



# QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR RUBBER INDUSTRY

# What are Occupational Standards(OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding



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# Introduction

# **Qualifications Pack- Mill Operator**

**SECTOR:** RUBBER INDUSTRY

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

**OCCUPATION:** Mixing

**REFERENCE ID:** RSC/ Q 0101

**ALIGNED TO:** NCO-2004/8159.36

**Brief Job Description:** The mill operator is responsible for feeding the rubber into the two roll mixing machine and carry out mixing and warming of rubber as per cycle times.

**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.

# Qualifications Pack For Mill Operator





Qualifications Pack Code	RSC/ Q 0101		
Job Role		Mill Operator	
Credits(NSQF)	TBD	Version number	1
Sector	Rubber Industry	Drafted on	20/03/13
Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Mixing	Next review date	29/12/17
NSQC Clearnace on	18/06/2015		

Job Role	Mill operator	
Role Description	The mill operator is responsible for feeding the rubber into the two roll mixing machine and carry out mixing and warming of rubber as per cycle times.	
NSQF level	4	
Minimum Educational Qualifications*	Class X	
Maximum Educational Qualifications*	ITI/Graduate in Science	
Training (Suggested but not mandatory)	Training on operation of machinery	
Minimum Job Entry Age	18 years	
Experience	In lieu of minimum qualification the employee has worked as	
	a semi-skilled helper for minimum 6 months in the same role.	
	Compulsory:	
	1. RSC/ N0101 (Prepare mixing mill and accessories)	
	2. RSC/ N0102 (Mix raw material in mixing mill to prepare	
	<u>rubber compound</u> )	
	3. RSC/ N0103 ( <u>Undertake post mixing mill activities</u> )	
Applicable National Occupational	4. RSC/ N5001 (To carry out housekeeping)	
Standards (NOS)	5. RSC/ N5002 ( <u>To carry out reporting and documentation</u> )	
	6. RSC/ N5003 ( <u>To carry out quality checks</u> )	
	7. RSC/ N5004 ( <u>To carry out problem identification and</u>	
	<u>escalation</u> )	
	Optional:	
	8. NA	
Performance Criteria	As described in the relevant OS units	

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# Qualifications Pack For Mill Operator

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







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# National Occupational Standard



# **Overview**

This unit is about preparing mixing mill and other accessories for mixing raw material to make rubber compound



# GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP



#### RSC/ N 0101 **Prepare Mixing Mill And Accessories**

Unit Code	RSC / N 0101		
Unit Title (Task)	Prepare mixing mill and accessories		
Description	This unit is about preparing mixing mill and other accessories for the mixing operation		
Scope	This unit/task covers the following:		
	Ensuring housekeeping and safety in the mixing area  Proposition of the responsible required (like and line water, budged) is suctored.		
	<ul> <li>Preparing other accessories required (like cooling water, hydraulic system, temperature control unit (TCU), lubrication system)</li> </ul>		
	Setting the parameters of the mixing mill and accessories to carry out		
	operations		
Performance Criteria (I	PC) w.r.t. the Scope		
Element	Performance Criteria		
Equipment readiness  Raw material appropriateness	<ul> <li>To be competent, the user/individual on the job must be able to</li> <li>PC1. Ensure functioning of safety features of -mixing mill (e.g. safety pad, safety bar) and other accessories</li> <li>PC2. Ensure that the mixing mill is clean</li> <li>PC3. Set parameters for the equipment (mixing cycle time, roll temperature and nip gap), as per company's SOP</li> <li>PC4. Keep all accessories (like cooling water, hydraulic system, temperature control unit (TCU), lubrication system) and stock blender (if available) ready</li> <li>PC5. Keep all hand tools like mixing knife, cooling rack etc. ready</li> <li>PC6. Ensure availability of pre-weighed, approved rubber and other ingredients to be fed as per recipe and batch size</li> <li>PC7. Ensure that raw material to be fed is approved by laboratory as per SOP</li> <li>PC8. Match the batch code of each raw material with the batch code on the job schedule given by the planning department</li> <li>PC9. Ensure that all raw materials have been assembled/organized (in correct</li> </ul>		
Health and Safety	PC10. Ensure housekeeping and safety in the Mixing mill area PC11. Ensure that electrical devices that may be exposed to carbon black dust are sealed.  PC12. Periodically blow the electrical devices with clean/dry compressed air.  PC13. Ensure that the exhaust systems are used to maintain the concentration levels of various particulate matters within limits as per SOP  PC14. Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses etc)  PC15. Comply with health, safety, environment guidelines, regulations etc in		
	accordance with international/national standards or organizational SOP		









