



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR RUBBER INDUSTRY

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- Moulding/Curing Supervisor

SECTOR: RUBBER INDUSTRY **SUB-SECTOR:** 1. Tyre 2. Non-tyre

OCCUPATION: Moulding / Curing

REFERENCE ID: RSC/ Q 0213

ALIGNED TO: NCO-2004/NIL

Brief Job Description: A Moulding/Curing Supervisor is responsible to supervise the moulding and curing of rubber products as well as monitor the curing area with respect to machines, equipments, material and workers.

Personal Attributes: This job requires the individual to have good leadership qualities. He should have strong reasoning and analytical mind set. He should be able to delegate task appropriately considering the ability and availability of manpower in his team. He should be authoritative in delivering commands for work implementation. He should possess effective time management skill for getting the work done in a given time frame . He should keep the team members motivated for carrying out operations efficiently and learning new methods.



Job Details



Qualifications Pack For Moulding/Curing Supervisor

Qualifications Pack Code	RSC/ Q 0213		
Job Role	Moulding/Curing Supervisor		
Credits(NSQF)	TBD	Version number	1.0
Sector	Rubber Manufacturing	Drafted on	02/12/14
Sub-sector	Tyre and Non- tyre	Last reviewed on	02/12/14
Occupation	Moulding / Curing	Next review date	02/12/15
NSQC Clearnace on	20/07/2015		

Job Role	Moulding/Curing Supervisor		
Role Description	A Moulding/Curing Supervisor is responsible to supervise the moulding and curing of rubber products as well as monitor the curing area with respect to machines, equipments, material and workers.		
NSQF level Minimum Educational Qualifications* Maximum Educational Qualifications*	5 XII/Diploma/ITI/Graduate in Science Post Graduate in Science		
Training (Suggested but not mandatory)	Training on latest machines/equipments and human resource management		
Minimum Job Entry Age	18 years		
Experience	Worked for minimum 5 years as moulding/curing operator		
Applicable National Occupational Standards (NOS)	 Compulsory: 1. RSC/ N 0233 (Supervise the preparatory activities for moulding/curing) 2. RSC/N 0234 (Supervise the moulding/curing operations) 3. RSC/N 0235 (Conduct post-moulding/curing supervisory operation) 4. RSC/ N 5001 (To carry out housekeeping) 5. RSC/ N 5002 (To carry out reporting and documentation) 6. RSC/ N 5003 (To carry out quality checks) 7. RSC/ N 5004 (To carry out problem identification and escalation) Optional: 8. NA 		
Performance Criteria	As described in the relevant OS units		







Qualifications Pack For Moulding/Curing Supervisor

Keywords /Terms	Description
Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
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.
Job Role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
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.
NOS	NOS are Occupational Standards which apply uniquely in the Indian context.
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
Qualifications Pack	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.
Unit Code	Unit Code is a unique identifier for an Occupational Standard , which is denoted by an 'N'.
Unit Title	Unit Title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
Organizational Context	Organizational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills or Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.

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National Occupational Standard



Overview

This unit is about supervising the preparatory activities w.r.t. tools, equipments, machine, manpower, material and moulding/curing area.





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Supervise the preparatory activities for moulding/curing

Unit Code	RSC / N 0233		
Unit Title	Supervise the preparatory activities for moulding/curing		
(Task)			
Description	Th unit is about supervising the preparatory activities w.r.t. tools, equipments,		
Scope	machine, manpower, material and moulding/curing area.		
Scope	This unit/task covers the following:		
	Ensure housekeeping and safety in the moulding/curing area		
	Ensure that tools, equipments and presses are well maintained and functioning		
	properly		
	• Ensure adequate trained manpower is available for undertaking moulding/curing		
	operations		
	Ensure the availability of prepared product for curing		
	• Ensure uninterrupted supply of green product for continuos curing/moulding		
	process		
	Ensure the accurate parameter settings for curing presses and proper mold		
	positions		
	Ensure proper molds are in place with required markings for moulding/curing		
Performance Criter	ia (PC) w.r.t. the Scope		
Element	Performance Criteria		
	To be competent, the user/individual on the job must be able to		
	PC1. Ensure that all the equipments and presses are operational		
	PC2. Ensure all tools required for the moulding/curing operations are readily		
	available		
	PC3. Ensure moulds are available as per requirement		
	PC4. Ensure that the identification on moulds (fixed or variable /sequential) are		
Equipment readine	ss available		
	PC5. Ensure regular checks are conducted for moulds and presses for accuracy and		
	readiness for operation		
	PC6. Identify defective equipment and take action as per SOP		
	PC7. Arrange to provide hand tools and safety gears such as masks, gloves etc. for		
	workers before starting the opeartion		
	PC8. Ensure all the services such as steam - low pressure and high pressure , hot		





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Supervise the preparatory activities for moulding/curing

	water , cold water , air etc are available for curing operation
	PC9. Ensure if the temperature and pressure conditions of these services are
	within the specification and specified tolerances
	PC10. Comply with the maintenance schedule and ensure that maintenance
	programme of the presses are carried out on regular basis
	PC11. Ensure that each individual mold position, curing cycle specifications are in
	place
	PC12. Ensure that the operator checks temperature , pressure of the services to the
	individual presses and the mould locations
	PC13. Check if the curing record charts are in place
	PC14. Comply with Mould change schedules
	PC15. Ensure that mold warm up procedures are followed at the start ups as
	specified
	A BAR SAN AND AND AND AND AND AND AND AND AND A
Raw Material Readiness	 PC1. Check the product received for mouldoing/curing is as per the scheduler PC2. Ensure the receiving of correct green product i.e. the material has lab release ID tags or correct code marking PC3. Inspect the material carefully to detect any defcet and report the same to the concerned person before starting the operation and arrange for replacement of affected material in case required PC4. Enaure the services for mulding/curing are available wirh required specified temperature and pressure
Manpower Readiness	 PC5. Ensure that the manpower required for achieving the moulding/curing schedule are available. PC6. Arrange for the substitute in case of absenteeism of any team member due to any injury, accident, leave etc. PC7. Delegate the task and inform the team members well in time about the schedule to be met in the given time frame PC8. Train the manpower for handling emergency situations PC9. Resolving issues (if any) among the team members before the commencement of operations
Health & Safety	 PC1. Ensure that team members adhere to all safety norms (such as wearing protective gloves, masks, goggles and safety shoes). PC2. Avoid skin contact of hot product and other chemicals PC3. Precaution for holding hot product coming out of Press



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Supervise the preparatory activities for moulding/curing

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	PC4. Manage first aid, general medication etc. of the team members
	PC5. Arrange for hospitalization in case of accident
	PC6. Ensure no tampering of safety ropes/switches/extinguishers/alarms fitted on
	the machines or work area
	PC7. Avoid spillage and in case of spillage occur, follow safety measures as laid
	down by safety department
	PC8. Comply with health, safety, environment guidelines and regulations in
	accordance with international/national standards or the organizational
	standards.
Knowledge and Unders	tanding (K)
	The user/individual on the job needs to know and understand:
	KA1. Implications of poorly prepared tools, equipments, machines and manpower.
	KA2. Company's quality policies and acceptance standards for raw materials,
	processed and final product.
	KA3. Organisational Coding system of raw material, compounds and products
	KA4. Importance of identifying non-conforming material.
	KA5. Risk and impact of not following defined procedures/work instructions.
A. Organizational	KA6. Escalation matrix for reporting identified problems.
Context	KA7. Types of documentation in organization and importance of the same.
(Knowledge of the	KA8. Records to be maintained and the implications of their non-maintenance.
company /	KA9. Importance of housekeeping activities.
organization and	KA10. Health, safety and environment guidelines, legislation and regulations as applicable.
its processes)	KA11. Personal and Personnel protection (which protective equipment to be used and how).
	KA12. Impact of poor practices on health, safety and environment.
	KA13.Potential hazards and actions to minimize them.
	KA14. The escalation matrix and procedures for reporting hazards.
	KA15.Impact of various practices on cost, quality, productivity, delivery and safety.
	KA16.Importance of optimal utilization of material, equipment and manpower.
	KA17.Importance of effective human resource management.
	KA18.Importance of achieving the set target in timely manner.
	The user/individual on the job needs to know and understand:
B. Technical	KB1. Various components and operation of curing press
Knowledge	KB2. Knowledge of services such as steam , air, hot water, Nitrogen etc used in
	curing
	KB3. Effect of inaccurate temperature and pressure of services used on curing
	KB4. Effect of improper moulding/curing on performance of product
	KB5. Product defects and the likely reasons for such defects
	KB6. Requirement for extending cures in case of delays or drop in temperature









