





QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR RUBBER INDUSTRY

What are Occupational Standards(OS)?

- Solution OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- 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-Mixing Supervisor

SECTOR: RUBBER INDUSTRY

SUB-SECTOR: 1. Tyre 2. Non-tyre

OCCUPATION: Mixing

REFERENCE ID: RSC/ Q 0111

ALIGNED TO: NCO-2004/NIL

Brief Job Description: A Mixing Supervisor is responsible to supervise all the processes involved in mixing operation that is being carried out to prepare the master batch and final batch of rubber compound in Banbury /Mixer/ Kneader and/or Open Mill. He is responsible to monitor and manage the mixing area w.r.t machines, equipments, manpower and material.

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 Mixing Supervisor

Qualifications Pack Code	RSC/ Q 0111		
Job Role		Mixing 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	Mixing	Next review date	02/12/15
NSQC Clearnace on	20/07/2015		

Job Role	Mixing Supervisor	
Role Description	A Mixing Supervisor is responsible to supervise all the processes involved in mixing operation that is being carried out to prepare the master batch and final batch of rubber compound in Banbury /Mixer/ Kneader and/or Open Mill. Process involves receiving raw material from stores, weighing for batch mixing, identification and storing of mixed compounds and supply compounds to user areas. This also involves submitting samples to lab and getting the batches released for the next stage of production.	
NSQF level	5	
Minimum Educational Qualifications*	XII/Diploma/ITI/Graduate in Science	
Maximum Educational Qualifications*	Post Graduate in Science	
Training	Training on latest machines/equipments and human resource	
(Suggested but not mandatory)	management	
Minimum Job Entry Age	18 years	
Experience	Worked for minimum 5 years in the roles related to mixing	
	operations	
Applicable National Occupational Standards (NOS)	 Compulsory: RSC/N 0130 (Supervise the preparatory activities for mixing) RSC/N 0131 (Supervise the mixing operations) RSC/N 0132 (Conduct post-mixing supervisory operation) RSC/N 5001 (To carry out housekeeping) RSC/N 5002 (To carry out reporting and documentation) RSC/N 5003 (To carry out quality checks) RSC/N 5004 (To carry out problem identification and escalation) Optional: NA	
Performance Criteria	As described in the relevant OS units	







Qualifications Pack For Mixing 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.







National Occupational Standard



Overview

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



NOS Nettonal Occupational Standards





BBER SKILL DEVELOPMENT COUNCIL SC / N 0130	Supervise the preparatory activities for mixing Supervise the preparatory activities for mixing Supervise the preparatory activities for mixing Skill D Corpor Transforming the si
Unit Code	RSC / N 0130
Unit Title (Task)	Supervise the preparatory activities for mixing
Description	Th unit is about supervising the preparatory activities w.r.t. tools, equipments, machine, manpower, material and mixing area.
Scope	 This unit/task covers the following: Ensure housekeeping and safety in the mixing area Ensure that tools, equipments and machines are well maintained and functioning properly Ensure adequate trained manpower is available for undertaking mixing operations Ensure that compound requirements/specifications are available in writing Monitor that the raw material required and its uninterrupted flow Ensure the accurate parameter settings for machines
Performance Criteria (Element	PC) w.r.t. the Scope Performance Criteria
	To be competent, the user/individual on the job must be able to PC1. Ensure that all the equipments and machines are operational PC2. Ensure all tools required for the mixer area operations are readily available PC3. Ensure regular checks are conducted for machines for accuracy and readiness for operation PC4. Identify defective equipment and take action as per SOP PC5. Set pressure and other parameters; set mixing time and follow the sequence to make available different compound mix as per the requirement
Equipment readiness	PC6. In case settings on automated mixer are set by technical associates, ensure operator doesn't fiddle with settings and follows only authorized settings PC7. Arrange to provide tools like mill knives, butcher knives masks, gloves, rags etc. for workers before starting the mixing opeartion

PC8. Ensure that all services such as steam, water ,electricity, etc are available at all

PC9. Comply with the maintenance schedule and ensure that maintenance

programme of the mixer are carried out on regular basis

PC10. Batch off mill gauge and proper cooling water flow .

times



Supervise the preparatory activities for mixing





	& ENTREPREMEURSHIP
	PC11. Roller die set up .
Raw Material Readiness	 PC1. Check the material coming from raw material stores and confirm that it is as per the scheduler PC2. Ensure the receiving of correct material in mixing area i.e. the material has lab release ID tags or colour code marking PC3. Inspect the material carefully to detect torn bag, contaminated material etc. and report the same to the stores supervisor and his foreman before starting the mixing operation and arrange for replacement of affected material in case required PC4. Get thepigments /chemicals filled in the appropriate bins for facilitating weighing PC5. Ensure polymer bales or precut and are kept near the put up conveyors for final weighing and charging into mixer when the mixing operation commences PC6. Ensure functioning of carbon black manual or auto feeders PC7. Ensure functioning of process oil manual or auto feeding units PC8. Ensure availability of slab dip or dip slurry for cooling and using as separating agents for mixed compound slabs/sheets
Manpower Readiness	 PC9. Ensure that the manpower required for achieving the compound mix schedule are available. PC10. Arrange for the substitute in case of absenteeism of any team member due to any injury, accident, leave etc. PC11. Delegate the task and inform the team members well in time about the mixing schedule to be met in the given time frame PC12. Train the manpower for handling emergency situations PC13. Resolving issues (if any) among the team members before the commencement of mixing operations
Health & Safety	PC14. Ensure that team members adhere to all safety norms (such as wearing protective gloves,masks, goggles and safety shoes). PC15. Manage first aid, general medication etc. of the team members PC16. Arrange for hospitalization in case of accident PC17. Ensure no tampering of safety ropes/switches/extinguishers/alarms fitted on the machines or mixer area PC18. Avoid spillage and in case of spillage occur, follow safety measures as laid down by safety department PC19. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational



National Cooperational Standards Supervise the preparatory activities for mixing





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	standards.
Knowledge and Under	standing (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 . Owen win at in wal	KA6. Escalation matrix for reporting identified problems.
A. Organizational	KA7. Types of documentation in organization and importance of the same.
Context	KA8. Records to be maintained and the implications of their non-maintenance.
(Knowledge of the	KA9. Importance of housekeeping activities.
company /	KA10. Health, safety and environment guidelines, legislation and regulations as
organization and	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 week findividual on the ich peeds to linew and wederstand
	The user/individual on the job needs to know and understand:
	KB1. Rubber compound processing with different types of Mixers.
	KB2. Proper handling of rubbers & chemicals
	KB3. Importance of proper weighing of rubber and other ingredients
B. Technical	KB4. Effect of wrong weighing of ingredients
Knowledge	KB5. Different type of Mixers and their operation
Miowicage	KB6. Process of proper compound mixing and ingredient dispersion
	KB7. Effect of improper processing on properties of rubber compound & product
	KB8. Importance of effective time and human resource management
	KB9. Relevance of addressing issues with superiors / HR that is beyond his control
	KB10. Specifications of materials and its importance in the compound preparation
	KB11. Implications (impact on internal/external customers) of defective products,
	materials or components.
	KB12. Material Safety Data Sheets (MSDS) for all the materials used









	& ENTREPRENEURSHS
	KB13. MSDS for all incoming raw materials
	KB14. Use of Computer/application software
	KB15. 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, job cards etc
A. Core Skills/	SA8. Read images, graphs, diagrams
Generic Skills	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 stororage operator,lab chemist,
	maintenance manager etc.
	SA14. Communication with 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
	Internity.
	Integrity









Supervise the preparatory activities for mixing

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	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:
	SB1. Handle tools and equipment and processing with different types of mixers
	SB2. Handle raw materials required for compound preparation
6 1 101111	SB3. Handle rubber and chemicals
B. Professional Skills	SB4. Perform computer operations
	SB5. The capacity to apply technology, combining the physical and sensory skills
	needed to operate equipment with the understanding of scientific and
	technological principles needed to explore and adapt systems.
	SB6. Handling the coordination among team members
	SB7. Report team members issues to HR department that is beyond his control
	Subject Knowledge and Analytical Thinking









Supervise the preparatory activities for mixing

The user/individual on the job needs to have:

SB8. Thorough knowledge of physics, chemistry, mathematics and electronics

SB9. Knowledge of GMPs, SOPs and quality standards

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

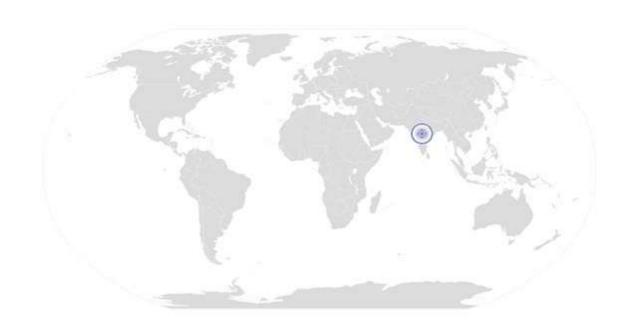
SB10. Diagnose common problems in the material, machines and equipments based on visual inspection and quality checks

SB11. Suggest improvements(if any) in process based on experience

SB12. Manage time and human resource effectively

SB13. Ability to demonstrate proper training to team members/

SB14. Handling Emergency situations effectively during operations











NOS Version Control

NOS Code	RSC / N 0130		
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	Mixing	Next review date	02/12/15



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National Occupational Standard



Overview

This unit is about supervising the mixing operation to prepare the masterbatch or final batch of rubber compound.