## **Knowledge and Understanding (K)** The user/individual on the job needs to know and understand: KA1. Manufacturing process, including master batch and final batch process KA2. Implications of poorly prepared equipment, power failure etc KA3. Importance of identifying non-conforming material and storage of the same KA4. Risk and impact of not following defined procedures/work instructions KA5. Escalation matrix for reporting identified problems A. Organizational KA6. Types of documentation in organization and importance of the same Context KA7. Records to be maintained and implications of non-maintenance of the same (Knowledge of the KA8. Importance of housekeeping & good shop floor practices (eg 3S/5S) company / KA9. Health, Safety and Environment guidelines, legislation and regulations as organization and applicable its processes) 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 extinguisher KA16. Impact of various practices on cost, quality, productivity, delivery and safety KA17. Handover/ Takeover the equipment/ work area as per company's SOP The user/individual on the job needs to know and understand: KB1. Different types of mixing mill & their operation and function of different components of the mill (Equipment working, possible setting levels, friction ratio, typical process followed for different batches) KB2. Possible causes of common mixing problems & their remedies KB3. Tolerance levels for various parameters (temperature, nip gap, rpm of the roll, **B.** Technical and weight) KB4. Health hazards of process and compounding ingredients Knowledge KB5. Implications of delays in preparation process KB6. Types of defects leading to rejections, indicators, reasons and possible solutions KB7. Cleanliness and safety requirements for commencing a mixing batch operation KB8. Units of measurement KB9. Responding to emergencies e.g. Power failures ,fire and system failures and manual intervention to avoid disaster KB10. Appropriate batch size with respect to appropriate machinery KB11. Simple mathematics for specific gravity and batch weight calculation Skills (S) A. Core Skills/ **Writing Skills**



# NOS National Occupational Standards

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#### **Prepare Mixing Mill And Accessories**

# RSC/ N 0101

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**

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

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

## **Oral Communication (Listening and Speaking skills)**

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

- SA8. Express statements, opinions or information clearly so that others can hear and understand
- SA9. Respond appropriately to any queries
- SA10. Communicate with supervisor
- SA11. Communicate with upstream and downstream teams
- SA12. Work in a team and other behavioral skills required to support the small group activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
- SA13. Practice honesty with respect to company property and time
- SA14. Communicate with people in a form and manner and using language that is open and respectful
- SA15. Resolve any difficulties in relationships with colleagues , or get help from an appropriate person, in a way that preserves goodwill and trust
- SA16. Take responsibility for completing one's own work assignment
- SA17. Take initiative to enhance/learn skills in ones's area of work
- SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning.
- SA19. Is open to new ways of doing things
- SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them.
- SA21. Avoid absenteeism
- SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations
- SA23. Work in disciplined factory environment
- SA24. Be punctual



# National Occupational Standards





#### **Prepare Mixing Mill And Accessories**

B.Pro	fessior	nal Skills	

### **Decision Making**

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

- SB1. Take appropriate decisions regarding processing steps in view of changing quality and availability of raw materials and finished goods.
- SB2. Handling of various types of mixing mills
- SB3. Handle tools like mixing knife
- SB4. Handle rubber compound
- SB5. Handle chemicals
- SB6. Handling of various types of material handling equipment like forklifts, trolleys
- SB7. The capacity to apply technology, combining the physical and sensory skills needed to operate equipment with the understanding of scientific and technological principles needed to explore and adapt systems.

#### **Plan and Organize**

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

- SB8. seek clarification on problems from others
- SB9. apply problem-solving approaches in different situations
- SB10. refer anomalies to the line manager



#### **Customer Centricity**

NA

#### **Problem Solving**

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

- SB 11. Interpret quality for sheet
- SB 12 . Suggest improvements(if any) in process/product/materials based on results and experience

#### **Analytical Thinking**

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

- SB13. Proper collection of waste material
- SB14. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

#### **Critical Thinking**

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

- SB15. Handle equipment/rubber sheet SB6. seek clarification on problems from others
- SB16. apply problem-solving approaches in different situations
- SB17. refer anomalies to the line manager
- SB18. Identify any issues affecting the material, equipment or surroundings



# National Occupational Standards Prepare Mixing Mill And Accessories





SB19. Escalate issues that cannot be solved as per the troubleshooting/company
manual





# National Occupational Standards Prepare Mixing Mill And Accessories





# **NOS Version Control**

NOS Code	RSC / N 0101		
Credits(NSQF)	TBD	Version number	1
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Mixing	Next review date	29/12/17









# National Occupational Standard



# **Overview**

This unit is about mixing raw material in mixing mill to prepare rubber compound







# RSC/ N 0102 Mix Raw Material In Mixing Mill To Prepare Rubber Compound

Unit Code	RSC / N 0102		
Unit Title	Mix raw material in mixing mill to prepare rubber compound		
(Task)			
Description Scope	This unit is about mixing raw material in mixing mill to prepare rubber compound		
Зсоре	This unit/task covers the following:		
	<ul> <li>Ensuring housekeeping and safety in the mixing area</li> </ul>		
	Mixing raw materials in two roll mixing mill		
Performance Criteria (			
Element	Performance Criteria		
	To be competent, the user/individual on the job must be able to		
Raw Material	PC1. Handle the rubber compound to avoid contamination		
appropriateness	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 rubber and other ingredients in the mixing mill in the specified quantity and sequence as per company's SOP  PC6. Receive mixed batch dumped from intermix on the mill and form sheet.  a. Allow the entire compound to pass through the nip gap of the rolls.  b. Form a band on the front roll.  c. Cut the compound and re-roll for at least three times.  d. Pass the compound over the blender bar for better cooling and blending.  e. Let out compound from mill in continuous sheet form and pass through cooling festoon and wig wag for stacking.  PC7. Check and adjust cooling water flow rate as per SOP  PC8. Ensure proper rolling bank while mixing  PC9. Use stock blender, if available for better dispersion  PC10. Control mixing process and completion as per SOP (temperature or time or energy as programmed / specified)  PC11. Identify the batch as per SOP  PC12. Ensure maturation time for Master batch and Final batch before next usage		
Health and Safety	PC13. Ensure housekeeping and safety in the Mixing mill area PC14. Ensure that the electrical devices that may be exposed to carbon black dust are sealed. PC15. Periodically blow the electrical devices with clean/dry compressed air. PC16. Ensure that the exhaust systems are used to maintain the concentration levels of various particulate matters remain within limits as per SOP.		