Supervise the preparatory activities for moulding/curing

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	/pressure of services
	KB7. Importance of correct setting of press parameters
	KB8. Effect of wrong usage of mould and inappropriate parameters
	KB9. Working of latest digital equipments in use for setting different parameters
	KB10. Proper handling of rubber products
	KB11. Use of Computer/application software
	KB12. Effect of wrong markings on moulds
	KB13. Response to emergencies e.g. Power failures, fire and system failures and
	manual intervention to avoid disaster
Skills (S)	
	Writing Skills
	The user/ individual on the job needs to know and understand how to:
	SA1. Express the ideas, lodge complaints and give suggestions through effective
	written communication.
	SA2. Fill up appropriate activity logs in required format of the company
	SA3. Write simple letters, mails, etc
	SA4. Perform functional and advanced mathematical and statistical operations and
	techniques such as estimation and approximation, for practical purposes
	SA5. Prepare and fill up schedules
	SA6. Maintain records in specified format in books and using computers
	Reading and Understanding Skills
	The user/individual on the job needs to know and understand how to:
	SA7. Read and understand manuals, health and safety instructions, memos, reports,
A. Core Skills/	job cards etc
Generic Skills	SA8. Read images, graphs, diagrams
	SA9. Understand the various coding systems as per company norms
	SA10. Understand procedural guidelines
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA11. Express statements, opinions or information clearly so that others can hear
	and understand
	SA12. Respond appropriately to any queries
	SA13. Communicate with other job owners like lab chemist, maintenance manager
	etc.
	SA14. Communication with operators and labourers
	SA15. Instruct the team and encourage the team to adapt behavioral skills required
	to support the group activities.
	SA16. Proficient in the instructional language of the organisation









Supervise the preparatory activities for moulding/curing

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	Integrity		
	The user/individual on the job needs to know and understand how to:		
	SA17. Practice honesty with respect to company property and time		
	SA18. Communicate with people in a form and manner and using language that is open and respectful		
	SA19. Resolve any difficulties in relationships with colleagues , or get help from an		
	appropriate person, in a way that preserves goodwill and trust		
	Motivation		
	The user/individual on the job needs to know and understand how to:		
	SA20. Take responsibility for completing one's own work assignment and the work under supervision		
	SA21. Take initiative to enhance/learn skills in ones's area of work		
	SA22. The capacity to learn from experience in a range of settings and scenarios and		
	the capacity to reflect on and analyse one's learning.		
SA23. Is open to new ways of doing things			
	SA24. The capacity to envisage and articulate personal goals; to develop strategies		
	and take action to achieve them.		
Reliability			
The user/individual on the job needs to know and understand how to:			
	SA25. Avoid absenteeism		
	SA26. Act objectively, rather than impulsively or emotionally when faced with		
	difficult/stressful or emotional situations		
	SA27. Work in disciplined factory environment		
	SA28. Be punctual		
	Material, Equipment and Manpower Handling		
	The user/individual on the job needs to know and understand how to:		
P Drofossional Skills	SB1. Handle tools and equipment and processing with different types of curing		
B. Professional Skills	presses		
	SB2. Handle moulds and rubber products		
	SB3. Handling the coordination among team members		
	SB4. Report team members issues to HR department that is beyond his control		
	Subject Knowledge and Analytical Thinking		









Supervise the preparatory activities for moulding/curing

The user/individual on the job needs to have: SB5. Thorough knowledge of physics, chemistry, mathematics and electronics SB6. Knowledge of GMPs, SOPs and quality standards
 The user/individual on the job needs to know and understand how to: SB7. Diagnose common problems in the material, machines and equipments based on visual inspection and quality checks SB8. Suggest improvements(if any) in process based on experience SB9. Manage time and human resource effectively SB10. Ability to provide proper training to team members SB11. Handling Emergency situations effectively during operations











Supervise the preparatory activities for moulding/curing

NOS Version Control

NOS Code	RSC / N 0233		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	02/12/14
Industry Sub-sector	Tyre and NonTyre	Last reviewed on	02/12/14
Occupation	Moulding / Curing	Next review date	02/12/15



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National Occupational Standard



Overview

This unit is about supervising the moulding/curing operation.









Supervise the moulding/curing operations

Unit Code	RSC / N 0234
Unit Title (Task)	Supervise the moulding/curing operations
Description	This unit is about supervising the moulding/curing operation.
Scope	 This unit/task covers the following: Ensure housekeeping and safety in mixing area. Ensure that all the moulding/curing operations are properly conducted with maximum efficiency , minimum change time, down time and waste.mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm
Performance Criteria	(PC) w.r.t. the Scope
Element	Performance Criteria
Operation	 PC1. Ensure that the operator follows the moulding/curing process as per the authorized instructions issued by technical (manually/through automated operations) PC2. Ensure that the operator follow the sequence to make available different cured products as per the requirement PC3. Ensure all laid out procedures/guidelines are in compliance PC4. Ensure that the work is carried out as per the schedule PC5. Keep a close watch on timer setting , pressure drops and delays in loading /unloading and PCI application PC6. In case of pressure drops , follow the guidelines of technical on cure extension to save the product from getting scrapped or to avoid rubber getting stuck to mold PC7. Ensure that the mould placed is continuously heated and maintained at the proper specified temperature PC8. Keep a check on working of curing press and ensure that press is not left idle PC9. Maintain the continuity of the curing process, complete his/her shift and get the preparatory work done for next shift as well PC10. Check first moulded item for all markings to ensure that the correct product with NO mould realted defects and correct markings are sent to the customer PC11. Monitor press opening and closing time PC12. Ensure no wastage of time during loading and unloading PC13. Ensure that post cure activities are carried out correctly and on time PC14. Check if the operator loads the product properly and follows the shaping cycles as per required specification PC15. Avoid contamination while carrying out the operation PC15. Avoid contamination while carrying out the operation PC16. Check if operator marks down any visible defect once the product is released from molds/presses PC17. Ensure visual inspection of cured product for any defect such as cracks ,









Netional Occupational Standards Supervise the moulding/curing operations

	lights, blisters and blows
Health & Safety	 PC9. Ensure that team members adhere to all safety norms (such as wearing protective gloves, masks, goggles and safety shoes). PC10. Avoid skin contact of hot product and other chemicals PC11. Precaution for holding hot product coming out of Press PC12. Arrange for hospitalization in case of accident PC13. Manage first aid, general medication etc. of the team members PC14. Avoid spillage and in case of spillage occur, follow safety measures as laid down by safety department PC15. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards.
Knowledge and Unders	standing (K)
B. Organizational Context (Knowledge of the company / organization and its processes)	 The user/individual on the job needs to know and understand: KA1. Implications of improperly moulded/cured products. KA2. Optimal utilization of material, machines and manpower. KA3. Organisational Coding system of raw material, compounds and products KA4. Different quality management systems KA5. Importance of identifying non-conforming materials. KA6. Risk and impact of not following defined procedures/work instructions. KA7. Escalation matrix for reporting identified problems. KA8. Types of documentation in organization and importance of the same. KA9. Records to be maintained and the implications of their non-maintenance. KA10. Importance of housekeeping activities. KA11. Health, safety and environment guidelines, legislation and regulations as applicable. KA12. Personal and Personnel protection (which protective equipment to be used and how). KA13. Impact of poor practices on health, safety and environment. KA14. Potential hazards and actions to minimize them. KA15. The escalation matrix and procedures for reporting hazards. KA16. Impact of various practices on cost, quality, productivity, delivery and safety. KA17. Importance of optimal utilization of material, equipment and manpower.
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. Importance of following SOP for moulding and curing









