



### 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

#### Contact Us:

PHD House (4th Floor), Opp. Asian Games Village, Siri Fort Institutional Area, New Delhi -110016 PH: 011-41009347/48 E-mail: info@rsdcindia.in





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## Introduction

### **Qualifications Pack- Rubber Internal Mixer Operator**

SECTOR: RUBBER INDUSTRY

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

**OCCUPATION:** Mixing

**REFERENCE ID:** RSC/Q0112

ALIGNED TO: NCO-2015/NIL

**Brief Job Description:** The rubber internal mixer operator is responsible for mixing the raw materials in the internal mixing machine/ Kneader to prepare rubber compound which is processed further to obtain final compounds.

**Personal Attributes:** This job requires the individual to work independently and be comfortable in performing laborious work. He should be result oriented and positive in attitude. The individual must be willing to work in the factory environment.



RSC/Q0112

**Rubber Internal Mixer Operator** 

**Version number** 

Last reviewed on

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**Drafted on** 

2.0

20/03/2013

23/08/2017

23/08/2021



Qualifications Pack Code	
Job Role	Rub
Credits(NSQF)	TBD
Sector	Rubber Manufacturing
Sub-sector	Tyre and Non- tyre
Occupation	Mixing

**NSQC Clearance on** 

Job Role	Rubber Internal Mixer Operator
JOD KOIE	
	The rubber internal mixer operator is responsible for mixing the raw materials in the internal mixing machine/ Kneader to
Role Description	prepare rubber compound which is processed further to
	obtain final compounds.
NSQF level	4
Minimum Educational Qualifications*	Class VIII <sup>th</sup> Pass
Maximum Educational Qualifications*	
Prerequisite License or Training	NA
Minimum Job Entry Age	18 years
Experience	Worked as a semi-skilled helper for minimum 12 months in the
same or similar process	
Applicable National Occupational	Compulsory:
Standards (NOS)	1. <u>RSC/N0133 - Prepare internal mixer and accessories_v2</u>
	2. <u>RSC/N0134</u> - Mix in internal mixer to prepare rubber
	<u>compound_v2</u>
	3. <u>RSC/N0135 - Undertake post internal mixing activities_v2</u>
	4. <u>RSC/N5001 - Carry out housekeeping in rubber product</u>
	manufacturing
	5. <u>RSC/N5002</u> -Carry out reporting and documentation
	6. <u>RSC/N5003 - Carry out quality checks</u>
	7. <u>RSC/N5004 - Carry out problem identification and</u>
	escalation
	8. <u>RSC/N5007 - Carry out health and safety</u>
Performance Criteria	As described in the relevant OS units





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.
Job Role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context.
Qualifications Pack	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.
Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.
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.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
Organizational Context	Organizational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills 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 preparing internal mixer/kneader and other accessories for mixing raw material to make rubber compound.





National Occupational Standards Prepare Internal Mixer And Accessories\_v2



RSC/N0133

KSC/N0155	Prepare internal wixer And Accessories_v2 Transforming the skill landscape
Unit Code	RSC/N0133
Unit Title	Prepare internal mixer and accessories_v2
(Task)	
Description	This unit is about preparing internal mixer/kneader and other accessories for mixing
-	raw material to make rubber compound.
Scope	This OS unit/task covers the following:
	Ensuring housekeeping and safety in the mixing area     Ensuring functioning of other accessories required like hydroulis/anoumatic
	• Ensuring functioning of other accessories required like hydraulic/pneumatic system, temperature control unit (TCU), lubrication system, energy control
	system, dust/ fume extractor including upstream and downstream material/
	batch handling equipment as appropriate
	• Setting the parameters for Health and Safety on the internal mixer/kneader as
	per company's SOP
Performance Criteria (I	PC) w.r.t. the Scope
Element	Performance Criteria
Equipment readiness	To be competent, the user/individual on the job must be able to:
	PC1. Ensure that the mixer is clean and ready for operation
	PC2. Ensure functioning of safety features of Internal Mixer and other accessories
	PC3. Ensure proper functioning of different upstream and downstream equipment
	attached with the Mixer like hydraulic/pneumatic system, temperature
	control unit (TCU), lubrication system, energy control system (power
	integrator), dust extractor including material/ batch handling equipment as
	appropriate
	PC4. Set parameters for the equipment (mixing cycle time, temperature, energy
	and pressure) and Filler & Oil loading system as per company's SOP
Raw material	PC5. Ensure availability of pre-weighed, approved rubber and other ingredients to
appropriateness	be fed as per batch requirement
	PC6. Ensure that weighing scale (put up or the scale used for weighing rubber,
	mixed chemicals) is calibrated
	PC7. Ensure that rubber compound to be fed is approved by laboratory
	PC8. Ensure that all raw materials have been assembled/organized (in correct
	sequence, if applicable) to be fed into mixer
	PC9. Ensure all ingredients are homogeneously mixed.
Health & Safety	PC10. Ensure proper housekeeping and safety in mixing area
	PC11. Ensure that electrical devices that may be exposed to carbon black dust are
	sealed.
	PC12. Blow periodically the electrical devices with clean/dry compressed air or
	vacuum clean.
	PC13. Ensure that the exhaust systems are used to maintain the concentration level
	of various particulate matters within limits.
	PC14. Adhere to all safety norms (like wearing protective gloves, shoes, Safety
	Glasses etc)
	PC15. Comply with health, safety, environment guidelines, regulations etc in
	- east comply with reality survey, environment guidelines, regulations etc.in





National Occupational Standards Prepare Internal Mixer And Accessories\_v2



accordance with international/national standards or organizational SOP

Kno	wledge and Unders	tanding (K)		
A. C	Organizational	The user/individual on the job needs to know and understand:		
C	Context	KA1. Manufacturing process, including Rubber mastication, master batch and final		
(	Knowledge of the	batch process		
С	company /	KA2. Implications of poorly prepared equipment, power failure etc		
0	organization and	KA3. Importance of identifying non-conforming material and storage of the same		
it	ts processes)	KA4. Risk and impact of not following defined procedures/work instructions		
		KA5. Escalation matrix for reporting identified problems		
		KA6. Types of documentation in organization and importance of the same		
		KA7. Records to be maintained and implications of non-maintenance of the same		
		KA8. Importance of housekeeping & good shop floor practices (eg 3S/5S and /or		
		plant practices)		
		KA9. Health, Safety and Environment guidelines, legislation and regulations as		
		applicable		
		KA10.Personal protection( Which protective equipment to be used when and how)		
		KA11.Impact of poor practices on health, safety and environment		
		KA12. Potential hazards and actions to minimize the same		
		KA13.Escalation matrix and escalation procedure for reporting hazards		
		KA14.Importance of FIFO KA15.The usage of different fire extinguishers		
		KA16.Impact of various practices on cost, quality, productivity, delivery and safety		
		KA17.Handover/ Takeover the equipment/ work area as per company's SOP		
вт	echnical			
	nowledge			
K	inowieuge	possible setting levels, typical process followed for different batches)		
		KB2. Knowledge of upstream and downstream equipments liked to mixer		
		equipment		
		KB3. Possible causes of common mixing problems and their remedies		
		KB4. Tolerance levels for various parameters( time, temperature, ram pressure, Fill		
		factor, Rotor rpm and batch weight) and their effect on mixed batch		
		KB5. Health hazards of process and compounding ingredients KB6. Implications of delays in preparation process		
		KB7. Types of defects leading to rejections, indicators, reasons and possible		
		solutions.		
		KB8. Cleanliness and safety requirements for commencing a mixing batch operation		
		KB9. Units of measurement		
		KB10. The effect of wrong weighing of ingredients		
		KB11. Response to emergencies e.g. Power failures ,fire and system failures and		
		manual intervention to avoid disaster		
		KB12. Appropriate batch size with respect to appropriate machinery KB13. Functioning of exhaust systems and potential hazards due to malfunctioning of		
		dust collector and fume extract systems		
		KB14. Operation of PLC		
		KB15. Multi-skilling within crew operation as appropriate		
		KB16. Simple mathematics for specific gravity and batch weight calculation		



National Occupational Standards Prepare Internal Mixer And Accessories\_v2



Skills (S)			
A. Core Skills/	/ Writing Skills		
Generic 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 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		
	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		
	Life Skills		
	Integrity		
	SA12. Practice honesty with respect to company property and time		
	SA13. Communicate with people in a form and manner and using language that is		
	open and respectful		
	SA14. Resolve any difficulties in relationships with colleagues , or get help from an		
	appropriate person, in a way that preserves goodwill and trust		
	Motivation		
	SA15. Take responsibility for completing one's own work assignment		
	SA16. Take initiative to enhance/learn skills in ones's area of work		
	SA17. The capacity to learn from experience in a range of settings and scenarios and		
	the capacity to reflect on and analyse one's learning.		
	SA18. The capacity to envisage and articulate personal goals; to develop strategies		
	and take action to achieve them.		
	Reliability		
	SA19. Avoid absenteeism		
	SA20. Act objectively , rather than impulsively or emotionally when faced with		
	difficult/stressful or emotional situations		





Prepare Internal Mixer And Accessories\_v2

N·5·D·C National Skill Development Corporation

K3C/10133	Transforming the skill landscape
	SA21. Work in disciplined factory environment
	SA22. Be punctual
B. Professional Skills	Decision Making
	SB1. Take a decision for any change/issue based on earlier successes(documented
	previous history)on similar issues
	SB2. Work out changes in case a new improved machine/equipment is added in the
	process or any new material/chemical is developed replacing existing one.
	SB3. Make changes in cycle time due to improved process.
	SB4. Use the standard operating procedure or trouble shooting manuals for trouble
	shooting and other reference documents approved by plant management
	SB5. Consult the peer group and superiors to arrive at a favourable decision.
	SB6. Use of standard available problem solving techniques for decision making
	SB7. Review and analyze the process steps to check on system non adherence and
	non conformity
	SB8. Review the current SOP and other standards for continuous improvement to
	facilitate decision making
	SB9. Take a calculated risk with minimum losses
	Plan and Organize
	SB10. Plan for the mixing as per schedule
	SB11. Organize all the ingredients required for mixing rubber compound
	Customer Centricity
	SB12. Match customer needs/specification by adjusting the processing conditions
	(interact with customer in case any clarification required)
	SB13. Ensure that performance of his action/operation/activity does not lead to any
	divergence from the specified quality of the final product as required by the
	customer.
	SB14. Complete the assigned task in timely manner so that the final product is
	delivered in the timeline given by the customer.
	SB15. Communicate effectively to the superior/customer for any delay in supplies to
	the clients.
	SB16. Work towards fulfilling the customers requirement as per their demand.
	SB17. In case of any complaint, ensure its timely resolution if the problem is
	emanating at his level
	SB18. Communicate effectively to the superior/customer for any delay in resolving
	the problem faced by the customer.
	SB19. Maintain good/cordial relation with customers.
	SB20. Work on the feedback received from customer regarding the product.
	Problem Solving