# RSC/ N 0102 Mix Raw Material In Mixing Mill To Prepare Rubber Compound

-	A new Material III Mixing Mill To Frepare Number Compound
	PC17. Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses etc) PC18. Comply with health, safety, environment guidelines, regulations etc in
	accordance with international/national standards or organizational SOP.
Knowledge and Unders	standing (K)
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. Manufacturing process, including master batch and final batch process KA2. Different types of batches that are run in plant KA3. The specific materials, including quantities, to be used KA4. Properties of compounds 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 (eg 3S/5S) KA14. Health, Safety and Environment guidelines, legislation and regulations as applicable KA15. Personal protection (Which protective equipment to be used when 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  The user/individual on the job needs to know and understand:
B. Technical Knowledge	<ul> <li>KB1. Different types of mixing mill (e.g. cracker mill, , warm up mill, feed-mill, etc) &amp; its operation and function of different components of mills including operation of console in case of PLC control,</li> <li>KB2. Possible causes of common mixing problems &amp; their remedies</li> <li>KB3. Cleanliness and safety requirements for operating a milling machine</li> <li>KB4. Handling of different types of materials</li> <li>KB5. Tolerance levels for various parameters (time, temperature, pressure, nip gap</li> </ul>
	and weight)  KB6. Troubleshooting- Knowledge of abnormalities and what response to make in case of abnormalities in equipment performance







# Mix Raw Material In Mixing Mill To Prepare Rubber Compound

	KB7. Implications of overheating during mixing and adopting measures like		
	increasing water flow, adjusting nip gap, increasing number of cuts.		
	KB8. Health hazards of process and compounding ingredients		
	KB9. Awareness of different material forms to avoid dusting (E.g. Usage of polymer		
	bound or treated rubber chemicals, refined Aromatic process oil)		
	KB10. Usage of mixing accessories/ tools like mixing knife, pyrometer and their		
	maintenance procedures including stock blender, if available		
	KB11. Proper compound mixing & ingredient dispersion		
	KB12. Effect of improper processing on properties of rubber compound & product		
	KB13. The process and importance of quality check ,including visual inspection		
	KB14. Types of defects leading to rejections, indicators, reasons and possible solutions.		
	KB15. Potential problems like mill bagging, sticking to rolls, compound shifting to		
	fast roll in the mixing operation		
	KB16. Implications of delays in production process owing to issues in synchronization		
	with upstream/ downstream equipments		
	KB17. Units of measurement		
	KB18. Response to emergencies e.g. Power failures, fire and system failures and		
	manual intervention to avoid disaster		
	KB19. Appropriate batch size with respect to appropriate machinery		
	KB20. Simple mathematics for specific gravity and batch weight calculation		
Cl:II- (C)			
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 Skins	estimation and approximation, for practical purposes		
	Reading Skills		
	Reading Skills  The user/individual on the job needs to know and understand how to:		
	The user/individual on the job needs to know and understand how to:		
	The user/individual on the job needs to know and understand how to:  SA5. Read and understand manuals, health and safety instructions, memos, reports,		
	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		







# RSC/ N 0102 Mix Raw Material In Mixing Mill To Prepare Rubber Compound

with Kaw Material III Mixing Mill To Frepare Rubbel Compound	
The user/individual on the job needs to know and understand how to:	
SA8. Express statements, opinions or information clearly so that others can hear	
and understand	
SA9. Respond appropriately to any queries	
SA10. Communicate with supervisor	
SA11. Communicate with upstream and downstream teams	
SA12. Work in a team and other behavioral skills required to support the small group	
activities (Quality Circle, Cross Functional Team, Suggestion Scheme)	
SA13. Practice honesty with respect to company property and time	
SA14. Communicate with people in a form and manner and using language that is	
open and respectful	
SA15. Resolve any difficulties in relationships with colleagues , or get help from an	
appropriate person, in a way that preserves goodwill and trust	
SA16. Take responsibility for completing one's own work assignment	
SA17. Take initiative to enhance/learn skills in ones's area of work	
SA18. The capacity to learn from experience in a range of settings and scenarios and	
the capacity to reflect on and analyse one's learning.	
SA19. Is open to new ways of doing things	
SA20. The capacity to envisage and articulate personal goals; to develop strategies	
and take action to achieve them.	
SA21. Avoid absenteeism	
SA22. Act objectively , rather than impulsively or emotionally when faced with	
difficult/stressful or emotional situations	
SA23. Work in disciplined factory environment	
SA24. Be punctual	
Decision Making	
al Skills	
The user/individual on the job needs to know and understand how to:	
SB1. Take appropriate decisions regarding processing steps in view of changing quality	
and availability of raw materials and finished goods.	
SB2. Handling of various types of mixing mills	
SB3. Handle tools like mixing knife	
SB4. Handle rubber compound	
SB5. Handle chemicals	
SB6. Handling of various types of material handling equipment like forklifts, trolleys	
SB7. The capacity to apply technology, combining the physical and sensory skills	
needed to operate equipment with the understanding of scientific and technological	
principles needed to explore and adapt systems.	
Plan and Organize	
The user/individual on the job needs to know and understand how to:	
SB8. seek clarification on problems from others	