Supervise the moulding/curing operations

	KB2. Moulding and curing operations and equipments in use.			
	KB3. Working of continuous and batch operational curing chamber			
	KB4. Visual examination for under cured as well over cured products			
	KB5. Knowledge of various heating mediums for curing chambers viz steam			
	heating, Thermic fluid heating, Infra red heating, LNG heating and Electric			
	heating			
	KB6. Imporatance of inspecting first cured product out of each mould			
	KB7. Kowledge of various types of heating oven viz continuous and batch type			
	oven.			
	KB8. Heat calculations			
	KB9. Air trapping and humidity controls			
	KB10. Implications of heat expansion and contraction			
	KB11. Heat values of various heating mediums			
	KB12. Usage of utilities needed for heating			
	KB13. Volume of air required to heat up the chambers for proper curing and drying			
	KB14. Control on over curing and under curing of the product			
	KB15. Control of blisters and moisture to avoid degradation of the products.			
	KB16. Dimensional control and shrinkage defects of the products			
	KB17. Cleanliness and safety requirements for moulding and curing operation.			
	KB18. Effect of not following the sequence during curing operation on product			
	properties.			
	KB19. Effect of improper moulding/curing operation on the properties of product.			
	KB20. The process and importance of quality checks.			
	KB21. Types of defects leading to rejections and their indicators, reasons and			
	possible solutions.			
	KB22. Potential problems in curing chamber, ovens and drier operation			
	KB23. Importance of meeting schedules for moulding/curing operation			
	KB24. Implications of delay in operations			
	KB25. Implications of not meeting the quality specifications			
	KB26. Proper monitoring of manpower and machines			
	KB27. Implications of non-confirming product preparation			
	KB28. Importance of maintaining efficiency and attain scheduled target shift wise			
	KB29. Implications of not meeting the requirement of the other departments in			
	timely manner			
Skills (S)				
	Writing Skills			
	The user/individual on the job needs to know and understand how to:			
C. Core Skills/	SA1. Express the ideas, lodge complaints and give suggestions through effective			
Generic Skills	written communication.			
	SA2. Fill up appropriate activity logs in required format of the company			
	SA3. Write simple letters, mails, etc			









Netional Occupational Standards Supervise the moulding/curing operations

SA4. Perform functional and advanced mathematical and statistical operations and
techniques such as estimation and approximation, for practical purposes
SA5. Prepare and fill up schedules
SA6. Write performance reports
SA7. Maintain records in specified format in books and using computers
Reading and Understanding Skills
The user/individual on the job needs to know and understand how to:
SB1. Read and understand manuals, health and safety instructions, memos,
reports, job cards etc
SB2. Read images, graphs, diagrams
SB3. Understand the various coding systems as per company norms
SB4. Understand procedural guidelines
Oral Communication (Listening and Speaking skills)
The user/individual on the job needs to know and understand how to:
SB1. Express statements, opinions or information clearly so that others can hear
and understand
SB2. Respond appropriately to any queries
SB3. Communicate with all team members
SB4. Communicate with other job owners like lab chemist, maintenance manager
etc.
SB5. Instruct the team and encourage the team to adapt behavioral skills required
to support the group activities.
Integrity
The user/individual on the job needs to know and understand how to:
SA29. Practice honesty with respect to company property and time
SA30. Communicate with people in a form and manner and using language that is
open and respectful
SA31. Resolve any difficulties in relationships with colleagues , or get help from an
appropriate person, in a way that preserves goodwill and trust
Motivation
The user/individual on the job needs to know and understand how to:
SA32. Take responsibility for completing one's own work assignment and the work
under supervision
SA33. Take initiative to enhance/learn skills in ones's area of work
SA34. The capacity to learn from experience in a range of settings and scenarios and
the capacity to reflect on and analyse one's learning.
SA35. Is open to new ways of doing things
SA36. The capacity to envisage and articulate personal goals; to develop strategies
and take action to achieve them.



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Netional Occupational Standards Supervise the moulding/curing operations

	Reliability		
	The user/individual on the job needs to know and understand how to:		
	SA37. Avoid absenteeism		
	SA38. Act objectively , rather than impulsively or emotionally when faced with		
	difficult/stressful or emotional situations		
	SA39. Work in disciplined factory environment SA40. Be punctual		
	SA40. Be punctual		
	Material, Equipment and Manpower Handling		
	The user/individual on the job needs to know and understand how to:		
	SB1. Handle processing with curing press		
	SB2. Handle cured products		
	SB3. Handle moulds and ovens		
SB4.Perform computer operationsSB5.Handling the coordination among team members			
			SB6. Report team members issues to HR department that is beyond his control
	Subject Knowledge and Analytical Thinking		
	The user/individual on the job needs to have:		
D. Professional SkillsSB12. Thorough knowledge of physics, chemistry, mathematics and electronic SB13. Knowledge of GMPs, SOPs and quality standards			
	The user/individual on the job needs to know and understand how to:		
	SB14. Diagnose common problems in the moulding/curing operation		
	SB15. Suggest improvements(if any) in process based on experience		
	SB16. Manage time and human resource effectively		
	SB17. Ability to train the team members and develop skill of multi task among the		
team members; so that the schedule is met in case of any injury, a			
	absenteeism etc.		
	SB18. Handling emergency situations effectively		
	SB19. Optimal utilization of material and minimal wastage		
	SB20. Take corrective action for under cured and over cured products		







NOS Version Control

NOS Code	RSC / N 0234		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	02/12/14
Industry Sub-sector	Tyre and NonTyre	Last reviewed on	02/12/14
Occupation	Moulding / Curing	Next review date	02/12/15



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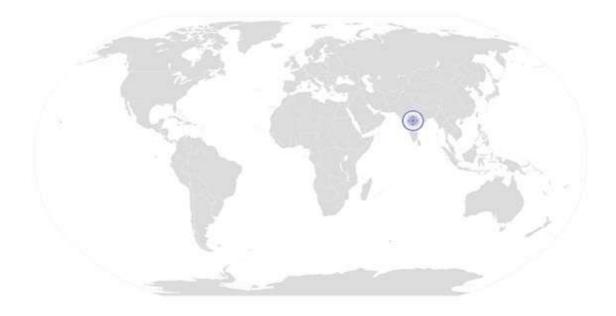






Conduct post-moulding/curing supervisory operations

National Occupational Standard



Overview

This unit is about supervising operations which are carried out after the moulding/curing operation.









Conduct post-moulding/curing supervisory operations

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Unit Code	RSC / N 0235	
Unit Title (Task)	Conduct post- moulding/curing supervisory operations	
Description	This unit is about supervising operations which are carried out after the moulding/curing operations.	
Scope	 This unit/task covers the following: Ensure housekeeping and safety in moulding/curing area Ensure code marking for proper identification Arrange to send sample to lab for testing if required as per SOP Arrange to send the cured product for inspection Maintain Record 	
Performance Criteria (PC) w.r.t. the Scope	
Element	Performance Criteria	
Batch Marking PC1. Ensure identification and traceability by marking/coding for the orac as per the instructions laid down by the technical		
Sampling	PC2. Ensure to send sample of the cured product in the specified sample size and method as directed by the technical department	
	 PC1. Get the the prepared product stored at designated place with proper ID tags and hold until release tags in the allotted storage area . PC2. Ensure the storage is done to facilitate the FIFO PC3. Arrange to send the cured product for inspection PC4. Manage to provide maintenance time for any repair and scheduled long maintenance of curing press and moulds PC5. Arrange to place DO NOT USE tag on product having any defects; either hold it for any other use, reschedule its preparation PC6. Arrange to reschedule themoulding/curing of the affected products PC7. Send the defective/rejected material to hold area and keep the storage space free for OK material 	
Record Maintenance and Reporting	 PC8. Update the production sheet with the details of prepared material and record down time with details on reasons, time from to end and mention action taken to solve the down time PC9. Paper /computer documents must be complete and traceable in all respect PC10. Records of the team members for work done, availability in shift, working 	









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	hours etc
Material Disposal	PC11. Ensure to get the waste material disposed off as per waste disposal/work away procedures laid down by the technical department
Health & Safety	 PC1. Ensure that team members adhere to all safety norms (such as wearing protective gloves, masks, goggles and safety shoes). PC2. Arrange for hospitalization in case of accident PC3. Manage first aid, general medication etc. of the team members PC4. Avoid spillage and in case of spillage occur, follow safety measures as laid down by safety department PC5. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards
Knowledge and Unders	standing (K)
C. Organizational Context (Knowledge of the company / organization and its processes)	 The user/individual on the job needs to know and understand: KA1. Implications of poorly prepared product KA2. Significance of batch marking KA3. Importance of record maintenance. KA4. Organisational Coding system of raw material, compounds and products KA5. Importance of identifying non-conforming material. KA6. Risk and impact of not following defined procedures/work instructions. KA7. Escalation matrix for reporting identified problems. KA8. Types of documentation in organization and importance of the same. KA9. Records to be maintained and the implications of their non-maintenance. KA10. Importance of housekeeping activities. KA11. Health, safety and environment guidelines, legislation and regulations as applicable. KA12. Personal and Personnel protection (which protective equipment to be used and how). KA13. Impact of poor practices on health, safety and environment. KA14. Potential hazards and actions to minimize them. KA15. The escalation matrix and procedures for reporting hazards. KA16. Importance of FIFO KA17. Impact of various practices on cost, quality, productivity, delivery and safety. KA18. Importance of optimal utilization of material, equipment and manpower.