RUBBER SKILL DEVELOPMENT COUNCIL	
RSC/N0133	Prepare Internal Mixer And Accessories_v2 Transforming the skill landscape
	SB21. Solve problems emanating during mixing operation
	SB22. Apply problem-solving approaches in different situations
	Analytical Thinking
	SB23. Proper collection of material as per schedule
	SB24. Identify defects in the material and communicate it at the earliest and suggest improvements (if any) in process/material based on experience
	SB25. Diagnose common problems in the machine based on visual inspection, sound, temperature etc
	SB26. Suggest improvements (if any) in process based on experience
	Critical Thinking
	SB27. Seek clarification on problems from others
	SB28. Refer anomalies to the line manager









## **NOS Version Control**

NOS Code	RSC/N0133		
Credits(NSQF)	TBD	Version number	2.0
Industry	Rubber Manufacturing	Drafted on	20/03/2013
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	23/08/2017
Occupation	Mixing	Next review date	23/08/2021



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# National Occupational Standard



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### **Overview**

This unit is about mixing raw material in internal mixer/kneader to prepare rubber compound.







RUBBER SKILL DEVELOPMENT COUNCIL	National Occupational Standards // Corporation		
RSC/N0134	Mix In Internal Mixer To Prepare Rubber Compound_v2 Transforming the skill landscape		
Unit Code	RSC/N0134		
Unit Title			
(Task)	Mix in internal mixer to prepare rubber compound_v2		
Description	This unit is about mixing raw material in internal mixer/kneader to prepare rubber		
	compound.		
Scope	This unit/task covers the following:		
ocope	<ul> <li>Mixing raw materials in internal mixer/kneader</li> </ul>		
	Operations		
	Ensuring housekeeping and safety in the mixing area		
Performance Criteria (I	PC) w.r.t. the Scope		
Element	Performance Criteria		
Raw material	To be competent, the user/individual on the job must be able to :		
appropriateness	PC1. Handle the rubber compound to avoid contamination		
	PC2. Ensure that batch size of rubber mix is as per company's SOP		
	PC3. Ensure that identified & approved materials are used.		
Operations	PC4. Ensure that the sequence in shift is based on raw material availability to		
	maximize output		
	PC5. Add the ingredients in sequence as per SOP considering different types of		
	mixing process possible PC6. Check and adjust cooling water flow rate (mixing temperature control)		
	PC7. Raise Ram/open kneader and brush powder inside kneader As per cycle, from		
	machine side as per SOP		
	PC8. Control mixing process and completion as per SOP (temperature or time or		
	energy as programmed / specified)		
	PC9. Release the batch after completion of mixing cycle as per SOP		
	PC10. Inform the batch off mill man about the release of batch as per SOP.		
	PC11. Prepare the Internal Mixer/Kneader for next batch as per Planning.		
Housekeeping &	PC12. Ensure proper housekeeping and safety in mixing area		
Safety	PC13. Ensure that the electrical devices that may be exposed to carbon black dust		
	are sealed.		
	PC14. Blow periodically the electrical devices with clean/dry compressed air or		
	vacuum clean. PC15. Ensure that the exhaust systems are used to maintain the concentration levels		
	of various particulate matters remain within limits.		
	PC16. Adhere to all safety norms (like wearing protective gloves, mask, shoes, safety		
	glasses etc)		
	PC17. Comply with health, safety, environment guidelines, regulations etc in		
	accordance with international/national standards or organizational SOP		
Knowledge and Unders	erstanding (K)		
A. Organizational	The user/individual on the job needs to know and understand:		
Context	KA1. Manufacturing process, including master batch, re-milling and final batch		
(Knowledge of the	process		
company /	KA2. Different types of batches that are run in plant		
organization and	KA3. The specific materials, including quantities, to be used		
	KA4. Properties of compounds		







	National Occupational Standards		
RSC/N0134	Mix In Internal Mixer To Prepare Rubber Compound_v2 Transforming the skill landscape		
its processes)	KA5. Material disposal procedure, importance of appropriate disposal of material		
	and implications of not following the material disposal procedure		
	KA6. Quality and damage checks to be done and importance of the same		
	KA7. Implications of poorly prepared material, power failure etc		
	KA8. Importance of identifying non-conforming products and storage of the same		
	KA9. Risk and impact of not following defined procedures/work instructions		
	KA10. Escalation matrix for reporting identified issues		
	KA11. Types of documentation in organization and importance of the same		
	KA12. Records to be maintained and implications of non-maintenance of the same		
	KA13. Importance of housekeeping & good shop floor practices (e.g.3S/5S)		
	KA14. Health, Safety and Environment guidelines, legislation and regulations as applicable		
	KA15. Personal protection( Which protective equipment to be used and how)		
	KA16. Impact of poor practices on health, safety and environment		
	KA17. Potential hazards and actions to minimize the same		
	KA18. Escalation matrix and escalation procedure for reporting hazards		
	KA19. Importance of FIFO		
	KA20. The usage of different fire extinguisher		
	KA21. Impact of various practices on cost, quality, productivity, delivery and safety		
	KA22. Handover/ Takeover the equipment/work area as per company's SOP		
B. Technical	The user/individual on the job needs to know and understand:		
Knowledge	KB1. Internal mixer/kneader and its operation, including operation of console in		
	case of PLC/Microprocessor control		
	KB2. Possible causes of common mixing problems (loose fillers, crumbly discharge,		
	scattered batch, gel formation in the mixing operation)and their remedies		
	KB3. Tolerance levels for various parameters (time, temperature, ram pressure, fill		
	factor, Rotor rpm and batch weight) and their effect on mixed batch		
	KB4. Handling of different types of materials		
	KB5. Implications of overheating during mixing and adopting measures like		
	increasing water flow, adjusting nip gap, increasing number of cuts.		
	KB6. Troubleshooting- Knowledge of abnormalities and what response to make in		
	case of abnormalities in equipment performance		
	KB7. Health hazards of process and compounding ingredients		
	KB8. Cleanliness and safety requirements for operating a internal mixing machine		
	KB9. Awareness of different material forms to avoid dusting (E.g. Usage of polymer bound or treated rubber chemicals, refined Aromatic process oil)		
	KB10. Proper compound mixing and ingredient dispersion KB11. Effect of improper processing on properties of rubber compound & product		
	KB12. The process and importance of quality check ,including visual inspection		
	KB12. The process and importance of quality check ,including visual inspection KB13. Implications of poorly prepared material, power failure etc		
	KB13. Types of defects leading to rejections, indicators, reasons and possible		
	solutions.		
	KB15. Implications of delays in production process owing to issues in synchronization		







RUBBER SKILL DEVELOPMENT COUNCIL RSC/N0134	Mix In Internal Mixer To Prepare Rubber Compound_v2 Transforming the skill landscape
	with upstream/downstream equipments
	KB16. Units of measurement
	KB17. Response to emergencies e.g. Power failures, fire and system failures and
	manual intervention to avoid disaster
	KB18. Increase of process temperature on stability of compounding ingredients
	KB19. Appropriate batch size with respect to appropriate machinery
	KB20. When and where to use cleaner batches and their disposal
	KB21. Simple mathematics for specific gravity and batch weight calculation
Skills (S)	
A. Core Skills/	Writing Skills
Generic 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 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
	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
	SATI. Communicate with upstream and downstream teams
	Life Skills
	Integrity
	SA12. Practice honesty with respect to company property and time
	SA13. Communicate with people in a form and manner and using language that is
	open and respectful
	SA14. Resolve any difficulties in relationships with colleagues , or get help from an
	appropriate person, in a way that preserves goodwill and trust
	Motivation
	SA15. Take responsibility for completing one's own work assignment
	SA16. Take initiative to enhance/learn skills in ones's area of work







RSC/N0134	Mix In Internal Mixer To Prepare Rubber Compound_v2 Transforming the skill landscape		
	SA17. The capacity to learn from experience in a range of settings and scenarios and		
	the capacity to reflect on and analyse one's learning.		
	SA18. The capacity to envisage and articulate personal goals; to develop strategies		
	and take action to achieve them.		
	Reliability		
	SA19. Avoid absenteeism		
	SA20. Act objectively, rather than impulsively or emotionally when faced with		
	difficult/stressful or emotional situations		
	SA21. Work in disciplined factory environment		
	SA22. Be punctual		
B. Professional Skills	Decision Making		
	The individual needs to know and understand how to:		
	The individual needs to know and understand now to.		
	SB1. Take a decision for any change/issue based on earlier successes(documented		
	previous history)on similar issues		
	SB2. Work out changes in case a new improved machine/equipment is added in the		
	process or any new material/chemical is developed replacing existing one.		
	SB3. Make changes in cycle time due to improved process.		
	SB4. Use the standard operating procedure or trouble shooting manuals for trouble		
	shooting and other reference documents approved by plant management		
	SB5. Consult the peer group and superiors to arrive at a favourable decision.		
	SB6. Use of standard available problem solving techniques for decision making		
	SB7. Review and analyze the process steps to check on system non adherence and		
	non conformity		
	SB8. Review the current SOP and other standards for continuous improvement to		
	facilitate decision making		
	SB9. Take a calculated risk with minimum losses		
	Plan and Organize		
	SB10. Utilize the raw material for maximizing product		
	SB11. Organize mixing process to achieve set targets		
	SB12. Organize the remaining material		
	Customer Centricity		
	SB13. Match customer needs/specification by adjusting the processing conditions		
	(interact with customer in case any clarification required)		
	SB14. Ensure that performance of his action/operation/activity does not lead to any		
	divergence from the specified quality of the final product as required by the customer.		
	SB15. Complete the assigned task in timely manner so that the final product is		
	delivered in the timeline given by the customer.		
	SB16. Communicate effectively to the superior/customer for any delay in supplies to		







BER SKILL DEVELOPMENT COUNCIL	National Occupational Standards / Corporation
RSC/N0134	Mix In Internal Mixer To Prepare Rubber Compound_v2 Transforming the skill landscape
	the clients.
	SB17. Work towards fulfilling the customers requirement as per their demand.
	SB18. In case of any complaint, ensure its timely resolution if the problem is
	emanating at his level
	SB19. Communicate effectively to the superior/customer for any delay in resolving
	the problem faced by the customer.
	SB20. Maintain good/cordial relation with customers.
	SB21. Work on the feedback received from customer regarding the product.
	Problem Solving
	SB22. Interpret quality of compound
	SB23. Suggest improvements(if any) in process/product/materials based on results
	and experience
	Analytical Thinking
	SB24. Proper collection of compound as per requirement
	SB25. Identify defects in the material and communicate it at the earliest and sugge
	improvements(if any) in process/material based on experience
	SB26. Diagnose common problems in the machine based on visual inspection, soun
	temperature etc
	SB27. Suggest improvements(if any) in process based on experience
	Critical Thinking
	SB28. Seek clarification on problems from others
	SB29. Apply problem-solving approaches in different situations
	SB30. Refer anomalies to the line manager
1 A A	





## **NOS Version Control**

NOS Code	RSC /N0134		
Credits(NSQF)	TBD	Version number	2.0
Industry	Rubber Manufacturing	Drafted on	20/03/2013
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	23/08/2017
Occupation	Mixing	Next review date	23/08/2021



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# National Occupational Standard



#### \_\_\_\_\_

### **Overview**

This unit is about undertaking activities post mixing of raw materials in internal mixer/kneader.