#### Mix Raw Material In Mixing Mill To Prepare Rubber Compound

SB9. apply problem-solving approaches in different situations SB10. refer anomalies to the line manager

### **Customer Centricity**

NA

#### **Problem Solving**

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

- SB 11. Interpret quality for sheet
- SB 12 . Suggest improvements(if any) in process/product/materials based on results and experience

#### **Analytical Thinking**

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

- SB13. Proper collection of waste material
- SB14. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

#### **Critical Thinking**

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

- SB15. Handle equipment/rubber sheet SB6. seek clarification on problems from others
- SB16. apply problem-solving approaches in different situations
- SB17. refer anomalies to the line manager
- SB18. Identify any issues affecting the material, equipment or surroundings
- SB19. Escalate issues that cannot be solved as per the troubleshooting/company manual



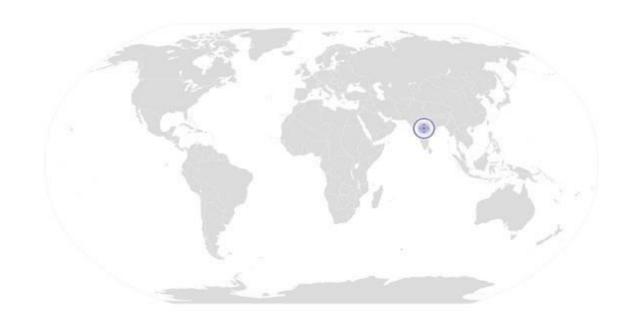




# Mix Raw Material In Mixing Mill To Prepare Rubber Compound

# **NOS Version Control**

NOS Code	RSC / N 0102		
Credits(NSQF)	TBD	Version number	1
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Mixing	Next review date	29/12/17







# National Occupational Standard



# **Overview**

This unit is about undertaking activities post mixing of raw materials in the mill







	National Occupational Standards GOVERNMENT OF INDIA
RSC/ N 0103	Undertake post mixing mill activities  MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP  Transforming the skill
Unit Code	RSC / N 0103
Unit Title (Task)	Undertake post mixing mill activities
Description	This unit is about undertaking post mixing operations
Scope	This unit/task covers the following:
	Ensuring housekeeping and safety in the mixing area
	Sheet off compound
	Form appropriate batches of the compound
	Mark the batch for proper identification in further processing
	Send sample to lab for testing and transfer remaining material to designated
	area
Performance Criteria (	PC) w.r.t. the Scope
Element	Performance Criteria
Operations	PC1. Sheet off the compound followed by cooling PC2. Ensure that no compound has been left inside in roller guides, stock blender and mill tray PC3. Handover the equipment to the next operator in clean and good condition
Material disposal	PC4. Dispose waste material in safe manner as per company's SOP
Batch Marking	PC5. 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, weight, colour, date stamp etc)
Sampling	PC6. Send sample of specified compound/ batch in specified form to lab for testing PC7. Send the remaining material to the designated storage area
Health & Safety	PC8. Ensure that the electrical devices that may be exposed to carbon black dust are sealed.  PC9. Periodically blow the electrical devices with clean/dry compressed air.  PC10. Ensure that the exhaust systems are used to maintain the concentration levels of various particulate matters remain within limits.  PC11. Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses etc)  PC12. Comply with health, safety, environment guidelines, regulations etc in accordance with international/national standards or organizational SOP



# Undertake post mixing mill activities





The user/individual on the job needs to know and understand: KA1. Implications of poorly prepared material, power failure etc KA2. Material disposal procedure, importance of appropriate disposal of material and implications of not following the material disposal procedure KA3. Significance of batch marking KA4. Importance of identifying non-conforming product and storage of the same KA5. Risk and impact of not following defined procedures/work instructions KA6. Escalation matrix and procedure for reporting identified problems KA7. Types of documentation in organization and importance of the same KA8. Records to be maintained and implications of non-maintenance of the same KA9. Importance of housekeeping & good shop floor practices (eg 3S/5S) KA10. Health, Safety and Environment guidelines, legislation and regulations as applicable KA11. Personal protection( Which protective equipment to be used when and how) KA12. Potential hazards and actions to minimize the same KA13. Impact of poor practices on health, safety and environment KA14. Escalation matrix and procedure for reporting hazards KA15. Importance of FIFO KA16. The usage of different fire extinguisher KA17. Impact of various practices on cost, quality, productivity, delivery and safety
KA2. Material disposal procedure, importance of appropriate disposal of material and implications of not following the material disposal procedure  KA3. Significance of batch marking  KA4. Importance of identifying non-conforming product and storage of the same  KA5. Risk and impact of not following defined procedures/work instructions  KA6. Escalation matrix and procedure for reporting identified problems  KA7. Types of documentation in organization and importance of the same  KA8. Records to be maintained and implications of non-maintenance of the same  KA9. Importance of housekeeping & good shop floor practices (eg 3S/5S)  KA10. Health, Safety and Environment guidelines, legislation and regulations as applicable  KA11. Personal protection( Which protective equipment to be used when and how)  KA12. Potential hazards and actions to minimize the same  KA13. Impact of poor practices on health, safety and environment  KA14. Escalation matrix and procedure for reporting hazards  KA15. Importance of FIFO  KA16. The usage of different fire extinguisher  KA17. Impact of various practices on cost, quality, productivity, delivery and safety
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KA19 Handsver/ Take ever the applicance of / week area as an energy of COD
KA18. Handover/ Takeover the equipment/ work area as per company's SOP
The user/individual on the job needs to know and understand:
KB1. Batch marking techniques
KB2. Implications of incorrect batch marking
B. Technical KB3. Implications of inappropriate waste disposal
KB4. Types of defects leading to rejections, indicators, reasons and possible
solutions.
KB5. Units of measurement
KB6. Coding systems for identification and traceability
KB7. Response to emergencies e.g. Power failures ,fire and system failures
KB8. Use of weighing scales
KB9. Storage life of the compound, knowledge of ambient temperature and effect
on compound
Skills (S)
Writing Skills
The user/ individual on the job needs to know and understand how to:
A. Core Skills/ SA1. Construct simple sentences and express ideas clearly through written
Generic Skills communication
SA2. Fill up appropriate technical forms, process charts, activity logs in required
format of the company