Notional Occupational Standards Supervise mixing operations





Unit Code	RSC / N 0131
Unit Title (Task)	Supervise mixing operations
Description	This unit is about supervising the mixing operation to prepare the masterbatch or final
	batch of rubber compound.
Scope	This unit/task covers the following:
	Ensure housekeeping and safety in mixing area.
	Ensure that all mixing operations are properly conducted
	Achieve required output with minimum downtime and waste generation

Performance Criteria (PC) w.r.t. the Scope **Element Performance Criteria** PC1. Ensure that the operator follows the sequence of addition of ingredients and mixing instructions as per the authorized mixing instructions issued by technical (manually/through automated operations) PC2. Ensure that the operator follow the sequence to make available different compound mix as per the requirement PC3. Ensure mixers temperature/pressure/volume restrictions are respected and followed PC4. Ensure all laid out procedures/guidelines are in compliance PC5. Keep a check on cycle time (between one batch to another) to attain Operation efficiency. PC6. Ensure no bye passing/short cutting of sequence in compound preparation PC7. Ensure adequate cooling of mixed compound before laying down on skids/pallets/ gondolas PC8. Avoid contamination while carrying out the mixing operation PC9. Ensure proper application of slab dip /dip slurry for faciliatating the satcking of mixed compounds and its easy usage for next processing PC10. Ensure compliance of compounds dispositioned for work away through mixers respecting the directive PC20. Ensure that team members adhere to all safety norms (such as wearing protective gloves, masks, goggles and safety shoes). PC21. Arrange for hospitalization in case of accident PC22. Manage first aid, general medication etc. of the team members **Health & Safety** PC23. Avoid spillage and in case of spillage occur, follow safety measures as laid down by safety department PC24. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational









	standards.
Knowledge and Unders	standing (K)
.	The user/individual on the job needs to know and understand:
	KA1. Implications of improper compound preparation.
	KA2. Optimal utilization of material, machines and manpower.
	KA3. Company's quality policies and acceptance standards for raw materials, processed and final product.
	KA4. Organisational Coding system of raw material, compounds and products
	KA5. Different quality management systems
	KA6. Importance of identifying non-conforming materials.
	KA7. Risk and impact of not following defined procedures/work instructions.
B. Organizational	KA8. Risks involved in violating mixer machine limitations
Context	KA9. Escalation matrix for reporting identified problems.
(Knowledge of the	KA10. Types of documentation in organization and importance of the same.
company /	KA11. Records to be maintained and the implications of their non-maintenance.
organization and	KA12. Importance of housekeeping activities.
its processes)	KA13. Health, safety and environment guidelines, legislation and regulations as
	applicable.
	KA14. Personal and Personnel protection (which protective equipment to be used
	and how).
	KA15. Impact of poor practices on health, safety and environment.
	KA16. Potential hazards and actions to minimize them.
	KA17. The escalation matrix and procedures for reporting hazards.
	KA18. Impact of various practices on cost, quality, productivity, delivery and
	safety.
	KA19. Importance of optimal utilization of material, equipment and manpower.
	The user/individual on the job needs to know and understand:
	KB1. Importance of following SOP for compound preparation
	KB2. Rubber compound processing with different types of Mixers.
B. Technical	KB3. Proper handling of rubbers and chemicals
Knowledge	KB4. Use of correct updated formulation
	KB5. Importance of meeting schedules for mixing operation
	KB6. Implications of delay in mixing operations
	KB7. Implications of not restricting the vilation of mixer machine limitations on
	Tempartue/pressure/mix batch volumes
	KB8. Implications of not meeting the quality specifications
	KB9. Properties of material in use and compound prepared
	KB10. Proper monitoring of manpower and machines









	KB11. Implications of non-confirming compound preparation KB12. Importance of maintaining efficiency and attain scheduled target shift wise KB13. Implications of poor or improper usage of slab dip /dip slurry for compound sheet easy storage and separation KB14. Implications of not meeting the requirement of the other departments in timely manner
Skills (S)	
C. Core Skills/ Generic Skills	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. 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 stororage operator,lab chemist, maintenance manager etc. SB5. Instruct the team and encourage the team to adapt behavioral skills required to support the group activities.
	Integrity









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	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.
	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
	Material, Equipment and Manpower Handling
	The user/individual on the job needs to know and understand how to:
	SB1. Handle processing with different types of mixers
() (0)	SB2. Handle raw material required for compound preparation
D. Professional Skills	SB3. Handle rubber and chemicals
	SB4. Perform computer operations
	SB5. Maintain safety , quality and productivity
	SB6. Handling the coordination among team members
	SB7. Report team members issues to HR department that is beyond his control
	Subject Knowledge and Analytical Thinking









Supervise mixing operations

The user/individual on the job needs to have:

SB15. Thorough knowledge of physics, chemistry, mathematics and statistics

SB16. Knowledge of GMPs, SOPs and quality standards

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

SB17. Diagnose common problems in the mixing operation

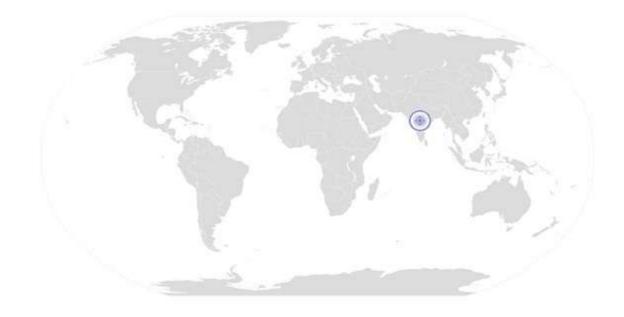
SB18. Suggest improvements(if any) in process based on experience

SB19. Manage time and human resource effectively

SB20. 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, accident, absenteeism etc.

SB21. Handling emergency situations effectively

SB22. Optimal utilization of raw material and minimal wastage











NOS Version Control

NOS Code	RSC / N 0131		
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	Mixing	Next review date	02/12/15



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National Occupational Standard



Overview

This unit is about supervising operations which are carried out after the mixing operation.