National Occupational Standards Undertake post internal mixing activities\_v2



RSC/N0135	Undertake post internal mixing activities_v2 Transforming the skill landscape
Unit Code	RSC/N0135
Unit Title (Task)	Undertake post internal mixing activities_v2
Description	This unit is about undertaking activities after performing mixing operation in internal mixer/kneader.
Scope	<ul> <li>This unit/task covers the following:</li> <li>Operate and Unload rubber compound</li> <li>Disposal of unused material</li> <li>Form appropriate batches of the compound and mark the batch for proper identification in further processing</li> <li>Send sample to lab for testing and transfer remaining material to designated area</li> <li>Ensuring housekeeping and safety in the mixing area</li> </ul>
Performance Criteria (F	PC) w.r.t. the Scope
Element	Performance Criteria
Operations	<ul> <li>To be competent, the user/individual on the job must be able to</li> <li>PC1. Tilt the kneader on completion of cycle or discharge the batch from internal mixer after completion of mixing cycle</li> <li>PC2. Unload master batch/compound in a tray</li> <li>PC3. Ensure that no compound has been left inside (before charging for next batch)</li> <li>PC4. Handle the finished batch on dump mill as per SOP</li> <li>PC5. Ensure shifting of the batch from dump mill to the batch off unit for cooling &amp; stacking on the skids as per SOP</li> <li>PC6. Handover the equipment to the next operator in clean and good condition</li> </ul>
Material disposal	PC7. Dispose waste material in safe manner as per company's SOP
Batch Marking	PC8. Ensure identification and traceability by batch marking/ coding for the right product as per instructions laid down by the company (in terms of batch number, colour, date stamp etc)
Sampling	PC9. Send sample of specified compound/ batch in specified form to lab for testing PC10. Send the remaining material to the designated storage area
Housekeeping & Safety	<ul> <li>PC11. Ensure housekeeping and safety in mixing area</li> <li>PC12. Ensure that electrical devices that may be exposed to carbon black dust are sealed.</li> <li>PC13. Blow periodically the electrical devices with clean/dry compressed air or vacuum clean.</li> <li>PC14. Ensure that the exhaust systems are used to maintain the concentration levels of various particulate matters remain within limits.</li> <li>PC15. Adhere to all safety norms (like wearing protective gloves, shoes etc)</li> <li>PC16. Comply with health, safety, environment guidelines, regulations etc in accordance with international/national standards or organizational SOP</li> </ul>
Knowledge and Unders	standing (K)
A. Organizational Context (Knowledge of the	<ul><li>The user/individual on the job needs to know and understand:</li><li>KA1. Implications of poorly prepared material, power failure etc</li><li>KA2. Knowledge of the equipment /s for laying down the mixed stock in sheet form</li></ul>







Undertake post internal mixing activities v2 company / KA3. Material disposal procedure, importance of appropriate disposal of material organization and and implications of not following the material disposal procedure its processes) KA4. Significance of batch marking KA5. Importance of identifying non-conforming product and storage of the same KA6. Risk and impact of not following defined procedures/work instructions Escalation matrix and procedure for reporting identified problems KA7. KA8. Types of documentation in organization and importance of the same KA9. Records to be maintained and implications of non-maintenance of the same KA10. Importance of housekeeping & good shop floor practices (eg 3S/5S) KA11. Health, Safety and Environment guidelines, legislation and regulations as applicable KA12. Personal protection (Which protective equipment to be used when and how) KA13. Potential hazards and actions to minimize the same KA14. Impact of poor practices on health, safety and environment KA15. Escalation matrix and procedure for reporting hazards KA16. Importance of FIFO KA17. The usage of different fire extinguishers KA18. Impact of various practices on cost, quality, productivity, delivery and safety KA19. Handover/ Takeover the equipment/ work area as per company's SOP The user/individual on the job needs to know and understand: Batch marking techniques KB1. **KB2**. Possible causes of common mixing problems & their remedies KB3. Implications of incorrect batch marking Implications of inappropriate waste disposal **B. Technical** KB4. Types of defects leading to rejections, indicators, reasons and possible KB5. Knowledge solutions. KB6. Units of measurement KB7. Coding systems for identification and traceability Response to emergencies e.g. Power failures, fire and system failures KB8. KB9. Use of weighing scales KB10. Storage life of the compound KB11. Ambient temperature and effect on compound KB12. Simple mathematics for specific gravity and batch weight calculation Skills (S) A. Core Skills/ Writing Skills **Generic 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 Skills** 







RUBBER SKILL DEVELOPMENT COUNCIL RSC/N0135	Undertake post internal mixing activities_v2 Transforming the skill landscape
	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
	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
	Life Skills
	Integrity
	SA12. Practice honesty with respect to company property and time
	SA13. Communicate with people in a form and manner and using language that is open and respectful
	SA14. Resolve any difficulties in relationships with colleagues , or get help from an
	appropriate person, in a way that preserves goodwill and trust
	Motivation
	SA15. Take responsibility for completing one's own work assignment
	SA16. Take initiative to enhance/learn skills in ones's area of work
	SA17. The capacity to learn from experience in a range of settings and scenarios and
	the capacity to reflect on and analyse one's learning.
	SA18. Is open to new ways of doing things
	SA19. The capacity to envisage and articulate personal goals; to develop strategies
	and take action to achieve them.
	Reliability
	SA20. Avoid absenteeism
	SA21. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA22. Work in disciplined factory environment
	SA23. Be punctual
B. Professional Skills	Decision Making
	The individual needs to know and understand how to:
	SB1. Take a decision for any change/issue based on earlier successes(documented
	previous history)on similar issues
	SB2. Work out changes in case a new improved machine/equipment is added in the
	process or any new material/chemical is developed replacing existing one.
	SB3. Make changes in cycle time due to improved process.
	SB4. Use the standard operating procedure or trouble shooting manuals for trouble
	shooting and other reference documents approved by plant management
	SB5. Consult the peer group and superiors to arrive at a favourable decision.







ER SKILL DEVELOPMENT COUNCIL	National Occupational Standards / Corporation
SC/N0135	Undertake post internal mixing activities_v2 Transforming the skill landscape
	SB6. Use of standard available problem solving techniques for decision making
	SB7. Review and analyze the process steps to check on system non adherence and
	non conformity
	SB8. Review the current SOP and other standards for continuous improvement to
	facilitate decision making
	SB9. Take a calculated risk with minimum losses
	Plan and Organize
	SB10. Dispose of waste material properly
	SB11. Send sample in timely manner
	SB12. Co-ordinate activity with the person and department associated with next step
	of production process
	Customer Centricity
	customer centricity
	SB13. Match customer needs/specification by adjusting the processing conditions
	(interact with customer in case any clarification required)
	SB14. Ensure that performance of his action/operation/activity does not lead to any
	divergence from the specified quality of the final product as required by the
	customer.
	SB15. Complete the assigned task in timely manner so that the final product is delivered in the timeline given by the customer.
	SB16. Communicate effectively to the superior/customer for any delay in supplies to
	the clients.
	SB17. Work towards fulfilling the customers requirement as per their demand.
	SB18. In case of any complaint, ensure its timely resolution if the problem is
	emanating at his level
	SB19. Communicate effectively to the superior/customer for any delay in resolving
	the problem faced by the customer.
	SB20. Maintain good/cordial relation with customers.
	SB21. Work on the feedback received from customer regarding the product.
	Problem Solving
	SB22. Interpret quality of compound
	SB23. Utilize the raw material in best possible manner minimizing waste
	SB24. Modify the mix as per change in requirement
	Analytical Thinking
	SB25. Carry out proper collection of waste material
	SB26. Identify defects in the material and communicate it at the earliest and sugges
	improvements(if any) in process/material based on experience
	SB27. Diagnose common problems in the machine based on visual inspection, sound
	temperature etc
	SB28. Suggest improvements(if any) in process based on experience
	Critical Thinking
	SB29. Seek clarification on problems from others
	SB30. Apply problem-solving approaches in different situations
	SB31. Refer anomalies to the Supervisor







## **NOS Version Control**

NOS Code	RSC/N0135		
Credits(NSQF)	TBD	Version number	2.0
Industry	Rubber Manufacturing	Drafted on	20/03/2013
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	23/08/2017
Occupation	Mixing	Next review date	23/08/2021







# National Occupational Standard



**Overview** 

This unit is about carrying out housekeeping







#### Carry out housekeeping in rubber product manufacturing

Unit Code	RSC /N5001	
Unit Title		
(Task)	Carry out housekeeping in rubber product manufacturing	
Description	This unit is about carrying out housekeeping activities	
Scope	This unit/task covers the following:	
	Preparing for housekeeping activities	
	Carry out housekeeping operations	
	Post housekeeping activities	
	• General	
Performance Criteria	(PC) w.r.t. the Scope	
Element	Performance Criteria	
Pre housekeeping	To be competent, the user/individual on the job must be able to:	
activities	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	PC15. Ensure that there is no oily substance on the floor to avoid slippage	
activities	PC16. Ensure that no scrap material is lying around	
	PC17. Maintain and store housekeeping equipment and supplies	
	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	