## Undertake post mixing mill activities





### **RSC/ N 0103**

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
Readir	ng and Understanding Skills
The u	ser/individual on the job needs to know and understand how to:

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

### Oral Communication (Listening and Speaking skills)

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

- SA8. Express statements, opinions or information clearly so that others can hear and understand
- SA9. Respond appropriately to any queries
- SA10. Communicate with supervisor
- SA11. Communicate with upstream and downstream teams
- SA12. Work in a team and other behavioral skills required to support the small group activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
- SA13. Practice honesty with respect to company property and time
- SA14. Communicate with people in a form and manner and using language that is open and respectful
- SA15. Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust
- SA16. Take responsibility for completing one's own work assignment
- SA17. Take initiative to enhance/learn skills in ones's area of work
- SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning.
- SA19. Is open to new ways of doing things
- SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them.
- SA21. Avoid absenteeism
- SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations
- SA23. Work in disciplined factory environment
- SA24. Be punctual

#### **Decision Making**



## Undertake post mixing mill activities





#### **B.Professional Skills**

**RSC/ N 0103** 

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

- SB1. Take appropriate decisions regarding processing steps in view of changing quality and availability of raw materials and finished goods.
- SB2. Handling of various types of mixing mills
- SB3. Handle tools like mixing knife
- SB4. Handle rubber compound
- SB5. Handle chemicals
- SB6. Handling of various types of material handling equipment like forklifts, trolleys
- SB7. The capacity to apply technology, combining the physical and sensory skills needed to operate equipment with the understanding of scientific and technological principles needed to explore and adapt systems.

#### Plan and Organize

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

- SB8. seek clarification on problems from others
- SB9. apply problem-solving approaches in different situations
- SB10. refer anomalies to the line manager

#### **Customer Centricity**

NA

### **Problem Solving**

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

- SB 11. Interpret quality for sheet
- SB 12 . Suggest improvements(if any) in process/product/materials based on results and experience

#### **Analytical Thinking**

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

- SB13. Proper collection of waste material
- SB14. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

### **Critical Thinking**

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

- SB15. Handle equipment/rubber sheet SB6. seek clarification on problems from others
- SB16. apply problem-solving approaches in different situations
- SB17. refer anomalies to the line manager
- SB18. Identify any issues affecting the material, equipment or surroundings
- SB19. Escalate issues that cannot be solved as per the troubleshooting/company manual







# **NOS Version Control**

NOS Code	RSC / N 0103		
Credits(NSQF)	TBD	Version number	1
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Mixing	Next review date	29/12/17







# National Occupational Standard



# **Overview**

This unit is about carrying out housekeeping







# To Carry Out Housekeeping

Unit Code	RSC / N 5001	
Unit Title	To carry out housekeeping	
(Task)		
Description	This unit is about carrying out housekeeping activities	
Scope	This unit/task covers the following:	
	Preparing for housekeeping activities	
	Carry out housekeeping activities	
	Post housekeeping activities	
Performance Criteria (I	PC) w.r.t. the Scope	
Element	Performance Criteria	
	To be competent, the user/individual on the job must be able to:	
Pre housekeeping activities	<ul> <li>PC1. Inspect the area while taking into account various surfaces</li> <li>PC2. Identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain</li> <li>PC3. Ensure that the cleaning equipment is in proper working condition</li> <li>PC4. Select the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person</li> <li>PC5. Plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces</li> <li>PC6. Inform the affected people about the cleaning activity</li> <li>PC7. Display the appropriate signage for the work being conducted</li> <li>PC8. Ensure that there is adequate ventilation for the work being carried out</li> <li>PC9. Wear the personal protective equipment required for the cleaning method and materials being used</li> </ul>	
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 activities	PC15. Ensure that there is no oily substance on the floor to avoid slippage PC16. Ensure that no scrap material is lying around PC17. Maintain and store housekeeping equipment and supplies PC18. Follow workplace procedures to deal with any accidental damage caused during the cleaning process	