NOS National Occupational Standards





Conduct post-mixing supervisory operations

Unit Code	RSC / N 0132	
Unit Title	Conduct post-mixing supervisory operations	
(Task)		
Description	This unit is about supervising operations which are carried out after the mixing	
	operations.	
Scope	This unit/task covers the following:	
	Ensure housekeeping and safety in mixing area	
	Ensure marking the batch/s with proper identification and tags for further	
	processing	
	Send sample to lab for testing	
	Storage of compound and waste disposal	
	Storage of off spec or suspicious compounds and getting their disposal done	
	through techical reveiew committee	
	Maintain Record	

Performance Criteria (PC) w.r.t. the Scope

Element	Performance Criteria		
Batch Marking	PC1. Ensure identification and traceability by batch marking/coding for the compound as per the instructions laid down by the company.		
Sampling	PC2. Send sample of the prepared mix in the specified sample size and method as directed by the company		
	 PC1. Get the the mixed compound stored on designated skids/ gondolas/pallets 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. Ensure compliance of FIFO by the user department PC4. Get the mixer properly clean and ready after completion of mixing operation PC5. On continuous operations, ensure mandatory cleaning procedures, as per instructions from Technical, between compound changes and at shift ends are complied with PC6. Manage to provide maintenance time for any repair and scheduled long maintenance of mixer/s PC7. Arrange to place DO NOT USE tag on compound having any defects; either hold it for any other use, reschedule its preparation, PC8. Arrange to reschedule the mixing of the affected compound urgently to keep the plant process on for smooth running PC9. Ensure the storage of master batch in mixing area only; release only the final batch for further processing. 		



NOS National Occupational Standards





Conduct post-mixing supervisory operations

	PC10. Send the defective/rejected material to hold area and keep the storage space free for OK material PC11. Provide mixers on scheduled dates for Mixer inspections/ rotor clearance checks
Record Maintenance and Reporting	PC12. Ensure all the mixing details are properly recorded in the forms/formats/log books/computers PC13. 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 PC14. Paper /computer documents must be complete and traceable in all respect PC15. Records of the team members for work done, availability in shift, working hours etc PC16. Maintain inventory of mixed compounds
Material Disposal	PC17. Ensure the held up compound is disposed off by technical. PC18. Ensure the action on disposition of off spec material is carried out promptly
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 compounds. KA2. Significance of batch marking KA3. Importance of record maintenance. KA4. Organisational Coding system of raw material, compounds and products KA5. Different quality management systems KA6. Importance of identifying non-conforming material. KA7. Risk and impact of not following defined procedures/work instructions. KA8. Escalation matrix for reporting identified problems. KA9. Types of documentation in organization and importance of the same. KA10. Records to be maintained and the implications of their non-maintenance. KA11. Importance of housekeeping activities.



NOS Netional Occupational Standards





Conduct post-mixing supervisory operations

	KA12. Health, safety and environment guidelines, legislation and regulations as applicable.
	KA13. Personal and Personnel protection (which protective equipment to be used and how).
	KA14. Impact of poor practices on health, safety and environment.
	KA15. Potential hazards and actions to minimize them.
	KA16. The escalation matrix and procedures for reporting hazards.
	KA17. Importance of FIFO
	KA18. Impact of various practices on cost, quality, productivity, delivery and safety.
	KA19. Importance of optimal utilization of material, equipment and manpower.
	The user/individual on the job needs to know and understand:
	KB1. The Material Safety Data Sheets (MSDS) for all the materials used Procedures
	for storing and retention period for samples
	KB2. How to obtain and interpret records, charts, specifications, equipment
	manuals, history/technical support reports and other documents
	KB3. Methods and techniques involved in mixing operation
	KB4. Use of Computer/application software – Use password as per Company SOP
	under information leaking problem
	KB5. Importance of record maintenance
	KB6. Importance of timely delivery of prepared compound
B. Technical	KB7. Effective communication at different levels
Knowledge	KB8. Knowledge of traceability
	KB9. Record track of team members
	KB10. Process and importance of quality checks.
	KB11. Batch marking techniques.
	KB12. Implications of incorrect batch marking.
	KB13. Implications of inappropriate waste disposal.
	KB14. Types of defects leading to rejections and their indicators, reasons and possible solutions.
	KB15. Coding systems for identification and traceability.
	KB16. Knowledge of weighing scales.
	KB17. Knowledge of the storage life of prepared compound, ambient temperature
	and its effect on final product.
	KB18. Removal of waste material and downgraded material from each areas
	operations to concerned places
Skills (S)	
Comp Chille/	Writing Skills
E. Core Skills/	The user/ individual on the job needs to know and understand how to:
Generic Skills	SA1. Express the ideas, lodge complaints and give suggestions through effective
	written communication.