RSC/N5001 Carry out housekeeping in rubber product manufacturing PC22. Dispose of used and un-used solutions according to manufacturer's

	instructions, and clean the equipment thoroughly
General	PC23. Maintain schedules and records for housekeeping duty
	PC24. Replenish any necessary supplies or consumables
Knowledge and Unders	tanding (K)
	KA1. Importance of learning proper procedures and techniques
	KA2. Implications of not following the organizational requirement for approval for
	undertaking the specific task
	KA3. Importance of completing the activities as per the schedule
	KA4. Implications of not following the defined procedures/work instructions
	KA5. Importance of team work
	KA6. Health, Safety and Environment guidelines, legislation and regulations as
A. Organizational	applicable
Context	KA7. Actions to be taken in case of non-conformity to behavioral standards of the
(Knowledge of the	organization
company /	KA8. Impact of poor practices on the individual's and organization's performance
organization and	KA9. Importance of optimal utilization of resources
its processes)	KA10.Importance of providing feedback for improvement

KA11.Importance of indigenous knowledge for evolving/adopting operation specific practices
KA12. Rectification/solution of problems/conflicts for the smooth functioning of the
organization KA13.Importance of documentation/reporting as per guidelines and procedures
KA14. Knowledge of do's and don'ts (company's HR instructions)
KA15.Importance of attending trouble shooting KA16.Importance of subject learning/ training
KA17.Importance of Product and its application
The user/individual on the job needs to know and understand:

B. Technical	The user/individual on the job needs to know and understand:
Knowledge	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







RSC/N5001	Carry out housekeeping in rubber product manufacturing Transforming the skill landscape
	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 KB18. Escalation procedures for soils or stains that could not be removed
Skills (S)	
A. Core Skills/	Writing Skills
Generic 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 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
	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
	Life Skills
	Integrity
	SA12. Practice honesty with respect to company property and time
	SA13. Communicate with people in a form and manner and using language that is open and respectful
	SA14. Resolve any difficulties in relationships with colleagues , or get help from an
	appropriate person, in a way that preserves goodwill and trust
	Motivation
	SA15. Take responsibility for completing one's own work assignment
	SA16. Take initiative to enhance/learn skills in one's area of work
	SA10. Take initiative to enhance, learn skins in one's area of work SA17. The capacity to learn from experience in a range of settings and scenarios and
	the capacity to reflect on and analyze one's learning.
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RUBBER SKILL DEVELOPMENT COUNCIL	National Occupational Standards / Corporation
RSC/N5001	Carry out housekeeping in rubber product manufacturing Transforming the skill landscape
	SA18. Is open to new ways of doing things
	SA19. The capacity to envisage and articulate personal goals; to develop strategies
	and take action to achieve them.
	Reliability
	SA20. Avoid absenteeism
	SA21. Act objectively, rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA22. Work in disciplined factory environment
	SA23. Be punctual
B. Professional Skills	Decision Making
	The individual needs to know and understand how to:
	SB1. Take a decision for any change/issue based on earlier successes(documented
	previous history)on similar issues
	SB2. Work out changes in case a new improved machine/equipment is added in the
	process or any new material/chemical is developed replacing existing one.
	SB3. Make changes in cycle time due to improved process.
	SB4. Use the standard operating procedure or trouble shooting manuals for trouble
	shooting and other reference documents approved by plant management
	SB5. Consult the peer group and superiors to arrive at a favourable decision.
	SB6. Use of standard available problem solving techniques for decision making
	SB7. Review and analyze the process steps to check on system non adherence and
	non conformity
	SB8. Review the current SOP and other standards for continuous improvement to
	facilitate decision making
	SB9. Take a calculated risk with minimum losses
	Plan and Organize
	SB10. Plan and organize the factors of production to execute the business plan
	SB11. Fix up tasks and allotment of the same
	SB12. Assign tasks to suitable persons
	SB13. Motivate them for better output and time bound completion of tasks
	Customer Centricity
	SB14. Match customer needs/specification by adjusting the processing conditions
	(interact with customer in case any clarification required)
	SB15. Ensure that performance of his action/operation/activity does not lead to any
	divergence from the specified quality of the final product as required by the
	customer.
	SB16. Complete the assigned task in timely manner so that the final product is
	SB16. Complete the assigned task in timely manner so that the final product is delivered in the timeline given by the customer.



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RUBBER SKILL DEVELOPMENT COUNCIL	
RSC/N5001	Carry out housekeeping in rubber product manufacturing Transforming the skill landscape
	the clients.
	SB18. Work towards fulfilling the customers requirement as per their demand.
	SB19. In case of any complaint, ensure its timely resolution if the problem is
	emanating at his level
	SB20. Communicate effectively to the superior/customer for any delay in resolving
	the problem faced by the customer.
	SB21. Maintain good/cordial relation with customers.
	SB22. Work on the feedback received from customer regarding the product.
	Problem Solving
	SB23. Interpret quality for sheet
	SB24. Suggest improvements (if any) in process/product/materials based on results
	and experience
	Analytical Thinking
	SB25. Proper collection of waste material
	SB26. Identify defects in the material and communicate it at the earliest and suggest
	improvements (if any) in process/material based on experience
	SB27. Diagnose common problems in the machine based on visual inspection, sound,
	temperature etc
	SB28. Suggest improvements(if any) in process based on experience
	Critical Thinking
	SB29. Seek clarification on problems from others
	SB30. Apply problem-solving approaches in different situations
	SB31. Refer anomalies to the line manager

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## **NOS Version Control**

NOS Code	RSC/N5001		
Credits(NSQF)	TBD	Version number	2.0
Industry	Rubber Manufacturing	Drafted on	20/03/2013
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	23/08/2017
Occupation	Mixing	Next review date	23/08/2021









National Occupational Standard



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**Overview** 

This unit is about reporting and documentation





National Occupational Standards Carry Out Reporting And Documentation



National Occupational Standard

Unit Code	RSC/N5002			
Unit Title				
(Task)	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 (I	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	PC4. Identify documentation to be completed relating to one's role			
Documentation	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			
Information Security	<ul><li>PC8. Make sure documents are available to all appropriate authorities to inspect</li><li>PC9. Respond to requests for information in an appropriate manner whilst following</li></ul>			
information security	organizational procedures			
	PC10. Inform the appropriate authority of requests for information received			
Knowledge and Unders	standing (K)			
	KA1. Importance of learning proper procedures and techniques			
	KA2. Implications of not following the organizational requirement for approval for			
	undertaking the specific task			
	KA3. Importance of completing the activities as per the schedule			
A. Organizational	KA4. Implications of not following the defined procedures/work instructions			
Context	KA5. Importance of team work			
(Knowledge of the	KA6. Health, Safety and Environment guidelines, legislation and regulations as			
company /	applicable			
organization and	KA7. Actions to be taken in case of non-conformity to behavioral standards of the			
its processes)	organization			
	KA8. Impact of poor practices on the individual's and organization's performance			
	KA9. Importance of optimal utilization of resources			
	KA10. Importance of providing feedback for improvement			
	KA11. Importance of indigenous knowledge for evolving/adopting operation specific			
	practices			
	KA12. Rectification/solution of problems/conflicts for the smooth functioning of the			





**Carry Out Reporting And Documentation** 



	organization		
	KA13. Importance of documentation/reporting as per guidelines and procedures		
	KA14. Knowledge of do's and don'ts (company's HR instructions)		
	A15. Importance of attending trouble shooting		
	KA16. Importance of subject learning/ training		
	KA17. Importance of Product and its application		
B. Technical	The user/individual on the job needs to know and understand:		
Knowledge	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		
	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		
A. Core Skills/	SA4. Perform functional mathematical operations, including apply basic		
Generic Skills	mathematical principles, such as numbers and space, and techniques such as		
Generic Skills	estimation and approximation, for practical purposes		
	Reading 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		







BBER SKILL DEVELOPMENT COUNCIL	National Occupational Standards / Corporation			
RSC/N5002	Carry Out Reporting And Documentation Transforming the skill landscape			
	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			
	Life Skills			
	Integrity			
	SA12. Practice honesty with respect to company property and time			
	SA13. Communicate with people in a form and manner and using language that is open and respectful			
	SA14. Resolve any difficulties in relationships with colleagues , or get help from an			
	appropriate person, in a way that preserves goodwill and trust			
	Motivation			
	SA15. Take responsibility for completing one's own work assignment			
	SA16. Take initiative to enhance/learn skills in ones's area of work			
	SA17. The capacity to learn from experience in a range of settings and scenarios and			
	the capacity to reflect on and analyse one's learning.			
	SA18. Is open to new ways of doing things			
	SA19. The capacity to envisage and articulate personal goals; to develop strategies			
	and take action to achieve them.			
	Reliability			
	SA20. Avoid absenteeism			
	SA21. Act objectively , rather than impulsively or emotionally when faced with			
	difficult/stressful or emotional situations			
	SA22. Work in disciplined factory environment			
	SA23. Be punctual			
B. Professional Skills	Decision Making			
	The individual needs to know and understand how to:			
	SB1. Take a decision for any change/issue based on earlier successes(documented			
	previous history)on similar issues			
	SB2. Work out changes in case a new improved machine/equipment is added in the			
	process or any new material/chemical is developed replacing existing one.			
	SB3. Make changes in cycle time due to improved process.			
	SB4. Use the standard operating procedure or trouble shooting manuals for trouble shooting and other reference documents approved by plant management			
	SB5. Consult the peer group and superiors to arrive at a favourable decision.			
	SB6. Use of standard available problem solving techniques for decision making			
	SB7. Review and analyze the process steps to check on system non adherence and			
	non conformity			
	SB8. Review the current SOP and other standards for continuous improvement to			
	SDO. Neview the current SOF and other standards for continuous improvement to			