# To Carry Out Housekeeping

K3C/ N 3001	To carry out nousekeeping
	PC19. Ensure that, on completion of the work, the area is left clean and dry and meets requirements  PC20. Return the equipment, materials and personal protective equipment that were used to the right places making sure they are clean, safe and securely stored PC21. Dispose the waste garnered from the activity in an appropriate manner PC22. Dispose of used and un-used solutions according to manufacturer's
	instructions, and clean the equipment thoroughly
General	PC23. Maintain schedules and records for housekeeping duty PC24. Replenish any necessary supplies or consumables
Knowledge and Under	standing (K)
B. Technical Knowledge	<ul> <li>KB1. The levels of hygiene required by workplace and why it is important to maintain them during your work</li> <li>KB2. How to inspect a work area to decide what cleaning it needs</li> <li>KB3. Methods and materials that used for cleaning variety of surfaces</li> <li>KB4. The types of cleansing agents that are not to be mixed together</li> <li>KB5. The correct method for cleaning equipment and/or machinery used during your work</li> <li>KB6. The importance of personal protective equipment</li> <li>KB7. Appropriate personal protective equipment for the work area, cleaning equipment, tools, materials and chemicals used</li> <li>KB8. The correct sequence for cleaning the work area</li> <li>KB9. The time taken by the treatment to work</li> <li>KB10. The importance of following manufacturer's instructions on cleaning agents</li> <li>KB11. The most appropriate place to carry out test cleans and why this should be done before applying treatments</li> <li>KB12. The importance of applying treatments evenly and the effect of not doing this</li> <li>KB13. Process of cleaning the surfaces without causing injury or damage</li> <li>KB14. The method to check the treated surface and equipment on completion of cleaning</li> <li>KB15. Procedures for reporting any unidentified soiling</li> <li>KB16. Procedures for disposing off waste</li> <li>KB17. Procedures for disposing off or storing personal protective equipment</li> <li>KB18. Escalation procedures for soils or stains that could not be removed</li> </ul>
Skills (S)	
	Writing Skills
A. Core 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







	National Occupational Standards  National Occupational Standards  MINISTRY OF SKILL DEVELOPMENT  Transforming the sk
RSC/ N 5001	To Carry Out Housekeeping
	SA2. Fill up appropriate technical forms, process charts, activity logs in required
	format of the company
	SA3. Write simple letters, mails, etc
	SA4. Perform functional mathematical operations, including apply basic
	mathematical principles, such as numbers and space, and techniques such as
	estimation and approximation, for practical purposes
	Reading and Understanding Skills
	The user/individual on the job needs to know and understand how to:
	SA5. Read and understand manuals, health and safety instructions, memos, reports,
	job cards etc
	SA6. Read images, graphs, diagrams
	SA7. Understand the various coding systems as per company norms
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA8. Express statements, opinions or information clearly so that others can hear
	and understand
	SA9. Respond appropriately to any queries
	SA10. Communicate with supervisor
	SA11. Communicate with upstream and downstream teams
	SA12. Work in a team and other behavioral skills required to support the small group
	activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
	SA13. Practice honesty with respect to company property and time
	SA14. Communicate with people in a form and manner and using language that is open and respectful
	SA15. Resolve any difficulties in relationships with colleagues , or get help from an
	appropriate person, in a way that preserves goodwill and trust
	SA16. Take responsibility for completing one's own work assignment
	SA17. Take initiative to enhance/learn skills in ones's area of work
	SA18. The capacity to learn from experience in a range of settings and scenarios and
	the capacity to reflect on and analyse one's learning.
	SA19. Is open to new ways of doing things
	SA20. The capacity to envisage and articulate personal goals; to develop strategies
	and take action to achieve them.
	SA21. Avoid absenteeism
	SA22. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA23. Work in disciplined factory environment

# **Decision Making**

SA24. Be punctual







### To Carry Out Housekeeping

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

- SB1. Take appropriate decisions regarding processing steps in view of changing quality and availability of raw materials and finished goods.
- SB2. Handling of various types of mixing mills
- SB3. Handle tools like mixing knife
- SB4. Handle rubber compound
- SB5. Handle chemicals
- SB6. Handling of various types of material handling equipment like forklifts, trolleys
- SB7. The capacity to apply technology, combining the physical and sensory skills needed to operate equipment with the understanding of scientific and technological principles needed to explore and adapt systems.

#### **Plan and Organize**

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

- SB8. seek clarification on problems from others
- SB9. apply problem-solving approaches in different situations
- SB10. refer anomalies to the line manager

#### **Customer Centricity**

NA

### **Problem Solving**

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

- SB 11. Interpret quality for sheet
- SB 12 . Suggest improvements(if any) in process/product/materials based on results and experience

#### **Analytical Thinking**

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

- SB13. Proper collection of waste material
- SB14. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

#### **Critical Thinking**

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

- SB15. Handle equipment/rubber sheet SB6. seek clarification on problems from others
- SB16. apply problem-solving approaches in different situations
- SB17. refer anomalies to the line manager
- SB18. Identify any issues affecting the material, equipment or surroundings
- SB19. Escalate issues that cannot be solved as per the troubleshooting/company manual



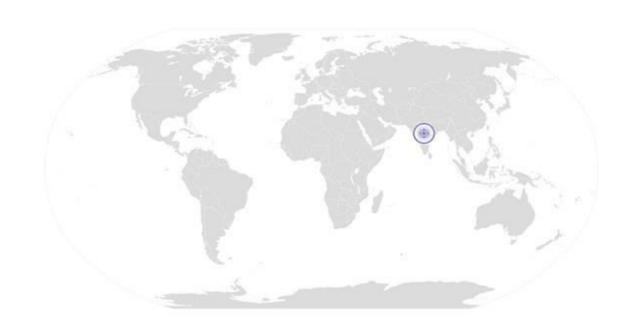
# National Occupational Standards To Carry Out Housekeeping