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Conduct post-moulding/curing supervisory operations

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	The user/individual on the job needs to know and understand:		
	KB1. Maintenance of curing preses and moulds		
	KB2. Importance of inspection		
	KB3. Proper handling of defective products		
	KB4. Importance of record maintenance		
	KB5. Importance of timely delivery of prepared product		
	KB6. Effective communication at different levels		
	KB7. Knowledge of traceability		
B. Technical	KB8. Record track of team members		
Knowledge	KB9. Process and importance of quality checks.		
	KB10. Batch marking techniques.		
	KB11. Implications of incorrect batch marking.		
	KB12. Implications of inappropriate waste disposal.		
	KB13. Types of defects leading to rejections and their indicators, reasons and possible		
	solutions.		
	KB14. Coding systems for identification and traceability.		
	KB15. Knowledge of the storage life of prepared product, ambient temperature and		
	its effect on final product.		
	KB16. Removal of waste material and downgraded material from each areas		
	operations to concerned places		
Skills (S)			
Skills (S)	Writing Skills		
Skills (S)	Writing Skills The user/individual on the job, needs to know and understand how to:		
Skills (S)	The user/ individual on the job needs to know and understand how to:		
Skills (S)	The user/ individual on the job needs to know and understand how to: SA1. Express the ideas, lodge complaints and give suggestions through effective		
Skills (S)	The user/individual on the job needs to know and understand how to: SA1. Express the ideas, lodge complaints and give suggestions through effective written communication.		
Skills (S)	 The user/ individual on the job needs to know and understand how to: SA1. Express the ideas, lodge complaints and give suggestions through effective written communication. SA2. Fill up appropriate activity logs in required format of the company 		
Skills (S)	 The user/ individual on the job needs to know and understand how to: SA1. Express the ideas, lodge complaints and give suggestions through effective written communication. SA2. Fill up appropriate activity logs in required format of the company SA3. Write simple letters, mails, etc 		
Skills (S)	 The user/ individual on the job needs to know and understand how to: SA1. Express the ideas, lodge complaints and give suggestions through effective written communication. SA2. Fill up appropriate activity logs in required format of the company SA3. Write simple letters, mails, etc SA4. Perform functional and advanced mathematical and statistical operations and 		
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Skills (S) E. Core Skills/	 The user/ individual on the job needs to know and understand how to: SA1. Express the ideas, lodge complaints and give suggestions through effective written communication. SA2. Fill up appropriate activity logs in required format of the company SA3. Write simple letters, mails, etc SA4. Perform functional and advanced mathematical and statistical operations and techniques such as estimation and approximation, for practical purposes SA5. Prepare and fill up schedules 		
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E. Core Skills/	 The user/ individual on the job needs to know and understand how to: SA1. Express the ideas, lodge complaints and give suggestions through effective written communication. SA2. Fill up appropriate activity logs in required format of the company SA3. Write simple letters, mails, etc SA4. Perform functional and advanced mathematical and statistical operations and techniques such as estimation and approximation, for practical purposes SA5. Prepare and fill up schedules SA6. Maintain records in specified format in books and using computers Reading and Understanding Skills The user/individual on the job needs to know and understand how to: SA1. Read and understand manuals, health and safety instructions, memos, reports, job cards etc SA2. Read images, graphs, diagrams 		
E. Core Skills/	 The user/ individual on the job needs to know and understand how to: SA1. Express the ideas, lodge complaints and give suggestions through effective written communication. SA2. Fill up appropriate activity logs in required format of the company SA3. Write simple letters, mails, etc SA4. Perform functional and advanced mathematical and statistical operations and techniques such as estimation and approximation, for practical purposes SA5. Prepare and fill up schedules SA6. Maintain records in specified format in books and using computers Reading and Understanding Skills The user/individual on the job needs to know and understand how to: SA1. Read and understand manuals, health and safety instructions, memos, reports, job cards etc SA2. Read images, graphs, diagrams SA3. Understand the various coding systems as per company norms 		



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	Oral Communication (Listening and Speaking skills)		
	 The user/individual on the job needs to know and understand how to: SA1. Express statements, opinions or information clearly so that others can hear and understand SA2. Respond appropriately to any queries SA3. Communicate with team members and other job owners SA4. Instruct the team and encourage the team to adapt behavioral skills require to support the group activities. 		
	Integrity		
 The user/individual on the job needs to know and understand how to: SA1. Practice honesty with respect to company property and time SA2. Communicate with people in a form and manner and using language that i open and respectful SA3. Resolve any difficulties in relationships with colleagues , or get help from a appropriate person, in a way that preserves goodwill and trust 			
	Motivation		
	 The user/individual on the job needs to know and understand how to: SA1. Take responsibility for completing one's own work assignment and the work under supervision SA2. Take initiative to enhance/learn skills in ones's area of work SA3. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA4. Is open to new ways of doing things SA5. The capacity to envisage and articulate personal goals; to develop strategies 		
	and take action to achieve them.		
	Reliability		
	 The user/individual on the job needs to know and understand how to: SA1. Avoid absenteeism SA2. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA3. Work in disciplined factory environment SA4. Be punctual 		
	Material, Equipment and Manpower Handling		
F. Professional Skills	The user/individual on the job needs to know and understand how to: SB1. Handle test reports SB2. Handle record books		
	SB3. Handle cured products		







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Perform computer operations SB4. SB5. Track efficiency and waste generation/reduction SB6. Managing pressure and adhereing to strict guidelines/procedures for completing extrusion operation in timely manner SB7. Handling the coordination among team members SB8. Report team members issues to HR department that is beyond his control Subject Knowledge and Analytical Thinking The user/individual on the job needs to have: SB1. Thorough knowledge of physics, chemistry, mathematics and electronics SB2. Knowledge of GMPs, SOPs and quality standards The user/individual on the job needs to know and understand how to: SB3. Diagnose common problems in the moulded/cured products based on visual inspection and quality checks SB4. Suggest improvements(if any) in process based on experience SB5. Manage time and human resource effectively SB6. Ability to provide training to team members SB7. Attaining schedule targets in given timelines











Conduct post-moulding/curing supervisory operations

NOS Version Control

NOS Code	RSC / N 0235		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	02/12/14
Industry Sub-sector	Tyre and NonTyre	Last reviewed on	02/12/14
Occupation	Moulding / Curing	Next review date	02/12/15



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National Occupational Standard



Overview

This unit is about carrying out housekeeping









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	RSC / N 5001	Carry Out Housekeeping Activities		
	Unit Code	RSC / N 5001		
	Unit Title	To carry out housekeeping		
	(Task)			
	Description	This unit is about carrying out housekeeping activities		
5	Scope	This unit/task covers the following:		
		Preparing for housekeeping activitiesCarry out housekeeping activities		
		Post housekeeping activities		
	Performance Criteria (PC) w.r.:	t. the Scope		
	Element	Performance Criteria		
1	Pre housekeeping activities	 To be competent, the user/individual on the job must be able to: PC1. Inspect the area while taking into account various surfaces PC2. Identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain PC3. Ensure that the cleaning equipment is in proper working condition PC4. Select the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person PC5. Plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces PC6. Inform the affected people about the cleaning activity PC7. Display the appropriate signage for the work being conducted PC8. Ensure that there is adequate ventilation for the work being carried out PC9. Wear the personal protective equipment required for the cleaning method and materials being used 		
	Operations	 PC10. Use the correct cleaning method for the work area, type of soiling and surface PC11. Carry out cleaning activity without disturbing others PC12. Deal with accidental damage, if any, caused while carrying out the work PC13. Report to the appropriate person any difficulties in carrying out your work PC14. Identify and report to the appropriate person any additional cleaning required that is outside one's responsibility or skill 		
I	Post housekeeping activities	PC15. Ensure that there is no oily substance on the floor to avoid slippage PC16. Ensure that no scrap material is lying around PC17. Maintain and store housekeeping equipment and supplies		