National Occupational Standards Carry Out Reporting And Documentation



	facilitate decision making		
SB9.	Take a calculated risk with minimum losses		
Plan a	Plan and Organize		
SB10	Plan and organize the factors of production to execute the business plan		
SB11	Fix up tasks and allotment of the same		
SB12	Assign tasks to suitable persons		
SB13	Motivate them for better output and time bound completion of tasks		
Custo	mer Centricity		
SB14	Match customer needs/specification by adjusting the processing conditions		
	(interact with customer in case any clarification required)		
SB15	Ensure that performance of his action/operation/activity does not lead to any		
	divergence from the specified quality of the final product as required by the customer.		
SB16	Complete the assigned task in timely manner so that the final product is		
	delivered in the timeline given by the customer.		
SB17	Communicate effectively to the superior/customer for any delay in supplies to the clients.		
SB18	Work towards fulfilling the customers requirement as per their demand.		
Shared -	In case of any complaint, ensure its timely resolution if the problem is emanating at his level		
SB20	Communicate effectively to the superior/customer for any delay in resolving		
	the problem faced by the customer.		
SB21	Maintain good/cordial relation with customers.		
	Work on the feedback received from customer regarding the product.		
	em Solving		
SB23	Interpret quality for sheet		
	Suggest improvements (if any) in process/product/materials based on results		
	and experience		
Analy	tical Thinking		
SB25	Proper collection of waste material		
	. Identify defects in the material and communicate it at the earliest and suggest		
	improvements(if any) in process/material based on experience		
SB27	Diagnose common problems in the machine based on visual inspection, sound,		
	temperature etc		
SB28	Suggest improvements(if any) in process based on experience		
	al Thinking		
SB29	Seek clarification on problems from others		
SB30	Apply problem-solving approaches in different situations		
SB31	Refer anomalies to the line manager		





## **NOS Version Control**

NOS Code	RSC/N5002	RSC/N5002		
Credits(NSQF)	TBD	Version number	2.0	
Industry	Rubber Manufacturing	Drafted on	20/03/2013	
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	23/08/2017	
Occupation	Mixing	Next review date	23/08/2021	



Back to QP





# National Occupational Standard



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# **Overview**

This unit is about carrying out quality checks





National Occupational Standards Carry Out Quality Checks



National Occupational Standard

K3C/ N3003	Transforming the skill landscape
Unit Code	RSC/N5003
Unit Title	
(Task)	Carry out quality checks
Description	This unit is about carrying out quality control activities
Scope	This unit/task covers the following:
	<ul> <li>Carrying out quality checks and inspect to identify problems</li> </ul>
	<ul> <li>Analysis and take corrective actions</li> </ul>
	• Reporting the results
Performance Criteria (P	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 Unders	tanding (K)
A. Organizational	KA1. Importance of learning proper procedures and techniques
Context	KA2. Implications of not following the organizational requirement for approval for
(Knowledge of the	undertaking the specific task
company /	KA3. Importance of completing the activities as per the schedule
organization and	KA4. Implications of not following the defined procedures/work instructions
its processes)	KA5. Importance of team work
	KA6. Health, Safety and Environment guidelines, legislation and regulations as
	applicable
	KA7. Actions to be taken in case of non-conformity to behavioral standards of the
	organization
	KA8. Impact of poor practices on the individual's and organization's performance
	KA9. Importance of optimal utilization of resources
	KA10. Importance of providing feedback for improvement
	KA11. Importance of indigenous knowledge for evolving/adopting operation specific
	in the intervence of margenous knowledge for evolving/adopting operation specific



National Occupational Standards Carry Out Quality Checks



K3C/N3003	Carry Out Quarty Checks Iransforming the skill landscape
	practices
	KA12. Rectification/solution of problems/conflicts for the smooth functioning of the
	organization
	KA13. Importance of documentation/reporting as per guidelines and procedures
	KA14. Knowledge of do's and don'ts (company's HR instructions)
	KA15. Importance of attending trouble shooting
	KA16. Importance of subject learning/ training
	KA17. Importance of Product and its application
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. The importance of quality control procedures
Ū	KB2. Relevance and importance of activities and how they contribute to the
	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)	
A. Core Skills/	Writing Skills
Generic 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 Skills
	SA5. Read and understand manuals, health and safety instructions, memos, reports,
	job cards etc
	job cards etc SA6. Read images, graphs, diagrams
	SA6. Read images, graphs, diagrams







RUBBER SKILL DEVELOPMENT COUNCIL	National Occupational Standards / Corporation
RSC/N5003	Carry Out Quality Checks Transforming the skill landscape
	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
	Life Skills
	Integrity
	SA12. Practice honesty with respect to company property and time
	SA13. Communicate with people in a form and manner and using language that is open and respectful
	SA14. Resolve any difficulties in relationships with colleagues , or get help from an
	appropriate person, in a way that preserves goodwill and trust
	Motivation
	SA15. Take responsibility for completing one's own work assignment
	SA16. Take initiative to enhance/learn skills in one's area of work
	SA17. The capacity to learn from experience in a range of settings and scenarios and
	the capacity to reflect on and analyse one's learning.
	SA18. Is open to new ways of doing things
	SA19. The capacity to envisage and articulate personal goals; to develop strategies
	and take action to achieve them.
	Reliability
	SA20. Avoid absenteeism
	SA21. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA22. Work in disciplined factory environment
	SA23. Be punctual
B. Professional Skills	Decision Making
	The individual needs to know and understand how to:
	SB1. Take a decision for any change/issue based on earlier successes(documented
	previous history)on similar issues
	SB2. Work out changes in case a new improved machine/equipment is added in the
	process or any new material/chemical is developed replacing existing one.
	SB3. Make changes in cycle time due to improved process.
	SB4. Use the standard operating procedure or trouble shooting manuals for trouble
	shooting and other reference documents approved by plant management
	SB5. Consult the peer group and superiors to arrive at a favourable decision.
	SB5. Use of standard available problem solving techniques for decision making
	SB7. Review and analyze the process steps to check on system non adherence and
	non conformity
	SB8. Review the current SOP and other standards for continuous improvement to
	facilitate decision making





#### National Occupational Standards Carry Out Quality Checks



K3C/115003	Carry Out Quality Criecks Transforming the skill landscape
	SB9. Take a calculated risk with minimum losses
	Plan and Organize
	SB10. Plan and organize the factors of production to execute the business plan
	SB11. Fix up tasks and allotment of the same
	SB12. Assign tasks to suitable persons
	SB13. Motivate them for better output and time bound completion of tasks
	Customer Centricity
	SB14. Match customer needs/specification by adjusting the processing conditions
	(interact with customer in case any clarification required)
	SB15. Ensure that performance of his action/operation/activity does not lead to any divergence from the specified quality of the final product as required by the customer.
	SB16. Complete the assigned task in timely manner so that the final product is delivered in the timeline given by the customer.
	SB17. Communicate effectively to the superior/customer for any delay in supplies to the clients.
	SB18. Work towards fulfilling the customers requirement as per their demand.SB19. In case of any complaint, ensure its timely resolution if the problem is
	emanating at his level
	SB20. Communicate effectively to the superior/customer for any delay in resolving the problem faced by the customer.
	SB21. Maintain good/cordial relation with customers.
	SB22. Work on the feedback received from customer regarding the product.
	Problem Solving
	SB23. Interpret quality for sheet
	SB24. Suggest improvements(if any) in process/product/materials based on results
	and experience
	Analytical Thinking
	SB25. Proper collection of waste material
	SB26. Identify defects in the material and communicate it at the earliest and suggest
	improvements(if any) in process/material based on experience
	SB27. Diagnose common problems in the machine based on visual inspection, sound,
	temperature etc
	SB28. Suggest improvements(if any) in process based on experience
	Critical Thinking
	SB29. Seek clarification on problems from others
	SB29. Seek clarification on problems from others SB30. Apply problem-solving approaches in different situations





# **NOS Version Control**

NOS Code	RSC /N5003		
Credits(NSQF)	TBD	Version number	2.0
Industry	Rubber Manufacturing	Drafted on	20/03/2013
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	23/08/2017
Occupation	Mixing	Next review date	23/08/2021









# National Occupational Standard



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**Overview** 

This unit is about problem identification and escalation







RSC/N5004

National Occupational Standards	
<b>Carry Out Problem Identification And Escalation</b>	i

RSC/N5004	Carry Out Problem Identification And Escalation Transforming the skill landscape
Unit Code	RSC/N5004
Unit Title	Carry out problem identification and escalation
(Task)	
Description	This unit is about problem identification and escalation
Scope	This unit/task covers the following:
	Identify problems across:
	• Raw materials
	<ul> <li>Compounds</li> </ul>
	<ul> <li>Product</li> </ul>
	o Equipment
	o Others
	Identify solutions to problems
	Take corrective action
	Escalation of unresolved identified problems
Performance Criteria	(PC) w.r.t. the Scope
Element	Performance Criteria
Problem	To be competent, the user/individual on the job must be able to:
Identification	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
	PC10. Formulate action in a timely mannel PC11. Communicate problem/remedial action to appropriate parties
	<ul><li>PC12. Take corrective action in a timely manner</li><li>PC13. Take corrective action for problems identified according to the company</li></ul>
	procedures
	PC14. Report/document problem and corrective action in an appropriate manner
	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
	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
Problem Escalation	PC21. Escalate problem as per laid down escalation matrix
	PC22. Escalate the problem within stipulated time
	PC23. Escalate the problem in an appropriate manner
	PC24. Ensure that no delays are caused as a result of failure to escalate problems

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RSC/N5004     Carry Out Problem Identification And Escalation     Transforming the skill landscape       KA1.     Importance of learning proper procedures and techniques	
KA1 Importance of learning proper procedures and techniques	
in the importance of learning proper procedures and teeningdes	
KA2. Implications of not following the organizational requirement for approval for	or
undertaking the specific task	
KA3. Importance of completing the activities as per the schedule	
KA4. Implications of not following the defined procedures/work instructions	
KA5. Importance of team work	
KA6. Health, Safety and Environment guidelines, legislation and regulations as	
A. Organizational applicable	
Context KA7. Actions to be taken in case of non-conformity to behavioral standards of t	he
(Knowledge of the organization	
company / KA8. Impact of poor practices on the individual's and organization's performance	e
organization and KA9. Importance of optimal utilization of resources	
its processes) KA10. Importance of providing feedback for improvement	
	:fie
KA11. Importance of indigenous knowledge for evolving/adopting operation spec	IIIC
practices	
KA12. Rectification/solution of problems/conflicts for the smooth functioning of t	he
organization	
KA13. Importance of documentation/reporting as per guidelines and procedures	
KA14. Knowledge of do's and don'ts (company's HR instructions)	
KA15. Importance of attending trouble shooting	
KA16. Importance of subject learning/ training	
KA17. Importance of Product and its application	
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	
in the second seco	
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)       A. Core Skills/	