Conduct post-mixing supervisory operations

- 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
- SA4. Understand procedural guidelines
- SA5. Interpret and understand lab testing reports

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 gueries
- SA3. Communicate with team members and other job owners
- SA4. Instruct the team and encourage the team to adapt behavioral skills required to support the group activities.
- SA5. Disclose information only to those who have the right and need to know it.
- SA6. Communicate confidential and sensitive information discretely to authorized person as per SOP

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 is open and respectful
- SA3. 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:

- 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









Conduct post-mixing supervisory operations

	CA2. The conscients begin from avantages in a general factories and according and		
	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		
	The user/individual on the job needs to know and understand how to:		
	SB1. Handle test reports		
	SB2. Handle record books		
	SB3. Perform computer operations		
	SB4. Managing pressure and adhereing to strict guidelines/procedures for		
	completing mixing operation in timely manner		
	SB5. Handling the coordination among team members		
	SB6. Manage the work area by reducing the quantity of off spec. mixed or suspicious compounds		
F. Professional Skills	SB7. Report team members issues to HR department that is beyond his control		
F. Professional Skills	Subject Knowledge and Analytical Thinking		
	The user/individual on the job needs to have:		
	SB1. Thorough knowledge of physics, chemistry, mathematics and statistics		
	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 compound 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 for training team members		
	SB7. Attaining schedule targets in given timelines		









NOS Version Control

NOS Code	RSC / N 0132		
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	Mixing	Next review date	02/12/15



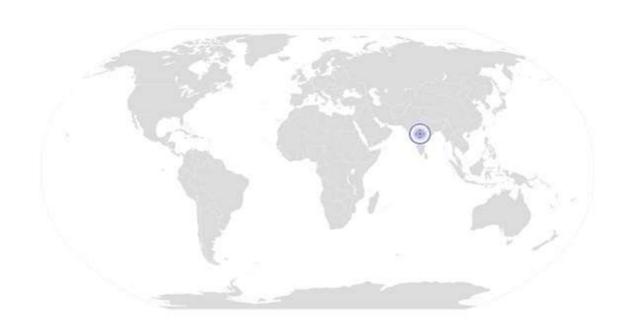








National Occupational Standard



Overview

This unit is about carrying out housekeeping



NOS etional Occupational Standard





Carry Out Housekeeping Activities

N3C / N 3001	carry out riousekeeping Activities
Unit Code	RSC / N 5001
Unit Title	To carry out housekeeping
(Task)	is carry our measurespining
Description	This unit is about carrying out housekeeping activities
Scope	This unit/task covers the following: Preparing for housekeeping activities Carry out housekeeping activities Post housekeeping activities

Performance Criteria (PC) w.r.t. the Scope

Element	Performance Criteria	
Pre housekeeping activi	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	
Post housekeeping activ	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	









Carry Out Housekeeping Activities

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
PC24. Replenish any necessary supplies or consumables
ng (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
KB8. The correct sequence for cleaning the work area
KB9. The time taken by the treatment to work
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









Carry Out Housekeeping Activities

RSC / N 5001	Carry Out Housekeeping Activities
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
	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:
A	SA8. Express statements, opinions or information clearly so that others can
A. Core Skills/ Generic Skills	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.

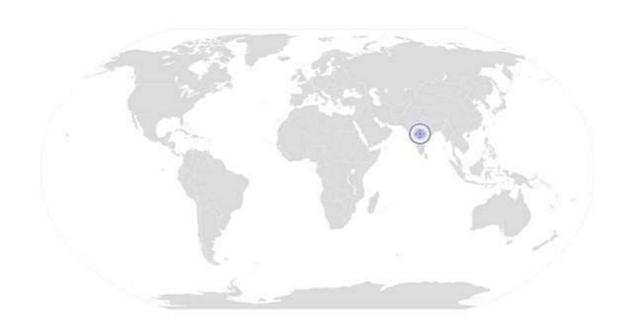








RSC / N 5001	Carry Out Housekeeping Activities		
	SA19. Is open to new ways of doing things		
	SA20. The capacity to envisage and articulate personal goals; to develop		
	strategies and take action to achieve them.		
	Reliability		
	The user/individual on the job needs to know and understand how to:		
	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		



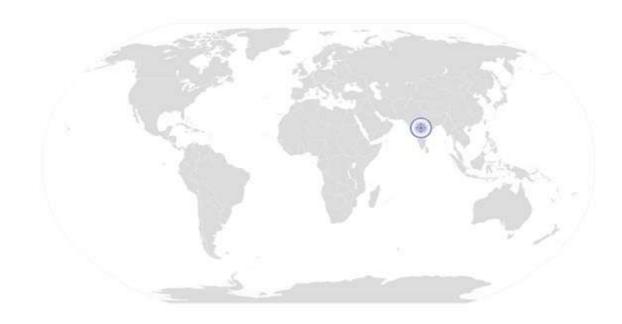








NOS Code	RSC / N 5001		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	04/06/14
Industry Sub-sector	Tyre and NonTyre	Last reviewed on	14/06/14
Occupation	Mixing	Next review date	14/06/15



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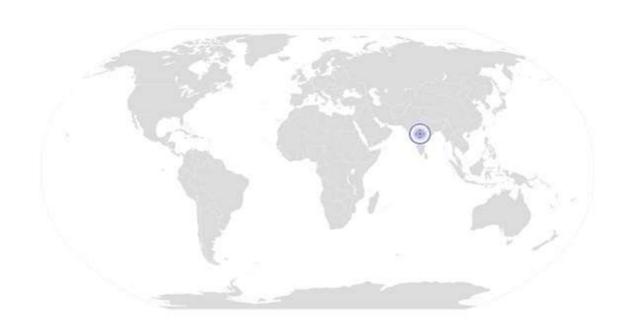