RUBBER SKILL DEVELOPMENT COUNCIL RSC / N 5001	Netional Cocupational Standards MINISTRY OF SKILL DEVELOPMENT Carry Out Housekeeping Activities		
	PC18. Follow workplace procedures to deal with any accidental damage		
	caused during the cleaning process		
	 PC19. Ensure that, on completion of the work, the area is left clean and dry and meets requirements PC20. Return the equipment, materials and personal protective equipment that were used to the right places making sure they are clean, safe and securely stored 		
	PC21. Dispose the waste garnered from the activity in an appropriate manner		
	PC22. Dispose of used and un-used solutions according to manufacturer's		
	instructions, and clean the equipment thoroughly		
	PC23. Maintain schedules and records for housekeeping duty		
General	PC24. Replenish any necessary supplies or consumables		
Knowledge and Understan	ding (K)		
	The user/individual on the job needs to know and understand:		
	KB1. The levels of hygiene required by workplace and why it is important to maintain them during your work		
	KB2. How to inspect a work area to decide what cleaning it needs		
	KB3. Methods and materials that used for cleaning variety of surfaces		
	KB4. The types of cleansing agents that are not to be mixed together		
	KB5. The correct method for cleaning equipment and/or machinery used		
	during your work		
	KB6. The importance of personal protective equipment		
	KB7. Appropriate personal protective equipment for the work area, cleaning equipment, tools, materials and chemicals used		
A. Technical	KB8. The correct sequence for cleaning the work area		
Knowledge	KB9. The time taken by the treatment to work		
U U	KB10. The importance of following manufacturer's instructions on cleaning agents		
	KB11. The most appropriate place to carry out test cleans and why this should be done before applying treatments		
	KB12. The importance of applying treatments evenly and the effect of not doing this		
	KB13. Process of cleaning the surfaces without causing injury or damage		
	KB14. The method to check the treated surface and equipment on completion of cleaning		
	KB15. Procedures for reporting any unidentified soiling		
	KB16. Procedures for disposing off waste		
	KB17. Procedures for disposing off or storing personal protective equipment		



Skills (S)







Carry Out Housekeeping Activities Writing Skills The user/individual on the job needs to know and understand how to: SA1. Construct simple sentences and express ideas clearly through written communication SA2. Fill up appropriate technical forms, process charts, activity logs in required format of the company SA3. Write simple letters, mails, etc SA4. Perform functional mathematical operations, including apply basic mathematical principles, such as numbers and space, and techniques such as estimation and approximation, for practical purposes **Reading and Understanding Skills** The user/individual on the job needs to know and understand how to: SA5. Read and understand manuals, health and safety instructions, memos, reports, job cards etc SA6 Read images graphs diagrams

	SA6. Read images, graphs, diagrams SA7. Understand the various coding systems as per company norms
	Oral Communication (Listening and Speaking skills)
A. Core Skills/ Generic Skills	The user/individual on the job needs to know and understand how to: SA8. Express statements, opinions or information clearly so that others can hear and understand SA9. Respond appropriately to any queries SA10. Communicate with supervisor SA11. Communicate with upstream and downstream teams
	SA12. Work in a team and other behavioral skills required to support the small group activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
	Integrity
	The user/individual on the job needs to know and understand how to: SA13. Practice honesty with respect to company property and time SA14. Communicate with people in a form and manner and using language that is open and respectful SA15. Resolve any difficulties in relationships with colleagues , or get help
	from an appropriate person, in a way that preserves goodwill and trust Motivation
	The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment
	SA17. Take initiative to enhance/learn skills in ones's area of work
	SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning.









RUBBER SKILL DEVELOPMENT COUNCIL	Netional Occupational Standards	GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT	Transforming the skill	
RSC / N 5001	Carry Out Housekeeping Activities	& ENTREPRENEURSHP		
	SA19. Is open to new ways of doing things	SA19. Is open to new ways of doing things		
	SA20. The capacity to envisage and articulat	SA20. The capacity to envisage and articulate personal goals; to develop		
	strategies and take action to achieve t	strategies and take action to achieve them.		
	Reliability			
	The user/individual on the job needs to kno	w and understand how	to:	
	SA21. Avoid absenteeism			
	SA22. Act objectively , rather than impulsive	SA22. Act objectively , rather than impulsively or emotionally when faced		
	with difficult/stressful or emotional si	tuations		
	SA23. Work in disciplined factory environm	ent		
	SA24. Be punctual			











NOS Code	RSC / N 5001		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	04/06/14
Industry Sub-sector	Tyre and NonTyre	Last reviewed on	14/06/14
Occupation	Moulding/Curing	Next review date	14/06/15



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National Occupational Standard



Overview

This unit is about reporting and documentation









Netional Occupational Standards

RSC / N 5002	To Carry Out Reporting And Documention		
Unit Code	RSC / N 5002		
Unit Title (Task)	To carry out reporting and documentation		
Description	This unit is about carrying out reporting and documentation		
Scope	This unit/task covers the following:Reporting of data/problem/incidents etcDocumentation		
Performance Criteria (I	Information Security O() w.r.t. the Scope		
Element	Performance Criteria		
Reporting	To be competent, the user/individual on the job must be able to: PC1. Report data/problems/incidents as applicable in a timely manner PC2. Report to the appropriate authority as laid down by the company PC3. Follow reporting procedures as prescribed by the company		
Recording and Documentation	 PC4. Identify documentation to be completed relating to one's role PC5. Record details accurately an appropriate format PC6. Complete all documentation within stipulated time according to company procedure PC7. Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly PC8. Make sure documents are available to all appropriate authorities to inspect 		
Information Security	 PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures PC10. Inform the appropriate authority of requests for information received 		
Knowledge and Unders			
B. Technical Knowledge	 The user/individual on the job needs to know and understand: KB1. Different methods of recording information KB2. Various documents that need to be maintained KB3. Company procedure for filling/maintaining up the documents KB4. Procedures for reporting to the appropriate authority KB5. Procedures for recording damage, breakages etc KB6. Reporting incidents where standard operating procedures are not followed KB7. The importance of complete and accurate documentation KB8. How to maintain complete documentation accurately and within agreed timescales KB9. The importance of ensuring that the documents are correct 		









RUBBER SKILL DEVELOPMENT COUNCIL	National Occupational Standards	MINSTRY OF SKILL DEVELOPMENT	Transforming the s	
RSC / N 5002	To Carry Out Reporting And Documention	a chinerheaconana		
	KB10. The actions to be taken if the documents are no	ot correct		
	KB11. The importance of maintaining the security and confidentiality of recorded			
	information KB12. Procedures to maintain confidentiality of information			
	KB13. The appropriate method for responding to requests for information			
	KB14. The reporting procedures to followed before disclosing information to any			
	outside party	U	,	
Skills (S)				
	Writing Skills			
	The user/ individual on the job needs to know and u	nderstand how to:		
	SA1. Construct simple sentences and express ideas	clearly through writte	n	
	communication			
	SA2. Fill up appropriate technical forms, process cha	irts, activity logs in rec	uired	
	format of the company	, , 0		
	SA3. Write simple letters, mails, etc			
	SA4. Perform functional mathematical operations, in	actuding apply basic		
	mathematical principles, such as numbers and	and the second	such as	
			SUCITAS	
	estimation and approximation, for practical pur	poses		
	Reading and Understanding Skills			
	The user/individual on the job needs to know and un	derstand how to:		
	SA5. Read and understand manuals, health and safe	ty instructions, memo	s, reports,	
	job cards etc			
	SA6. Read images, graphs, diagrams			
A. Core Skills/	SA7. Understand the various coding systems as per	company norms		
Generic Skills	Oral Communication (Listening and Speaking skills)			
	The user/individual on the job needs to know and un			
	SA8. Express statements, opinions or information cle	early so that others ca	n hear	
	and understand			
	SA9. Respond appropriately to any queries			
	SA10. Communicate with supervisor			
	SA11. Communicate with upstream and downstream	teams		
	SA12. Work in a team and other behavioral skills requ	ired to support the sn	nall group	
	activities (Quality Circle, Cross Functional Team	, Suggestion Scheme)		
	Integrity			
		1		
	The user/individual on the job needs to know and un			
	SA13. Practice honesty with respect to company prop	-		
	SA14. Communicate with people in a form and manne	er and using language	that is	
	open and respectful			
	lleagues , or get help	from an		
	appropriate person, in a way that preserves go	odwill and trust		









Netonal Cocypational Standards

RSC / N 5002	To Carry Out Reporting And Documention
	Motivation
	The user/individual on the job needs to know and understand how to:
	SA16. Take responsibility for completing one's own work assignment
	SA17. Take initiative to enhance/learn skills in ones's area of work
	SA18. The capacity to learn from experience in a range of settings and scenarios and
	the capacity to reflect on and analyse one's learning.
	SA19. Is open to new ways of doing things
	SA20. The capacity to envisage and articulate personal goals; to develop strategies
	and take action to achieve them.
	Reliability
	The user/individual on the job needs to know and understand how to:
	SA21. Avoid absenteeism
	SA22. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA23. Work in disciplined factory environment
	SA24. Be punctual