**Carry Out Problem Identification And Escalation** Transforming the skill landscape **Generic Skills** The user/individual on the job needs to know and understand how to: Construct simple sentences and express ideas clearly through written SA1. communication SA2. Fill up appropriate technical forms, process charts, activity logs in required format of the company Write simple letters, mails, etc SA3. Perform functional mathematical operations, including apply basic SA4. mathematical principles, such as numbers and space, and techniques such as estimation and approximation, for practical purposes **Reading Skills** SA5. Read and understand manuals, health and safety instructions, memos, reports, job cards etc SA6. Read images, graphs, diagrams Understand the various coding systems as per company norms SA7. **Oral Communication** SA8. Express statements, opinions or information clearly so that others can hear and understand SA9. Respond appropriately to any gueries SA10. Communicate with supervisor 10 SA11. Communicate with upstream and downstream teams Life Skills Integrity SA12. Practice honesty with respect to company property and time SA13. Communicate with people in a form and manner and using language that is open and respectful SA14. Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust **Motivation** SA15. Take responsibility for completing one's own work assignment SA16. Take initiative to enhance/learn skills in one's area of work SA17. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA18. Is open to new ways of doing things SA19. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability SA20. Avoid absenteeism SA21. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA22. Work in disciplined factory environment





National Occupational Standards Carry Out Problem Identification And Escalation



	CA22 Do punctual
	SA23. Be punctual
B. Professional Skills	Decision Making
	The individual needs to know and understand how to:
	SB1. Take a decision for any change/issue based on earlier successes(documented previous history)on similar issues
	SB2. Work out changes in case a new improved machine/equipment is added in the process or any new material/chemical is developed replacing existing one.
	SB3. Make changes in cycle time due to improved process.
	SB4. Use the standard operating procedure or trouble shooting manuals for trouble
	shooting and other reference documents approved by plant management
	SB5. Consult the peer group and superiors to arrive at a favourable decision.
	SB6. Use of standard available problem solving techniques for decision making
	SB7. Review and analyze the process steps to check on system non adherence and
	non conformity
	SB8. Review the current SOP and other standards for continuous improvement to
	facilitate decision making
	SB9. Take a calculated risk with minimum losses
	Plan and Organize
	SB10. Plan and organize the factors of production to execute the business plan
	SB11. Fix up tasks and allotment of the same
	SB12. Assign tasks to suitable persons
	SB13. Motivate them for better output and time bound completion of tasks
	Customer Centricity
	SB14. Match customer needs/specification by adjusting the processing conditions
	(interact with customer in case any clarification required)
	SB15. Ensure that performance of his action/operation/activity does not lead to any
	divergence from the specified quality of the final product as required by the customer.
	SB16. Complete the assigned task in timely manner so that the final product is
	delivered in the timeline given by the customer.
	SB17. Communicate effectively to the superior/customer for any delay in supplies to the clients.
	SB18. Work towards fulfilling the customers requirement as per their demand.
	SB19. In case of any complaint, ensure its timely resolution if the problem is emanating at his level
	SB20. Communicate effectively to the superior/customer for any delay in resolving
	the problem faced by the customer.
	SB21. Maintain good/cordial relation with customers.
	SB22. Work on the feedback received from customer regarding the product.





RSC/N5004	Carry Out Problem Identification And Escalation
N3C/N3004	
	Problem Solving
	SB23. Interpret quality for sheet
	SB24. Suggest improvements(if any) in process/product/materials based on results
	and experience
	Analytical Thinking
	SB25. Proper collection of waste material
	SB26. Identify defects in the material and communicate it at the earliest and suggest
	improvements(if any) in process/material based on experience
	SB27. Diagnose common problems in the machine based on visual inspection, sound,
	temperature etc
	SB28. Suggest improvements(if any) in process based on experience
	Critical Thinking
	SB29. Seek clarification on problems from others
	SB30. Apply problem-solving approaches in different situations
	SB31. Refer anomalies to the line manager



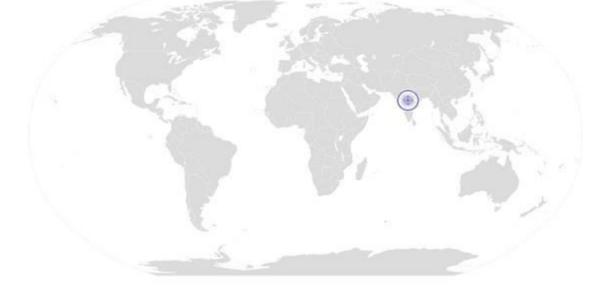






# **NOS Version Control**

NOS Code	RSC/N5004		
Credits(NSQF)	TBD	Version number	2.0
Industry	Rubber Manufacturing	Drafted on	20/03/2013
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	23/08/2017
Occupation	Mixing	Next review date	23/08/2021



Back to QP





# National Occupational Standard



**Overview** 

This unit is about health & safety





**Carry Out Health & Safety** 



**Unit Code RSC/N5007 Unit Title Carry Out Health & Safety** (Task) Description This unit is about maintaining health and safety of self and others at workplace. This unit/task covers the following: Scope Maintain a clean and efficient workplace Render appropriate emergency procedures • Maintain standard safety procedures at the workplace Participate in safety awareness campaigns • Understand potential sources of accidents • Use safety gears to avoid accidents • Performance Criteria (PC) To be competent, the individual on the job must be able to: Maintain a clean and efficient workplace PC1. Undertake basic safety checks before operation of all machinery and equipment and report hazards to the appropriate supervisor PC2. Identify the work for which protective clothing or equipment is required and the appropriate protective clothing or equipment is used in performing these duties in accordance with workplace policy. PC3. Read and understand the hazards of use and contamination mentioned on the labels of chemicals, utilities etc Assess the risk prior to performing manual handling jobs and work is carried PC4. out according to currently recommended safe practices. PC5. Use equipment and materials safely and correctly and return the same to designated storage when not in use PC6. Dispose off waste safely and correctly in a designated area PC7. Recognize the risk to bystanders and take action to reduce risk associated with jobs in the workplace PC8. Perform work in a manner which minimizes environmental damage PC9. Monitor closely all procedures and work instructions for controlling risk PC10. Report any accidents, incidents or problems without delay to an appropriate person and take immediate necessary action to reduce further danger. PC11. Follow procedures for dealing with accidents, fires and emergencies, including communicating location and directions to emergency. PC12. Follow emergency procedures as per company standards and workplace requirements. **Render** appropriate PC13. Use Emergency equipment in accordance with manufacturers' specifications emergency procedures and workplace requirements. PC14. Provide treatment appropriate to the patient's injuries in accordance with recognized first aid techniques. PC15. Recover (if practical), clean, inspect/test, refurbish, replace and store the first







# National Occupational Standards Corporational Standards RSC/N5007 Carry Out Health & Safety Transforming the standard aid equipment as appropriate PC16. Dispose off medical waste in accordance with workplace requirements PC17. Report details of first aid administered in accordance with work place procedures. Maintain standard PC18. Comply with general safety procedures