# **NOS Version Control**

NOS Code	RSC / N 5001		
Credits(NSQF)	TBD	Version number	1
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Mixing	Next review date	29/12/17





# National Occupational Standard



# **Overview**

This unit is about reporting and documentation







# **To Carry Out Reporting And Documentation**

Unit Code	RSC / N 5002
Unit Title	1.3002
(Task)	To carry out reporting and documentation
Description	This unit is about carrying out reporting and documentation
Scope	This unit/task covers the following:  Reporting of data/problem/incidents etc Documentation Information Security
Performance Criteria (	PC) w.r.t. the Scope
Element	Performance Criteria
Reporting	To be competent, the user/individual on the job must be able to:  PC1. Report data/problems/incidents as applicable in a timely manner PC2. Report to the appropriate authority as laid down by the company PC3. Follow reporting procedures as prescribed by the company
Recording and Documentation	PC4. Identify documentation to be completed relating to one's role PC5. Record details accurately an appropriate format PC6. Complete all documentation within stipulated time according to company procedure PC7. Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly PC8. Make sure documents are available to all appropriate authorities to inspect
Information Security	PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures PC10. Inform the appropriate authority of requests for information received
Knowledge and Under	
B. Technical Knowledge	The user/individual on the job needs to know and understand:  KA1. Different methods of recording information  KA2. Various documents that need to be maintained  KA3. Company procedure for filling/maintaining up the documents  KA4. Procedures for reporting to the appropriate authority  KA5. Procedures for recording damage, breakages etc  KA6. Reporting incidents where standard operating procedures are not followed  KA7. The importance of complete and accurate documentation  KA8. How to maintain complete documentation accurately and within agreed timescales







## **To Carry Out Reporting And Documentation**

RSC/ N 5002	To Carry Out Reporting And Documentation
	KA9. The importance of ensuring that the documents are correct
	KA10. The actions to be taken if the documents are not correct
	KA11. The importance of maintaining the security and confidentiality of recorded
	information
	KA12. Procedures to maintain confidentiality of information
	KA13.The appropriate method for responding to requests for information
	KA14. The reporting procedures to followed before disclosing information to any
	outside party
Skills (S)	
	Writing Skills
	-
	The user/ individual on the job needs to know and understand how to:
	SA1. Construct simple sentences and express ideas clearly through written
	communication
	SA2. Fill up appropriate technical forms, process charts, activity logs in required
	format of the company
	SA3. Write simple letters, mails, etc
	SA4. Perform functional mathematical operations, including apply basic
	mathematical principles, such as numbers and space, and techniques such as
	estimation and approximation, for practical purposes
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA5. Read and understand manuals, health and safety instructions, memos, reports,
	job cards etc
A. Core Skills/	SA6. Read images, graphs, diagrams
Generic Skills	SA7. Understand the various coding systems as per company norms
Generic Skills	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA8. Express statements, opinions or information clearly so that others can hear
	and understand
	SA9. Respond appropriately to any queries
	SA10. Communicate with supervisor
	SA11. Communicate with upstream and downstream teams
	SA12. Work in a team and other behavioral skills required to support the small group
	activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
	SA13. Practice honesty with respect to company property and time
	SA14. Communicate with people in a form and manner and using language that is
	open and respectful
	SA15. Resolve any difficulties in relationships with colleagues , or get help from an
	appropriate person, in a way that preserves goodwill and trust
	SA16. Take responsibility for completing one's own work assignment
	SA17. Take initiative to enhance/learn skills in ones's area of work







### **To Carry Out Reporting And Documentation**

RSC/ N 5002	To Carry Out Reporting And Documentation			
	SA18. The capacity to learn from experience in a range of settings and scenarios and			
	the capacity to reflect on and analyse one's learning.			
	SA19. Is open to new ways of doing things			
	SA20. The capacity to envisage and articulate personal goals; to develop strategies			
	and take action to achieve them.			
	SA21. Avoid absenteeism			
	SA22. Act objectively , rather than impulsively or emotionally when faced with			
	difficult/stressful or emotional situations			
	SA23. Work in disciplined factory environment			
	SA24. Be punctual			
	S/12 II De parietadi			
D. Dunfanianal Chille	Decision Making			
B.Professional Skills	The user/individual on the job needs to know and understand how to:			
	SB1. Take appropriate decisions regarding processing steps in view of changing quality			
	and availability of raw materials and finished goods.			
	SB2. Handling of various types of mixing mills			
	SB3. Handle tools like mixing knife			
	SB4. Handle rubber compound			
	SB5. Handle chemicals			
	SB6. Handling of various types of material handling equipment like forklifts, trolleys			
	SB7. The capacity to apply technology, combining the physical and sensory skills			
	needed to operate equipment with the understanding of scientific and technological			
	principles needed to explore and adapt systems.			
	Plan and Organize			
	The user/individual on the job needs to know and understand how to:			
	SB8. seek clarification on problems from others			
	SB9. apply problem-solving approaches in different situations			
	SB10. refer anomalies to the line manager			
	Customer Centricity			
	NA NA			
	Problem Solving			
	The user/individual on the job needs to know and understand how to:			
	SB 11. Interpret quality for sheet			
	SB 12. Suggest improvements(if any) in process/product/materials based on results			
	and experience			
	Analytical Thinking			