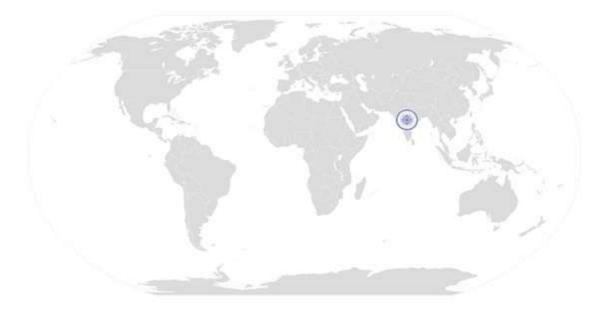






To Carry Out Reporting And Documention

NOS Code	RSC / N 5002		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	04/06/14
Industry Sub-sector	Tyre and NonTyre	Last reviewed on	14/06/14
Occupation	Moulding/Curing	Next review date	14/06/15



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National Occupational Standard



Overview

This unit is about carrying out quality checks



NOS Netonal Coopetional Standards To Carry Out Quality Checks





Unit Code	RSC / N 5003
Unit Title	
(Task)	To carry out quality checks
Description	This unit is about carrying out quality control activities
Scope	This unit/task covers the following:
	Carrying out quality checks to identify problems
	Take corrective actions
	Reporting the results
Performance Crite	ria (PC) w.r.t. the Scope
Element	Performance Criteria
	To be competent, the user/individual on the job must be able to: PC1. Ensure that total range of checks are regularly and consistently performed
Inspection	PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as
	required
	PC3. Identify non-conformities to quality assurance standards
	PC4. Identify potential causes of non-conformities to quality assurance standards
	PC5. Identify impact on final product due to non-conformance to company
Analysis	standards
	PC6. Evaluating the need for action to ensure that problems do not recur
	PC7. Suggest corrective action to address problem
	PC8. Review effectiveness of corrective action
	PC9. Interpret the results of the quality check correctly
	PC10. Take up results of the findings with QC in charge/appropriate authority.
	PC11. Take up the results of the findings within stipulated time
Reporting	PC12. Record of results of action taken
	PC13. Record adjustments not covered by established procedures for future reference
	PC14. Review effectiveness of action taken
	PC15. Follow reporting procedures where the cause of defect cannot be identified
Knowledge and U	
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. The importance of quality control procedures
	KB2. Relevance and importance of activities and how they contribute to the









RUBBER SKILL DEVELOPMENT COUNCIL	National Occupational Standards Stan
RSC / N 5003	To Carry Out Quality Checks
	achievement of the quality objectives,
	KB3. Proper procedure for selecting the material/product and performing quality
	checks without affecting the material
	KB4. Availability of work instructions, as necessary,
	KB5. Characteristics of the product/material
	KB6. Use of suitable equipment
	KB7. Availability and use of monitoring and measuring devices,
	KB8. Requirements of records
	KB9. Importance of maintaining accurate up-to-date records
	KB10. The need to report within the stipulated time
	KB11. Implications of inaccurate measuring and testing instruments and equipment
	KB12. The cost of non-conformance to quality standards
	KB13. Implications (impact on internal/external customers) of defective products,
	materials or components
Skills (S)	
	Writing Skills
	The user/ individual on the job needs to know and understand how to:
	SA1. Construct simple sentences and express ideas clearly through written
	communication
	SA2. Fill up appropriate technical forms, process charts, activity logs in required
	format of the company
	SA3. Write simple letters, mails, etc
	SA4. Perform functional mathematical operations, including apply basic
	mathematical principles, such as numbers and space, and techniques such as
	estimation and approximation, for practical purposes
	Reading and Understanding Skills
A. Core Skills/	The user/individual on the job needs to know and understand how to:
Generic Skills	SA5. Read and understand manuals, health and safety instructions, memos, reports,
	job cards etc
	SA6. Read images, graphs, diagrams
	SA7. Understand the various coding systems as per company norms
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA8. Express statements, opinions or information clearly so that others can hear
	and understand
	SA9. Respond appropriately to any queries
	SA10. Communicate with supervisor
	SA11. Communicate with upstream and downstream teams
	SA12. Work in a team and other behavioral skills required to support the small group
	activities (Quality Circle, Cross Functional Team, Suggestion Scheme)



NOS Netional Occupational Standards





To Carry Out Quality Checks

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Integrity
The user/individual on the job needs to know and understand how to:
SA13. Practice honesty with respect to company property and time
SA14. Communicate with people in a form and manner and using language that is
open and respectful
SA15. Resolve any difficulties in relationships with colleagues , or get help from an
appropriate person, in a way that preserves goodwill and trust
Motivation
The user/individual on the job needs to know and understand how to:
SA16. Take responsibility for completing one's own work assignment
SA17. Take initiative to enhance/learn skills in ones's area of work
SA18. The capacity to learn from experience in a range of settings and scenarios ar
the capacity to reflect on and analyse one's learning.
SA19. Is open to new ways of doing things
SA20. The capacity to envisage and articulate personal goals; to develop strategies
and take action to achieve them.
Reliability
The user/individual on the job needs to know and understand how to:
SA21. Avoid absenteeism
SA22. Act objectively , rather than impulsively or emotionally when faced with
difficult/stressful or emotional situations
SA23. Work in disciplined factory environment
SA24. Be punctual

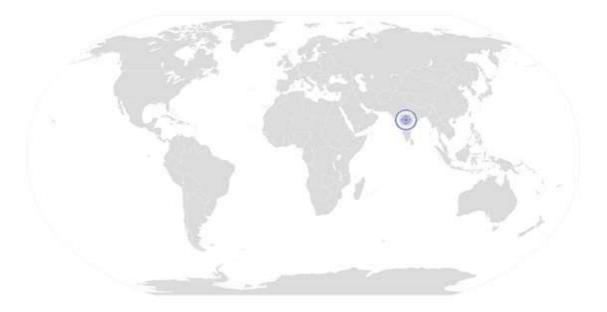








NOS Code	RSC / N 5003				
Credits(NSQF)	TBD	Version number	1.0		
Industry	Rubber Manufacturing	Drafted on	04/06/14		
Industry Sub-sector	Tyre and NonTyre	Last reviewed on	14/06/14		
Occupation	Moulding/Curing	Next review date	14/06/15		



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the skill landsca

To Carry Out Problem Identification And Escalation

National Occupational Standard



Overview

This unit is about problem identification and escalation









Netonal Occupational Standards To Carry Out Problem Identification And Escalation

RSC / N 5004
To carry out problem identification and escalation
This unit is about problem identification and escalation
This unit/task covers the following:
Identify problems across:
- Raw materials
- Compounds
- Product
- Equipment
- Others
Identify solutions to problems
Take corrective action
Escalation of unresolved identified problems
(PC) w.r.t. the Scope
Performance Criteria
To be competent, the user/individual on the job must be able to:
PC1. Identify defects/indicators of problems
PC2. Identify any wrong practices that may lead to problems
PC3. Identify practices that may impact the final product quality
PC4. Identify if the problem has occurred before
PC5. Identify other operations that might be impacted by the problem
PC6. Ensure that no delays are caused as a result of failure to escalate problems
PC7. Take appropriate materials and sample, conduct tests and evaluate results to
establish reasons to confirm suspected reasons for non-conformance (where required)
PC8. Consider possible reasons for identification of problems
PC9. Consider applicable corrections and formulate corrective action
PC10. Formulate action in a timely manner
PC11. Communicate problem/remedial action to appropriate parties
PC12. Take corrective action in a timely manner
PC13. Take corrective action for problems identified according to the company
procedures
PC14. Report/document problem and corrective action in an appropriate manner
PC15. Monitor corrective action
PC16. Evaluate implementation of corrective action taken to determine if the