	PC16. Dispose off medical waste in accordance with workplace requirements PC17. Report details of first aid administered in accordance with work place procedures.
Maintain standard	PC18. Comply with general safety procedures
safety procedures at the workplace	PC19. Follow standard safety procedures while handling equipment, hazardous material or tool
	PC20. Check parts of the workplace and take preventive actions like spraying and
	other steps to protect from leakages, water logging, pests, fire, pollution, etc.
	PC21. Ensure no accidents and damages at the workplace, reporting of any breach of
	company safety procedure
	PC22. Keep the workplace organized, swept, clean and hazard free
Participate in safety awareness campaigns	PC23. Attend fire drills and other safety related workshops organized at the workplace
	PC24. Awareness about first aid, evacuation and emergency procedures
	PC25. Ensuring all safety procedures are followed without neglecting any event
Understand potential	PC26. Avoid accidents while using hazardous chemicals, machines, sharp tools and
sources of accidents	equipment
Use safety gears to	PC27. Use safety materials such as protective gear, goggles, caps, shoes, etc. (as
avoid accidents	applicable with workplace)
	PC28. Handle heavy and hazardous materials with care and using appropriate
	A A A A A A A A A A A A A A A A A A A
Knowledge and Unders	PC28. Handle heavy and hazardous materials with care and using appropriate tools and handling equipment such as trolleys, ladders
Knowledge and Unders	PC28. Handle heavy and hazardous materials with care and using appropriate tools and handling equipment such as trolleys, ladders
A. Organizational	<ul> <li>PC28. Handle heavy and hazardous materials with care and using appropriate tools and handling equipment such as trolleys, ladders</li> <li>tanding (K)</li> <li>The individual on the job needs to know and understand:</li> </ul>
A. Organizational	<ul> <li>PC28. Handle heavy and hazardous materials with care and using appropriate tools and handling equipment such as trolleys, ladders</li> <li>tanding (K)</li> <li>The individual on the job needs to know and understand:</li> <li>KA1. Policies on incentives, delivery standards, and personnel management.</li> </ul>
A. Organizational	<ul> <li>PC28. Handle heavy and hazardous materials with care and using appropriate tools and handling equipment such as trolleys, ladders</li> <li>tanding (K)</li> <li>The individual on the job needs to know and understand:</li> <li>KA1. Policies on incentives, delivery standards, and personnel management.</li> <li>KA2. Occupational safety and health policy followed</li> </ul>
A. Organizational	<ul> <li>PC28. Handle heavy and hazardous materials with care and using appropriate tools and handling equipment such as trolleys, ladders</li> <li>tanding (K)</li> <li>The individual on the job needs to know and understand:</li> <li>KA1. Policies on incentives, delivery standards, and personnel management.</li> <li>KA2. Occupational safety and health policy followed</li> <li>KA3. Emergency evacuation procedure</li> </ul>
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A. Organizational context	<ul> <li>PC28. Handle heavy and hazardous materials with care and using appropriate tools and handling equipment such as trolleys, ladders</li> <li>tanding (K)</li> <li>The individual on the job needs to know and understand:</li> <li>KA1. Policies on incentives, delivery standards, and personnel management.</li> <li>KA2. Occupational safety and health policy followed</li> <li>KA3. Emergency evacuation procedure</li> <li>KA4. Medical Policy</li> <li>KA5. Company laws and acts</li> <li>The individual on the job needs to know and understand:</li> </ul>
A. Organizational context B. Technical	<ul> <li>PC28. Handle heavy and hazardous materials with care and using appropriate tools and handling equipment such as trolleys, ladders</li> <li>tanding (K)</li> <li>The individual on the job needs to know and understand:</li> <li>KA1. Policies on incentives, delivery standards, and personnel management.</li> <li>KA2. Occupational safety and health policy followed</li> <li>KA3. Emergency evacuation procedure</li> <li>KA4. Medical Policy</li> <li>KA5. Company laws and acts</li> <li>The individual on the job needs to know and understand:</li> <li>KB1. The risks to health and safety and the measures to be taken to control those risks in the area of work</li> </ul>
A. Organizational context B. Technical	<ul> <li>PC28. Handle heavy and hazardous materials with care and using appropriate tools and handling equipment such as trolleys, ladders</li> <li>tanding (K)</li> <li>The individual on the job needs to know and understand:</li> <li>KA1. Policies on incentives, delivery standards, and personnel management.</li> <li>KA2. Occupational safety and health policy followed</li> <li>KA3. Emergency evacuation procedure</li> <li>KA4. Medical Policy</li> <li>KA5. Company laws and acts</li> <li>The individual on the job needs to know and understand:</li> <li>KB1. The risks to health and safety and the measures to be taken to control those risks in the area of work</li> <li>KB2. Workplace procedures and requirements for the handling of workplace</li> </ul>
Knowledge and Unders A. Organizational context B. Technical knowledge	<ul> <li>PC28. Handle heavy and hazardous materials with care and using appropriate tools and handling equipment such as trolleys, ladders</li> <li>tanding (K)</li> <li>The individual on the job needs to know and understand:</li> <li>KA1. Policies on incentives, delivery standards, and personnel management.</li> <li>KA2. Occupational safety and health policy followed</li> <li>KA3. Emergency evacuation procedure</li> <li>KA4. Medical Policy</li> <li>KA5. Company laws and acts</li> <li>The individual on the job needs to know and understand:</li> <li>KB1. The risks to health and safety and the measures to be taken to control those risks in the area of work</li> <li>KB2. Workplace procedures and requirements for the handling of workplace injuries/illnesses.</li> </ul>
A. Organizational context B. Technical	<ul> <li>PC28. Handle heavy and hazardous materials with care and using appropriate tools and handling equipment such as trolleys, ladders</li> <li>tanding (K)</li> <li>The individual on the job needs to know and understand:</li> <li>KA1. Policies on incentives, delivery standards, and personnel management.</li> <li>KA2. Occupational safety and health policy followed</li> <li>KA3. Emergency evacuation procedure</li> <li>KA4. Medical Policy</li> <li>KA5. Company laws and acts</li> <li>The individual on the job needs to know and understand:</li> <li>KB1. The risks to health and safety and the measures to be taken to control those risks in the area of work</li> <li>KB2. Workplace procedures and requirements for the handling of workplace injuries/illnesses.</li> <li>KB3. Basic emergency first aid procedure</li> </ul>
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RUBBER SKILL DEVELOPMENT COUNCIL	National Occupational Standards	Corporation
RSC/N5007	Carry Out Health & Safety	Transforming the skill landscape
	KB8. Use of hazardous materials, tools and equipments	
	KB9. Emergency evacuation and first aid procedures to be	followed
	KB10. Personal hygiene and fitness requirements	
	KB11. General duties under the relevant health and safety le	gislation
	KB12. What personal protective equipment and clothing sho	buld be worn and how it
	is cared for	
	KB13. The correct and safe way to use materials and equipm	ent required for work
	KB14. The importance of good housekeeping in the workpla	•
	KB15. Safe disposal methods for waste	
	KB16. Methods for minimizing environmental damage durin	g work
Skills (S)	·	
A. Core Skills/ Generic	Writing Skills	
Skills	The individual on the job needs to know and understand how	to:
	SA1. Record data which are required for record keeping pu	rpose
	SA2. Report problems to the appropriate person in a timely	y manner
	SA3. Write descriptions and details about incidents in repo	rts
	Reading Skills	
	SA4. Read instruction manuals for hand tools and equipme	nt
	SA5. Read instructions on work orders and procedures	
	Sho. Read instructions of work of dels and procedules	
		5 15 5 T
	Oral Communication	
	SA6. Receive instructions and seek advice from superiors	19
	SA7. Communicate clearly and effectively with others	
B. Professional Skills	Decision Making	
D. PTUIESSIUIIdi SKIIIS		
	To be competent, the individual must be able to:	
	SB1. Take a decision for any change/issue based on earlier	successes(documented
	previous history)on similar issues	
	SB2. Work out changes in case a new improved machine/e	quipment is added in the
	process or any new material/chemical is developed re	placing existing one.
	SB3. Make changes in cycle time due to improved process.	
	SB4. Use the standard operating procedure or trouble show	oting manuals for trouble
	shooting and other reference documents approved by	-
	SB5. Consult the peer group and superiors to arrive at a favorable superiors and superiors to arrive at a favorable superior supe	
	SB6. Use of standard available problem solving techniques	-
	SB7. Review and analyze the process steps to check on syst	tem non adherence and
	non conformity	
	SB8. Review the current SOP and other standards for conti	nuous improvement to
	facilitate decision making	•





#### National Occupational Standards Carry Out Health & Safety



<ul> <li>SB9. Take a calculated risk with minimum losses</li> <li>Plan and Organize</li> <li>SB10. Schedule daily activities and drawing up priorities; Allocate start times, estimation of completion times and materials, equipment and assistance required for completion.</li> <li>Customer Centricity</li> <li>SB11. Match customer needs/specification by adjusting the processing conditions (interact with customer in case any clarification required)</li> <li>SB12. Ensure that performance of his action/operation/activity does not lead to any divergence from the specified quality of the final product as required by the customer.</li> <li>SB13. Complete the assigned task in timely manner so that the final product is delivered in the timeline given by the customer.</li> <li>SB14. Communicate effectively to the superior/customer for any delay in supplies to the clients.</li> <li>SB15. Work towards fulfilling the customers requirement as per their demand.</li> <li>SB16. In case of any complaint, ensure its timely resolution if the problem is emanating at his level</li> <li>SB17. Communicate effectively to the superior/customer for any delay in resolving the problem faced by the customer.</li> <li>SB18. Maintain good/cordial relation with customers.</li> <li>SB19. Work on the feedback received from customer regarding the product.</li> <li>Problem Solving</li> <li>SB20. Use first aid treatment in case of any injury/accident.</li> <li>Analytical Thinking</li> <li>SB21. Monitor and maintain the condition of tools and equipment SB22. Assess situation &amp; identify appropriate control measures</li> <li>Critical Thinking</li> <li>SB23. Act, communicate and report in emergency situation</li> </ul>		
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**NOS Version Control** 

NOS Code	RSC/N5007					
Credits(NSQF)	TBD	Version number	1.0			
Industry	Rubber Industry	Drafted on	27/02/17			
Industry Sub-sector	Tyre, Non Tyre	Last reviewed on	23/08/2017			
Occupation	Mixing	Next review date	23/08/2021			

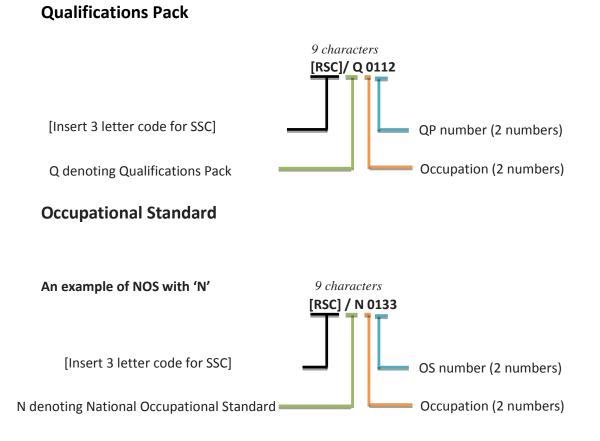






# **Annexure**

# Nomenclature for QP and NOS



#### Back to top...





The following acronyms/codes have been used in the nomenclature above:

Sub-sector	Range of Occupation numbers
Latex	02-34
Non-tyre	12-12
Rubber Manufacturing	28-28
Tyre	02-36
Tyre & Non -Tyre	01-37

Sequence	Description	Example
Three letters	Industry name	[RSC]
Slash	/	/
Next letter	Whether <b>Q</b> P or NOS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	33





# **Criteria For Assessment Of Trainees**

# <u>Job Role:</u> Rubber Internal Mixer Operator <u>Qualification Pack Code:</u> RSC/Q0112 <u>Sector Skill Council:</u> 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. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.

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

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

6. To pass the Qualification Pack , every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.

7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Total Marks: 70	Compulsory NOS 0				arks cation
Assessment outcomes	Assessment Criteria for outcomes	Tota I Mar ks	Out Of	Theor y	Skills Practic al
	PC1. Ensure that the mixer is clean and ready for operation		3	3	0
	PC2. Ensure functioning of safety features of Internal Mixer and other accessories		4	4	0
RSC/N0133 Prepare	PC3. Ensure proper functioning of different upstream and downstream equipment attached with the Mixer like hydraulic/pneumatic system, temperature control unit (TCU), lubrication system, energy control system (power integrator), dust extractor including material/ batch handling equipment as appropriate		15	5	10
internal mixer and accessories_v	PC4. Set parameters for the equipment (mixing cycle time, temperature, energy and pressure) and Filler & Oil loading system as per company's SOP Raw material appropriateness	100	15	5	10
2	PC5. Ensure availability of pre-weighed, approved rubber and other ingredients to be fed as per batch requirement		8	3	5
	PC6. Ensure that weighing scale(Put up or the scale used for weighing rubber, mixed chemicals) is calibrated		8	3	5
	PC7. Ensure that rubber compound to be fed is approved by laboratory		3	3	0
	PC8. Ensure that all raw materials have been assembled/organized (in correct sequence, if applicable) to be fed into mixer	]	8	3	5





