
workplace	PC3. carry out own activities in line with		3	1	2	0
•	approved guidelines and procedures					
	PC4. maintain a healthy lifestyle and guard	1	2	1	0	1
	against dependency on intoxicants				1	
	PC5. follow environment management	1	3	1	2	0
	system related procedures					



	NOS	
National	Occupational Standards	



PC6. identify and correct (if possible)		3	1	1	1
malfunctions in machinery and equipment					
PC7. report any service malfunctions that		2	1	0	1
cannot be rectified					
PC8. store materials and equipment in line		2	0	1	1
with organisational requirements					
PC9. safely handle and remove waste		2	0	2	0
PC10. minimize health and safety risks to		3	1	1	1
self and others due to own actions					
PC11. seek clarifications, from supervisors		3	1	1	1
or other authorized personnel in case of					
perceived risks					
PC12. monitor the workplace and work		2	0	2	0
processes for potential risks and threat					
PC13. carry out periodic walk-through to		3	2	0	1
keep work area free from hazards and				-	
obstructions, if assigned					
PC14. report hazards and potential risks/		3	2	0	1
threats to supervisors or other authorized				-	
personnel					
PC15. participate in mock drills/		3	1	2	0
evacuation procedures organized at the					-
workplace					
PC16. undertake first aid, fire-fighting and		5	2	2	1
emergency response training, if asked to					
do so					
PC17. take action based on instructions in		4	1	2	1
the event of fire, emergencies or accidents					
PC18. follow organisation procedures for		2	0	2	0
shutdown and evacuation when required			-		-
PC19. identify different kinds of possible		5	1	3	1
hazards (environmental, personal,					
ergonomic, chemical) of the industry					
PC20. recognise other possible security		3	1	1	1
issues existing in the workplace					
PC21. recognise different measures to		3	1	2	0
curb the hazards					-
PC22. communicate the safety plan to		3	2	0	1
everyone		-			
PC23. attach disciplinary rules with the	1	2	1	1	0
implementation		_		-	Ū
		71	23	33	15
Total	Weightag		32%	46%	21%
10(0)	vvcigiilag	1	32/0	TU /0	<u>~</u> 1/0







7. TSC/ N9004 Comply with industry and organisation al requirement s	PC1. perform own duties effectively	39	4	1	2	1
	PC2. take responsibility for own actions		4	1	2	1
	PC3. be accountable towards the job role and assigned duties		3	1	1	1
	PC4. take initiative and innovate the existing methods		4	1	2	1
	PC5. focus on self-learning and improvement		3	1	1	1
	PC6. co-ordinate with all the team members and colleagues		3	1	2	0
	PC7. communicate politely		3	1	2	0
	PC8. avoid conflicts and miscommunication		3	1	2	0
	PC9. know the organisational standards		2	1	1	0
	PC10. implement them in your performance		3	1	2	0
	PC11. motivate others to follow them		3	1	2	0
	PC12. know the industry standards		2	1	0	1
	PC13. align them with organisation standards		2	0	2	0
			39	12	21	6
	Total	Weightag e %		31%	54%	15%
	Total		255	66	151	38
	Grand Total		<u> </u>	255		