To Carry Out Reporting And Documention

National Occupational Standard



Overview

This unit is about reporting and documentation



NOS





To Carry Out Reporting And Documention

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 etc				
	Documentation				
	Information Security				
Performance Criteria (PC) 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 Under	- Park				
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				



NOS





To Carry Out Reporting And Documention

RSC / N 5002	To Carry Out Reporting And Documention		
	KB9. The importance of ensuring that the documents are correct		
	KB10. The actions to be taken if the documents are not 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		
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		
	Company of the Compan		
	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		
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 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 ich people to know and understand how to		
	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		









To Carry Out Reporting And Documention

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



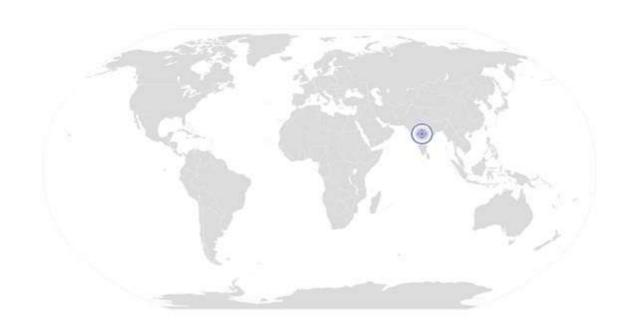






RSC / N 5002 To Carry Out Reporting And Documention NOS Version Control

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	Mixing	Next review date	14/06/15



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National Occupational Standard



Overview

This unit is about carrying out quality checks



To Carry Out Quality Checks





1.507 11 5005	To carry out Quarty 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 Criteria (F	PC) w.r.t. the Scope
Element	Performance Criteria
	To be competent, the user/individual on the job, must be able to:

	 Carrying out quality checks to identify problems Take corrective actions Reporting the results
Performance Criteria (PC) w.r.t. the Scope
Element	Performance Criteria
Inspection	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 PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as required
Analysis	 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 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
Reporting	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 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 Under	standing (K)
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. The importance of quality control procedures KB2. Relevance and importance of activities and how they contribute to the









To Carry Out Quality Checks

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					
	KB10. The freed 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)						
	The state of the					
	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,					
Generic Skiiis	job cards etc					
	SA6. Read images, graphs, diagrams					
	SA7. Understand the various coding systems as per company norms					
	Oral Communication (Listening and Speaking skills)					
	Oral Communication (Listering and Speaking Skins)					
	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)					
	activities (Quality circle, cross runctional realit, suggestion scheme)					









To Carry Out Quality Checks

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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

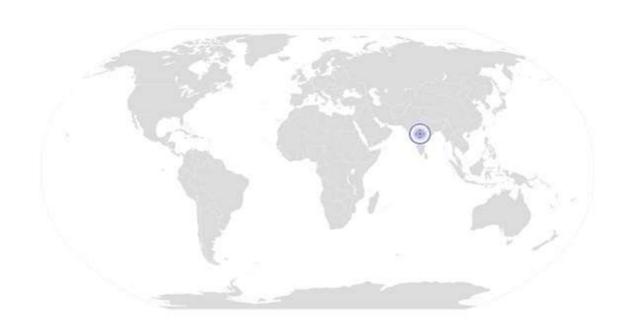








NOS Code RSC / N 5003 Credits(NSQF) **TBD Version number** 1.0 Rubber Manufacturing 04/06/14 Industry **Drafted on** Last reviewed on Industry Sub-sector 14/06/14 Tyre and NonTyre Occupation Mixing **Next review date** 14/06/15











National Occupational Standard



Overview

This unit is about problem identification and escalation



NOS





C / N 5004	To Carry Out Problem Identification And Escalation			
Unit Code	RSC / N 5004			
Unit Title (Task)	To carry out problem identification and escalation			
Description	This unit is about problem identification and escalation			
Scope	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			
Performance Criter	ria (PC) w.r.t. the Scope			
lement	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			
Problem	PC3. Identify practices that may impact the final product quality			
dentification	PC4. Identify if the problem has occurred before			

Element	Performance Criteria
Problem Identification	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
Necessary Action	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









SC / 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
Problem Escalation	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. Taskuisal	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)	Maritim of Chille
	Writing Skills The year / individual on the ich mende to know and year desired how to
	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
	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
Industry Sub-sector	Tyre and NonTyre	Last reviewed on	14/06/14
Occupation	Mixing	Next review date	14/06/15



CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Mixing Supervisor

Qualification Pack RSC/ Q 0111

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

NOS	Elements	Performance Criteria	Total	Theory	Practical
RSC / N 0130 Supervise the		PC1. Ensure that all the equipments and machines are operational	1	0	1
	Equipment PC2. Eng	PC2. Ensure all tools required for the mixer area operations are readily available	1	0	1
preparatory activities for	readiness	PC3. Ensure regular checks are conducted for machines for accuracy and readiness for operation	2	2	0
mixing		PC4. Identify defective equipment and take action as per SOP	15	8	7