		7		l	
	PC9. Ensure all ingredients are homogeneously mixed.		3	3	0
	PC10. Ensure proper housekeeping and safety in mixing area		3	3	0
	PC11. Ensure that electrical devices that may be exposed to carbon black dust are sealed.		3	3	0
	PC12. Blow periodically the electrical devices with clean/dry compressed air or vacuum clean.		3	3	0
	PC13. Ensure that the exhaust systems are used to maintain the concentration levels		8	3	5
	PC14. Adhere to all safety norms (like wearing protective gloves, shoes,	-	8	3	5
	Safety Glasses etc) PC15. Comply with health, safety, environment guidelines, regulations etc in accordance with international/national standards or	-	8	3	5
	organizational SOP		100	50	50
	Total		100	50	50
	PC1. Handle the rubber compound to avoid contamination	_	3	3	0
	PC2. Ensure that batch size of rubber mix is as per company's SOP		3	3	0
	PC3. Ensure that identified & approved materials are used.		8	3	5
	PC4. Ensure that the sequence in shift is based on raw material availability to maximize output	100	8	3	5
	PC5. Add the ingredients in sequence as per SOP considering different types of mixing process possible		8	3	5
	PC6. Check and adjust cooling water flow rate (mixing temperature control)		10	5	5
	PC7. As per cycle, raise Ram/open kneader and brush powder inside kneader from machine side as per SOP		10	5	5
RSC/N0134 Mix in internal	PC8. Control mixing process and completion as per SOP (temperature or time or energy as programmed/ specified)		15	5	10
mixer to	PC9. Release the batch after completion of mixing cycle as per SOP		4	4	0
prepare rubber	PC10. Inform the batch off mill man about the release of batch as per SOP.		3	3	0
compound_v2	PC11. Prepare the Internal Mixer for next batch as per Planning.	_	3	3	0
	PC12. Ensure Housekeeping and Safety in mixing area	-			
		_	3	3	0
	PC13. Ensure that electrical devices that may be exposed to carbon black dust are sealed.		3	3	0
	PC14. Blow periodically the electrical devices with clean/dry compressed air or vacuum clean.		3	3	0
	PC15. Ensure that the exhaust systems are used to maintain the concentration levels of various particulate matters within limits		6	3	3
	PC16. Adhere to all safety norms (like wearing protective gloves, shoes, Safety Glasses, etc.)		5	4	1
	PC17. Comply with health, safety, environment guidelines, regulations etc in accordance with international/national standards or organizational SOP		5	4	1
	Total		100	60	40
	PUL HIT THE KNEADER ON COMPLETION OF CVCIE OF DISCHARGE THE DATCH				
RSC/N0135 Undertake	PC1. Tilt the kneader on completion of cycle or discharge the batch from internal mixer after completion of mixing cycle	100	8	3	5





BER SKILL DEVELOPMENT COUNCIL	Qualifications Pack For Rubber Internal Mixer Operator		Ir	ransi
mixing activities_v2	PC3. Ensure that no compound has been left inside (before charging for next batch)		7	
	PC4. Handle the finished batch on dump mill as per SOP		3	
	PC5. Ensure shifting of the batch from dump mill to the batch off unit for cooling & stacking on the skids as per SOP		3	
	PC6. Handover the equipment to the next operator in clean and good condition		3	
	PC7. Dispose waste material in safe manner as per company's SOP		8	
	PC8. Ensure identification and traceability by batch marking/ coding for the right product as per instructions laid down by the company (in terms of batch number, colour, date stamp etc)		14	
	PC9. Send sample of specified compound/ batch in specified form to lab for testing		4	
	PC10. Send the remaining material to the designated storage area		5	
	PC11. Ensure Housekeeping and Safety in mixing area		4	
	PC12. Ensure that electrical devices that may be exposed to carbon black dust are sealed		4	
	PC13. Blow periodically the electrical devices with clean/dry compressed air or vacuum clean		4	
	PC14. Ensure that the exhaust systems are used to maintain the concentration levels of various particulate matters within limits		9	
	PC15. Adhere to all safety norms (like wearing protective gloves, shoes, Safety Glasses, etc)		8	
	PC16. Comply with health, safety, environment guidelines, regulations etc in accordance with international/national standards or organizational SOP		8	
	Total		100	
	PC1. Inspect the area while taking into account various surfaces		3	
	PC2. Inspect the area is free of usable material intended for mixing on the floor .			
	PC3. Identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain		3	
	PC4. Ensure that the cleaning equipment is in proper working condition		3	
RSC/N5001	PC5. Select the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person		3	
Carry out housekeeping	PC6. Plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces	100	3	
in rubber product	PC7. Inform the affected people about the cleaning activity		2	
manufacturing	PC8. Display the appropriate signage for the work being conducted		3	
	PC9. Ensure that there is adequate ventilation for the work being carried out		3	
	PC10. Wear the personal protective equipment required for the cleaning method and materials being used		3	
	PC11. Use the correct cleaning method for the work area, type of soiling and surface		3	
	PC12. Carry out cleaning activity without disturbing others		3	$\bot$
	PC13. Deal with accidental damage, if any, caused while carrying out		3	
		-		





the work       PC14. Report to the appropriate person any difficulties in carrying out your work       a			
your work	3	3	0
PC15. Identify and report to the appropriate person any additional cleaning required that is outside one's responsibility or skill	3	3	0
PC16. Ensure that there is no oily substance on the floor to avoid slippage	9	3	6
PC17. Ensure that no scrap material is lying around	9	3	6
PC18. Maintain and store housekeeping equipment and supplies	3	3	0
PC19 Follow workplace procedures to deal with any accidental	3	3	0
PC20. Ensure that, on completion of the work, the area is left clean and dry and meets requirements	8	2	6
PC21. 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
PC22. Dispose the waste garnered from the activity in an appropriate manner	9	3	6
PC23. Dispose of used and un-used solutions according to manufacturer's instructions, and clean the equipment thoroughly	9	3	6
PC24. Maintain schedules and records for housekeeping duty	3	3	0
PC25. Replenish any necessary supplies or consumables	3	3	0
Total 10	00	70	30
PC1. Report data/problems/incidents as applicable in a timely manner 1	.2	8	4
PC2. Report to the appropriate authority as laid down by the company	2	8	4
PC3. Follow reporting procedures as prescribed by the company 1	.2	8	4
PC4. Identify documentation to be completed relating to one's role	.0	6	4
PC5. Record details accurately an appropriate format	.6	6	10
PC6. Complete all documentation within stipulated time according to	.4	4	10
PC7 Ensure that the final document meets with the requirements of	6	4	2
PC8. Make sure documents are available to all appropriate authorities to inspect	6	4	2
whilst following organizational procedures	6	6	0
PC10. Inform the appropriate authority of requests for information	6	6	0
received	00	60	40
Total 10			
Total     10       PC1. Ensure that total range of checks are regularly and consistently performed     2	4	10	14
Total     10       PC1. Ensure that total range of checks are regularly and consistently performed     2       PC2. Use appropriate measuring instruments, equipment, tools     2	4		14 14
Total       10         PC1. Ensure that total range of checks are regularly and consistently performed       2         PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as required       100         Quality       PC3. Identify non-conformities to quality assurance standards       100		10	
Total       10         PC1. Ensure that total range of checks are regularly and consistently performed       2         RSC/N5003       PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as required       100         Quality       PC3. Identify non-conformities to quality assurance standards       100         Checks       PC4. Identify notential causes of non-conformities to quality assurance       6	4	10 10	14





	company standards				
	PC6. Evaluating the need for action to ensure that problems do not recur		6	4	2
	PC7. Suggest corrective action to address problem		5	3	2
	PC8. Review effectiveness of corrective action		5	3	2
	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
	Total		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
	PC3. Identify practices that may impact the final product quality	100	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
	PC9. Consider applicable corrections and formulate corrective action		3	3	0
RSC/N5004	PC10. Formulate action in a timely manner		3	3	0
Carry Out Problem	PC11. Communicate problem/remedial action to appropriate parties	]	7	5	2
Identification	PC12. Take corrective action in a timely manner	]	2	2	0
And Escalation	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





	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
	Total		100	70	30
	PC1. Undertake basic safety checks before operation of all machinery		6	4	2
	and equipment and report hazards to the appropriate supervisor		0	4	2
	PC2. Work for which protective clothing or equipment is required is		-		-
	identified and the appropriate protective clothing or equipment is		6	4	2
	used in performing these duties in accordance with workplace policy. PC3. Read and understand the hazards of use and contamination				
	mentioned on the labels of chemicals, utilities etc		0	0	0
	PC4. Prior to performing manual handling jobs, risk is assessed and	-			
	work is carried out according to currently recommended safe		6	4	2
	practices.				
	PC5. Use equipment and materials safely and correctly and return the		3	2	1
	same to designated storage when not in use		3	2	1
	PC6.Dispose off waste safely and correctly in a designated area		6	4	2
	PC7. Risks to bystanders are recognized and action taken to reduce		0	0	0
	risk associated with jobs in the workplace		0	0	0
	PC8. Perform work in a manner which minimizes environmental		0	0	0
	damage		0	Ű	Ű
	PC9. All procedures and work instructions for controlling risk are		0	0	0
	followed closely.				
RSC/N5007	PC10. Report any accidents, incidents or problems without delay to an		0	0	0
Carry out	appropriate person and take immediate necessary action to reduce further danger.	100	0	0	0
health and	PC11.Follow procedures for dealing with accidents, fires and	100			
safety	emergencies, including communicating location and directions to		6	4	2
	emergency.				
	PC12.Follow emergency procedures as per company standards and		8	5	3
	workplace requirements.		0	5	5
	PC13.Use Emergency equipment in accordance with manufacturers'		8	5	3
	specifications and workplace requirements.			<u> </u>	
	PC14. Provide treatment appropriate to the patient's injuries in		0	0	0
	accordance with recognized first aid techniques.				
	PC15. Recover (if practical), clean, inspect/test, refurbish, replace and store the first aid equipment as appropriate		0	0	0
	PC16. Dispose off medical waste in accordance with workplace				
	requirements		0	0	0
	PC17.Report details of first aid administered in accordance with work	-			
	place procedures.	-	7	4	3
	PC18. Comply with general safety procedures		8	4	4
	PC 19. Follow standard safety procedures while handling equipment,	1	_		
	hazardous material or tool		0	0	0
	PC20. Check parts of the workplace and take preventive actions like	1			
	spraying and other steps to protect from leakages, water logging,		8	5	3
	pests, fire, pollution, etc.				





Total		100	60	40
	d hazardous materials with care and using nandling equipment such as trolleys, ladders	4	2	2
PC27.Use safety mater shoes, etc.(as applicab	ials such as protective gear, goggles, caps, e with workplace)	4	2	2
PC26. Avoid accidents sharp tools and equipn	while using hazardous chemicals, machines, nent	4	2	2
PC25. Be alert of any e procedures to be follow	vents and do not be negligent to any safety ved	0	0	0
PC24. Be aware of first	aid, evacuation and emergency procedures	4	2	2
PC23. Attend fire drills at the workplace	and other safety related workshops organized	4	2	2
PC22. Keep the workpl	ace organized, swept, clean and hazard free	8	5	3
PC21. Ensure no accide any breach of company	ents and damages at the workplace, reporting of / safety procedure	0	0	0