RUBBER SKILL DEVELOPMENT COUNCIL	National Occupational Standards GOVERNMENT OF INDIA Transforming the					
RSC / N 5004	To Carry Out Problem Identification And Escalation					
	problem has been resolved					
	PC17. Ensure that corrective action selected is viable and practical					
	PC18. Ensure that correct solution is identified to an identified problem					
	PC19. Take corrective action for problems identified according to the company					
	procedures					
	PC20. Ensure that no delays are caused as a result of failure to take necessary action					
	PC21. Escalate problem as per laid down escalation matrix					
	PC22. Escalate the problem within stipulated time					
Problem Escalation	PC23. Escalate the problem in an appropriate manner					
	PC24. Ensure that no delays are caused as a result of failure to escalate problems					
Knowledge and Unde	rstanding (K)					
	The user/individual on the job needs to know and understand:					
	KB1. Indicators of problems					
	KB2. The working of the equipment and accessories(if applicable)					
	KB3. The impact of operations on the user and equipment(if applicable)					
	KB4. The impact of operations on the final product (if applicable)					
	KB5. The effect of not rectifying the problems identified					
	KB6. The reason for the occurrence of previous problems					
D. Tashrical	KB7. Measures and steps that have been taken to address the previous problems					
B. Technical	KB8. Possible solutions for various problems					
Knowledge						
	KB9. The correct method for carrying out corrective actions outlined for each					
	problem					
	KB10. The impact of not carrying out the corrective actions					
	KB11. The documentation procedure for recording such problems, as per company					
	norms					
	KB12. The escalation matrix for reporting problems					
	KB13. Escalation matrix for reporting unresolved problems					
	KB14. The time frame within which in which each problem needs to be escalated					
	KB15. Manner in which each problem needs to be escalated					
Skills (S)						
	Writing Skills					
	The user/ individual on the job needs to know and understand how to:					
	SA1. Construct simple sentences and express ideas clearly through written					
A. Core Skills/	communication					
Generic Skills	SA2. Fill up appropriate technical forms, process charts, activity logs in required					
Generic Skills	format of the company					
	SA3. Write simple letters, mails, etc					
	SA4. Perform functional mathematical operations, including apply basic					
	mathematical principles, such as numbers and space, and techniques such as					









To Carry Out Problem Identification And Escalation

estimation and approximation, for practical purposes

Reading and Understanding Skills

The user/individual on the job needs to know and understand how to:

- SA5. Read and understand manuals, health and safety instructions, memos, reports, job cards etc
- SA6. Read images, graphs, diagrams
- SA7. Understand the various coding systems as per company norms

Oral Communication (Listening and Speaking skills)

The user/individual on the job needs to know and understand how to:

- SA8. Express statements, opinions or information clearly so that others can hear and understand
- SA9. Respond appropriately to any queries

SA10. Communicate with supervisor

- SA11. Communicate with upstream and downstream teams
- SA12. Work in a team and other behavioral skills required to support the small group activities (Quality Circle, Cross Functional Team, Suggestion Scheme)

Integrity

The user/individual on the job needs to know and understand how to:

- SA13. Practice honesty with respect to company property and time
- SA14. Communicate with people in a form and manner and using language that is open and respectful
- SA15. Resolve any difficulties in relationships with colleagues , or get help from an appropriate person, in a way that preserves goodwill and trust

Motivation

The user/individual on the job needs to know and understand how to:

- SA16. Take responsibility for completing one's own work assignment
- SA17. Take initiative to enhance/learn skills in ones's area of work
- SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning.
- SA19. Is open to new ways of doing things
- SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them.

Reliability

The user/individual on the job needs to know and understand how to:

SA21. Avoid absenteeism

- SA22. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations
- SA23. Work in disciplined factory environment
- SA24. Be punctual









To Carry Out Problem Identification And Escalation

NOS Version Control

NOS Code	RSC / N 5004					
Credits(NSQF)	TBD	Version number	1.0			
Industry	Rubber Manufacturing	Drafted on	04/06/14			
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CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Moulding/Curing Supervisor

Qualification Pack RSC/ Q 0213

Sector Skill Council Rubber Skill Development 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 and Skills Practical for each PC

2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC

3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)

4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria

5. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS

6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

			Marks Allocation		
NOS	Elements	Performance Criteria	Total	Theory	Practical
RSC / N 0233		PC1. Ensure that all the equipments and presses are operational	1	0	1
Supervise the preparatory activities for moulding/curi	Equipment	PC2. Ensure all tools required for the moulding/curing operations are readily available	1	0	1
	readiness	PC3. Ensure moulds are available as per requirement	2	0	2
		PC4. Ensure that the identification on moulds (fixed or variable /sequential) are	6	4	2

ng		available			
		PC5. Ensure regular checks are conducted for moulds and presses for accuracy and readiness for operation	4	4	0
		PC6. Identify defective equipment and take action as per SOP	12	6	6
		PC7. Arrange to provide hand tools and safety gears such as masks, gloves etc. for workers before starting the opeartion	2	0	2
		PC8. Ensure all the services such as steam - low pressure and high pressure , hot water , cold water , air etc are available for curing operation	3	0	3
		PC9. Ensure if the temperature and pressure conditions of these services are within the specification and specified tolerances	8	4	4
		PC10. Comply with the maintenance schedule and ensure that maintenance programme of the presses are carried out on regular basis	3	3	0
		PC11. Ensure that each individual mold position, curing cycle specifications are in place	6	4	2
		PC12. Ensure that the operator checks temperature , pressure of the services to the individual presses and the mould locations	6	3	3
		PC13. Check if the curing record charts are in place	3	3	0
		PC14. Comply with Mould change schedules	2	2	0
		PC15. Ensure that mold warm up procedures are followed at the start ups as specified	2	0	2
		PC16. Check the product received for mouldoing/curing is as per the scheduler	2	2	0
		PC17. Ensure the receiving of correct green product i.e. the material has lab release ID tags or correct code marking	2	2	0
	Raw Material Readiness	PC18. Inspect the material carefully to detect any defcet and report the same to the concerned person before starting the operation and arrange for replacement of affected material in case required	9	6	3
		PC19. Ensure the services for mulding/curing are available wirh required specified temperature and pressure	2	2	0
	Manpower	PC20. Ensure that the manpower required for achieving the moulding/curing schedule are available.	1	1	0
	Readiness	PC21. Arrange for the substitute in case of absenteeism of any team member due to any injury, accident, leave etc.	1	1	0

		PC22. Delegate the task and inform the team members well in time about the schedule to be met in the given time frame	1	1	0
		PC23. Train the manpower for handling emergency situations	1	1	0
		PC24. Resolving issues (if any) among the team members before the commencement of operations	2	2	0
		PC25. Ensure that team members adhere to all safety norms (such as wearing protective gloves,masks, goggles and safety shoes).	4	2	2
		PC26. Avoid skin contact of hot product and other chemicals	4	2	2
		PC27. Precaution for holding hot product coming out of Press	2	0	2
		PC28. Manage first aid, general medication etc. of the team members	1	1	0
	Health & Safety	PC29. Arrange for hospitalization in case of accident	1	1	0
	ficultin & Surety	PC30. Ensure no tampering of safety ropes/switches/extinguishers/alarms fitted on the machines or work area	1	0	1
		PC31. Avoid spillage and in case of spillage occur , follow safety measures as laid down by safety department	4	2	2
		PC32. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards.	1	1	0
			100	60	40
		PC1. Ensure that the operator follows the moulding/curing process as per the authorized instructions issued by technical (manually/through automated operations)	8	2	6
		PC2. Ensure that the operator follow the sequence to make available different cured products as per the requirement	9	3	6
RSC / N 0234		PC3. Ensure all laid out procedures/guidelines are in compliance	5	2	3
Supervise the moulding/curi	Operation	PC4. Ensure that the work is carried out as per the schedule	3	3	0
ng operations		PC5. Keep a close watch on timer setting , pressure drops and delays in loading /unloading and PCI application	2	0	2
		PC6. In case of pressure drops , follow the guidelines of technical on cure extension to save the product from getting scrapped or to avoid rubber getting stuck to mold	6	2	4
		PC7. Ensure that the mould placed is continuously heated and maintained at the proper specified temperature	4	0	4