	PC5. Set pressure and other parameters; set mixing time and follow the sequence to make available different compound mix as per the requirement	15	8	7
	PC6. In case settings on automated mixer are set by technical associates, ensure operator doesn't fiddle with settings and follows only authorized settings	2	2	0
	PC7. Arrange to provide tools like mill knives, butcher knives masks, gloves, rags etc. for workers before starting the mixing opeartion	2	0	2
	PC8. Ensure that all services such as steam, water ,electricity, etc are available at all times	2	2	0
	PC9. Comply with the maintenance schedule and ensure that maintenance programme of the mixer are carried out on regular basis	2	2	0
	PC10. Batch off mill gauge and proper cooling water flow .	2	0	2
	PC11. Roller die set up .	2	0	2
	PC12. Check the material coming from raw material stores and confirm that it is as per the scheduler	2	2	0
	PC13. Ensure the receiving of correct material in mixing area i.e. the material has lab release ID tags or colour code marking	3	3	0
Raw Material	PC14. Inspect the material carefully to detect torn bag, contaminated material etc. and report the same to the stores supervisor and his foreman before starting the mixing operation and arrange for replacement of affected material in case required	8	3	5
Readiness	PC4. Get thepigments /chemicals filled in the appropriate bins for facilitating weighing	2	2	0
	PC15. Ensure polymer bales or precut and are kept near the put up conveyors for final weighing and charging into mixer when the mixing operation commences	2	0	2
	PC16. Ensure functioning of carbon black manual or auto feeders	7	4	3
	PC17. Ensure functioning of process oil manual or auto feeding units	7	4	3
	PC18. Ensure availability of slab dip or dip slurry for cooling and using as separating agents for mixed compound slabs/sheets	2	2	0
Manpower	PC19. Ensure that the manpower required for achieving the compound mix schedule are available.	2	2	0
Readiness	PC20. Arrange for the substitute in case of absenteeism of any team member due to any injury, accident, leave etc.	1	1	0

		PC21. Delegate the task and inform the team members well in time about the mixing schedule to be met in the given time frame	1	1	0
		PC22. Train the manpower for handling emergency situations	2	2	0
		PC23. Resolving issues (if any) among the team members before the commencement of mixing operations	2	2	0
		PC24. Ensure that team members adhere to all safety norms (such as wearing protective gloves,masks, goggles and safety shoes).	4	2	2
		PC25. Manage first aid, general medication etc. of the team members	1	1	0
		PC26. Arrange for hospitalization in case of accident	1	1	0
	Health & Safety	PC27. Ensure no tampering of safety ropes/switches/extinguishers/alarms fitted on the machines or mixer area	2	1	1
		PC28. Avoid spillage and in case of spillage occur, follow safety measures as laid down by safety department	4	2	2
		PC29. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards.	1	1	0
			100	60	40
	Operation	PC1. Ensure that the operator follows the sequence of addition of ingredients and mixing instructions as per the authorized mixing instructions issued by technical (manually/through automated operations)	12	4	8
		PC2. Ensure that the operator follow the sequence to make available different compound mix as per the requirement	12	4	8
RSC / N 0131		PC3. Ensure mixers temperature/pressure/volume restrictions are respected and followed	10	6	4
Supervise		PC4. Ensure all laid out procedures/guidelines are in compliance	10	3	7
mixing operations		PC5. Keep a check on cycle time (between one batch to another) to attain efficiency.	6	3	3
·		PC6. Ensure no bye passing/ short cutting of sequence in compound preparation	9	3	6
		PC7. Ensure adequate cooling of mixed compound before laying down on skids/pallets/ gondolas	7	3	4
		PC8. Avoid contamination while carrying out the mixing operation	9	4	5
		PC9. Ensure proper application of slab dip /dip slurry for faciliatating the satcking of mixed compounds and its easy usage for next processing	8	2	6

		PC10. Ensure compliance of compounds dispositioned for work away through mixers respecting the directive	3	0	3
	Health & Safety	PC11. Ensure that team members adhere to all safety norms (such as wearing protective gloves, masks, goggles and safety shoes).	6	2	4
		PC12. Arrange for hospitalization in case of accident	1	1	0
		PC13. Manage first aid, general medication etc. of the team members	1	1	0
		PC14. Avoid spillage and in case of spillage occur, follow safety measures as laid down by safety department	4	2	2
		PC15. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards.	2	2	0
			100	40	60
	Batch Marking	PC1. Ensure identification and traceability by batch marking/coding for the compound as per the instructions laid down by the company.	11	6	5
	Sampling	PC2. Send sample of the prepared mix in the specified sample size and method as directed by the company	4	2	2
		PC3. Get the the mixed compound stored on designated skids/ gondolas/pallets with proper ID tags and hold until release tags in the allotted storage area.	5	2	3
		PC4. Ensure the storage is done to facilitate the FIFO	4	2	2
		PC5. Ensure compliance of FIFO by the user department	7	3	4
RSC / N 0132		PC6. Get the mixer properly clean and ready after completion of mixing operation	6	2	4
Conduct post-mixing supervisory operations		PC7. On continuous operations, ensure mandatory cleaning procedures, as per instructions from Technical, between compound changes and at shift ends are complied with	6	2	4
		PC8. Manage to provide maintenance time for any repair and scheduled long maintenance of mixer/s	2	2	0
		PC9. Arrange to place DO NOT USE tag on compound having any defects; either hold it for any other use, reschedule its preparation,	6	2	4
		PC10. Arrange to reschedule the mixing of the affected compound urgently to keep the plant process on for smooth running	2	2	0
		PC11. Ensure the storage of master batch in mixing area only; release only the final batch for further processing.	2	2	0
		PC12. Send the defective/rejected material to hold area and keep the storage	6	4	2

		space free for OK material			
		PC13. Provide mixers on scheduled dates for Mixer inspections/ rotor clearance checks	6	4	2
		PC14. Ensure all the mixing details are properly recorded in the forms/formats/log books/computers	8	2	6
	Record Maintenance and	PC15. 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	2	2	0
	Reporting	PC16. Paper /computer documents must be complete and traceable in all respect	2	2	0
		PC17. Records of the team members for work done, availability in shift, working hours etc	3	3	0
		PC18. Maintain inventory of mixed compounds	3	3	0
	Material Discosol	PC19 Ensure the held up compound is disposed off by technical.	3	3	0
	Material Disposal	PC20. Ensure the action on disposition of off spec material is carried out promptly	1	1	0
	Health & Safety	PC21. Ensure that team members adhere to all safety norms (such as wearing protective gloves, masks, goggles and safety shoes).	1	1	0
		PC22. Arrange for hospitalization in case of accident	1	1	0
		PC23. Manage first aid, general medication etc. of the team members	1	1	0
		PC24. Avoid spillage and in case of spillage occur, follow safety measures as laid down by safety department	6	4	2
		PC25. 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		PC2. Identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain	3	3	0
To Carry Out	Pre housekeeping	PC3. Ensure that the cleaning equipment is in proper working condition	3	3	0
Housekeepin g	activities	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	0
		PC5. Plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces	3	3	0

		PC6. Inform the affected people about the cleaning activity	2	2	0
		PC7. Display the appropriate signage for the work being conducted	3	3	0
		PC8. Ensure that there is adequate ventilation for the work being carried out	3	3	0
		PC9. Wear the personal protective equipment required for the cleaning method and materials being used	3	3	0
		PC10. Use the correct cleaning method for the work area, type of soiling and surface	3	3	0
		PC11. Carry out cleaning activity without disturbing others	3	3	0
	Operations	PC12. Deal with accidental damage, if any, caused while carrying out the work	3	3	0
		PC13. Report to the appropriate person any difficulties in carrying out your work	3	3	0
		PC14. Identify and report to the appropriate person any additional cleaning required that is outside one's responsibility or skill	3	3	0
		PC15. Ensure that there is no oily substance on the floor to avoid slippage	9	3	6
		PC16. Ensure that no scrap material is lying around	9	3	6
		PC17. Maintain and store housekeeping equipment and supplies	3	3	0
		PC18. Follow workplace procedures to deal with any accidental damage caused during the cleaning process	3	3	0
	Post housekeeping activities	PC19. Ensure that, on completion of the work, the area is left clean and dry and meets requirements	8	2	6
	General	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	0
		PC21. Dispose the waste garnered from the activity in an appropriate manner	9	3	6
		PC22. Dispose of used and un-used solutions according to manufacturer's instructions, and clean the equipment thoroughly	9	3	6
		PC23. Maintain schedules and records for housekeeping duty	3	3	0
		PC24. Replenish any necessary supplies or consumables	3	3	0
			100	70	30
RSC/N5002		PC1. Report data/problems/incidents as applicable in a timely manner	12	8	4
To Carry Out	Reporting	PC2. Report to the appropriate authority as laid down by the company	12	8	4
Reporting		PC3. Follow reporting procedures as prescribed by the company	12	8	4

And		PC4. Identify documentation to be completed relating to one's role	10	6	4
Documentati on	Recording and Documentation	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	PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures	6	6	0
	Security	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
RSC/N5003		PC6. Evaluating the need for action to ensure that problems do not recur	6	4	2
To Carry Out		PC7. Suggest corrective action to address problem	5	3	2
Quality		PC8. Review effectiveness of corrective action	5	3	2
Checks		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
	Reporting	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
		PC2. Identify any wrong practices that may lead to problems	6	3	3
	Problem	PC3. Identify practices that may impact the final product quality	6	3	3
	Identification	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
		PC9. Consider applicable corrections and formulate corrective action	3	3	0
		PC10. Formulate action in a timely manner	3	3	0
RSC/N5004	Necessary Action	PC11. Communicate problem/remedial action to appropriate parties	7	5	2
To Carry Out		PC12. Take corrective action in a timely manner	2	2	0
Problem Identification		PC13. Take corrective action for problems identified according to the company procedures	2	2	0
And	Necessary Action	PC14. Report/document problem and corrective action in an appropriate manner	8	5	3
Escalation		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
		PC21. Escalate problem as per laid down escalation matrix	4	3	1
	Droblem Feedleties	PC22. Escalate the problem within stipulated time	4	3	1
	Problem Escalation	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

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