		PC8. Keep a check on working of curing press and ensure that press is not left idle	2	0	2
		PC9. Maintain the continuity of the curing process, complete his/her shift and get the preparatory work done for next shift as well	2	2	0
		PC10. Check first moulded item for all markings to ensure that the correct product with NO mould realted defects and correct markings are sent to the customer	7	3	4
		PC11. Monitor press opening and closing time	2	0	2
		PC12. Ensure no wastage of time during loading and unloading	2	2	0
		PC13. Ensure that post cure activities are carried out correctly and on time	2	2	0
		PC14. Check if the operator loads the product properly and follows the shaping cycles as per required specification	4	0	4
		PC15. Avoid contamination while carrying out the operation	5	2	3
		PC16. Check if operator marks down any visible defect once the product is released from molds/presses	6	2	4
		PC17. Ensure visual inspection of cured product for any defect such as cracks , lights, blisters and blows	12	6	6
		PC18. Ensure that team members adhere to all safety norms (such as wearing protective gloves,masks, goggles and safety shoes).	6	2	4
		PC19. Avoid skin contact of hot product and other chemicals	4	2	2
		PC20. Precaution for holding hot product coming out of Press	2	0	2
	Health & Safety	PC21. Arrange for hospitalization in case of accident	1	1	0
	Thealth & Salety	PC22. Manage first aid, general medication etc. of the team members	1	1	0
		PC23. Avoid spillage and in case of spillage occur , follow safety measures as laid down by safety department	4	2	2
		PC24. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards.	1	1	0
			100	40	60
RSC / N 0235 Conduct post-	Batch Marking	PC1. Ensure identification and traceability by marking/coding for the cured product as per the instructions laid down by the technical	13	8	5
moulding/curi ng supervisory	Sampling	PC2. Ensure to send sample of the cured product in the specified sample size and method as directed by the technical department	7	3	4
operations	Operation	PC3. Get the the prepared product stored at designated place with proper ID tags	6	3	3

		and hold until release tags in the allotted storage area .			
		PC4. Ensure the storage is done to facilitate the FIFO	7	3	4
		PC5. Arrange to send the cured product for inspection	6	6	0
		PC6. Manage to provide maintenance time for any repair and scheduled long maintenance of curing press and moulds	2	2	0
		PC7. Arrange to place DO NOT USE tag on product having any defects; either hold it for any other use, reschedule its preparation	7	4	3
		PC8. Arrange to reschedule themoulding/curing of the affected products	3	3	0
		PC9. Send the defective/rejected material to hold area and keep the storage space free for OK material	4	4	0
	Record	PC10. Update the production sheet with the details of prepared material and record down time with details on reasons, time from to end and mention action taken to solve the down time	13	3	10
	Maintenance	PC11. Paper /computer documents must be complete and traceable in all respect	9	6	3
	and Reporting	PC12. Records of the team members for work done, availability in shift, working hours etc	3	3	0
	Material Disposal	PC13. Ensure to get the waste material disposed off as per waste disposal/work away procedures laid down by the technical department	3	0	3
		PC14. Ensure that team members adhere to all safety norms (such as wearing protective gloves,masks, goggles and safety shoes).	6	4	2
		PC15. Arrange for hospitalization in case of accident	1	1	0
	Uselth Q Cefet.	PC16. Manage first aid, general medication etc. of the team members	2	2	0
	Health & Safety	PC17. Avoid spillage and in case of spillage occur , follow safety measures as laid down by safety department	6	3	3
		PC18. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards	2	2	0
			100	60	40
	_	PC1. Inspect the area while taking into account various surfaces	3	3	0
RSC/N5001 To Carry Out	Pre housekeeping	PC2. Identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain	3	3	0
Housekeeping	activities	PC3. Ensure that the cleaning equipment is in proper working condition	3	3	0

	PC4. Select the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person	3	3	C
	PC5. Plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces	3	3	(
	PC6. Inform the affected people about the cleaning activity	2	2	(
	PC7. Display the appropriate signage for the work being conducted	3	3	(
	PC8. Ensure that there is adequate ventilation for the work being carried out	3	3	(
	PC9. Wear the personal protective equipment required for the cleaning method and materials being used	3	3	
	PC10. Use the correct cleaning method for the work area, type of soiling and surface	3	3	(
	PC11. Carry out cleaning activity without disturbing others	3	3	(
Operations	PC12. Deal with accidental damage, if any, caused while carrying out the work	3	3	
Operations	PC13. Report to the appropriate person any difficulties in carrying out your work	3	3	
	PC14. Identify and report to the appropriate person any additional cleaning required that is outside one's responsibility or skill	3	3	
	PC15. Ensure that there is no oily substance on the floor to avoid slippage	9	3	
	PC16. Ensure that no scrap material is lying around	9	3	
	PC17. Maintain and store housekeeping equipment and supplies	3	3	
Post	PC18. Follow workplace procedures to deal with any accidental damage caused during the cleaning process	3	3	
housekeeping activities	PC19. Ensure that, on completion of the work, the area is left clean and dry and meets requirements	8	2	
	PC20. Return the equipment, materials and personal protective equipment that were used to the right places making sure they are clean, safe and securely stored	3	3	
	PC21. Dispose the waste garnered from the activity in an appropriate manner	9	3	
	PC22. Dispose of used and un-used solutions according to manufacturer's instructions, and clean the equipment thoroughly	9	3	
	PC23. Maintain schedules and records for housekeeping duty	3	3	
General	PC24. Replenish any necessary supplies or consumables	3	3	
		100	70	3

RSC/N5002 To Carry Out Reporting And Documentatio n	Reporting	PC1. Report data/problems/incidents as applicable in a timely manner	12	8	4
		PC2. Report to the appropriate authority as laid down by the company	12	8	4
		PC3. Follow reporting procedures as prescribed by the company	12	8	4
	Recording and Documentation	PC4. Identify documentation to be completed relating to one's role	10	6	4
		PC5. Record details accurately an appropriate format	16	6	10
		PC6. Complete all documentation within stipulated time according to company procedure	14	4	10
		PC7. Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly	6	4	2
		PC8. Make sure documents are available to all appropriate authorities to inspect	6	4	2
	Information Security	PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures	6	6	0
		PC10. Inform the appropriate authority of requests for information received	6	6	0
			100	60	40
	Inspection	PC1. Ensure that total range of checks are regularly and consistently performed	24	10	14
		PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as required	24	10	14
	Analysis	PC3. Identify non-conformities to quality assurance standards	6	4	2
		PC4. Identify potential causes of non-conformities to quality assurance standards	5	3	2
		PC5. Identify impact on final product due to non-conformance to company standards	5	3	2
		PC6. Evaluating the need for action to ensure that problems do not recur	6	4	2
RSC/N5003 To Carry Out Quality Checks		PC7. Suggest corrective action to address problem	5	3	2
		PC8. Review effectiveness of corrective action	5	3	2
	Reporting	PC9. Interpret the results of the quality check correctly	4	4	0
		PC10. Take up results of the findings with QC in charge/appropriate authority.	3	3	0
		PC11. Take up the results of the findings within stipulated time	3	3	0
		PC12. Record of results of action taken	3	3	0
		PC13. Record adjustments not covered by established procedures for future reference	3	3	0
		PC14. Review effectiveness of action taken	2	2	0

		PC15. Follow reporting procedures where the cause of defect cannot be identified	2	2	0
			100	60	40
		PC1. Identify defects/indicators of problems	7	4	3
	Problem Identification	PC2. Identify any wrong practices that may lead to problems	6	3	3
		PC3. Identify practices that may impact the final product quality	6	3	3
		PC4. Identify if the problem has occurred before	5	3	2
		PC5. Identify other operations that might be impacted by the problem	6	4	2
		PC6. Ensure that no delays are caused as a result of failure to escalate problems	5	3	2
		PC7. Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required)	8	5	3
		PC8. Consider possible reasons for identification of problems	8	5	3
	Necessary Action	PC9. Consider applicable corrections and formulate corrective action	3	3	0
		PC10. Formulate action in a timely manner	3	3	0
RSC/N5004		PC11. Communicate problem/remedial action to appropriate parties	7	5	2
To Carry Out Problem Identification And Escalation		PC12. Take corrective action in a timely manner	2	2	0
		PC13. Take corrective action for problems identified according to the company procedures	2	2	0
		PC14. Report/document problem and corrective action in an appropriate manner	8	5	3
		PC15. Monitor corrective action	2	2	0
		PC16. Evaluate implementation of corrective action taken to determine if the problem has been resolved	2	2	0
		PC17. Ensure that corrective action selected is viable and practical	2	2	0
		PC18. Ensure that correct solution is identified to an identified problem	2	2	0
		PC19. Take corrective action for problems identified according to the company procedures	1	1	0
		PC20. Ensure that no delays are caused as a result of failure to take necessary action	1	1	0
	Problem Escalation	PC21. Escalate problem as per laid down escalation matrix	4	3	1
		PC22. Escalate the problem within stipulated time	4	3	1
		PC23. Escalate the problem in an appropriate manner	3	2	1

	PC24. Ensure that no delays are caused as a result of failure to escalate problems	3	2	1
		100	70	30