#### **To Carry Out Reporting And Documentation**

The user/individual on the job needs to know and understand how to: SB13. Proper collection of waste material

SB14. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

#### **Critical Thinking**

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

SB15. Handle equipment/rubber sheet SB6. seek clarification on problems from others

SB16. apply problem-solving approaches in different situations

SB17. refer anomalies to the line manager

SB18. Identify any issues affecting the material, equipment or surroundings

SB19. Escalate issues that cannot be solved as per the troubleshooting/company manual







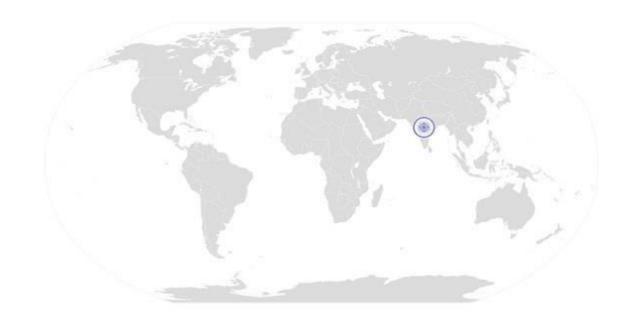
# **To Carry Out Reporting And Documentation**





# **NOS Version Control**

NOS Code	RSC / N 5002		
Credits(NSQF)	TBD	Version number	1
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Mixing	Next review date	29/12/17







# National Occupational Standard



# **Overview**

This unit is about carrying out quality checks







	National Occupational Standards  GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT  Transforming the skill
RSC/ N 5003	To Carry Out Quality Checks  MINISTRY OF SKILL DEVELOPMENT  & ENTREPRENEURSHIP
Unit Code	RSC / N 5003
Unit Title (Task)	To carry out quality checks
Description	This unit is about carrying out quality control activities
Scope	This unit/task covers the following:
	Carrying out quality checks to identify problems
	Take corrective actions
	Reporting the results
Performance Crite	ria (PC) w.r.t. the Scope
Element	Performance Criteria
	To be competent, the user/individual on the job must be able to:
Inspection	PC1. Ensure that total range of checks are regularly and consistently performed
шэрссион	PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as
	required
	PC3. Identify non-conformities to quality assurance standards
	PC4. Identify potential causes of non-conformities to quality assurance standards
Analysis	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
	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
D	PC12. Record of results of action taken
Reporting	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 Un	The state of the s
	The user/individual on the job needs to know and understand:
B. Technical	KB1. The importance of quality control procedures
Knowledge	KB2. Relevance and importance of activities and how they contribute to the

achievement of the quality objectives,







#### **To Carry Out Quality Checks**

RSC/ N 5003	To Carry Out Quality Checks
	KB3. Proper procedure for selecting the material/product and performing quality
	checks without affecting the material
	KB4. Availability of work instructions, as necessary,
	KB5. Characteristics of the product/material
	KB6. Use of suitable equipment
	KB7. Availability and use of monitoring and measuring devices,
	KB8. Requirements of records
	KB9. Importance of maintaining accurate up-to-date records
	KB10. The need to report within the stipulated time
	KB11. Implications of inaccurate measuring and testing instruments and equipment
	KB12. The cost of non-conformance to quality standards
	KB13. Implications (impact on internal/external customers) of defective products,
	materials or components
Skills (S)	
	Writing Skills
	The user/ individual on the job needs to know and understand how to:
	SA1. Construct simple sentences and express ideas clearly through written
	communication
	SA2. Fill up appropriate technical forms, process charts, activity logs in required
	format of the company
	SA3. Write simple letters, mails, etc
	SA4. Perform functional mathematical operations, including apply basic
	mathematical principles, such as numbers and space, and techniques such as
	estimation and approximation, for practical purposes
	Reading Skills
	The user/individual on the job needs to know and understand how to:
A. Core Skills/	SA5. Read and understand manuals, health and safety instructions, memos, reports,
Generic Skills	job cards etc
	SA6. Read images, graphs, diagrams
	SA7. Understand the various coding systems as per company norms
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA8. Express statements, opinions or information clearly so that others can hear
	and understand
	SA9. Respond appropriately to any queries
	SA10. Communicate with supervisor
	SA11. Communicate with upstream and downstream teams
	SA12. Work in a team and other behavioral skills required to support the small group
	activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
	SA13. Practice honesty with respect to company property and time
	SA14. Communicate with people in a form and manner and using language that is
	5.12 55 Standarde With people in a form and mainer and asing language that is







#### **To Carry Out Quality Checks**

RSC/ N 5003	To Carry Out Quality Checks	& ENTREPRENEURSHIP					
	open and respectful						
	SA15. Resolve any difficulties in relationships wi	ith colleagues , or get help from an					
	appropriate person, in a way that preserve	es goodwill and trust					
	SA16. Take responsibility for completing one's or	wn work assignment					
	SA17. Take initiative to enhance/learn skills in or	nes's area of work					
	SA18. The capacity to learn from experience in a	range of settings and scenarios and					
	the capacity to reflect on and analyse one	's learning.					
	SA19. Is open to new ways of doing things	nings					
	SA20. The capacity to envisage and articulate pe	_					
	and take action to achieve them.						
	SA21. Avoid absenteeism						
	SA22. Act objectively , rather than impulsively o	r emotionally when faced with					
	difficult/stressful or emotional situations	·					
	SA23. Work in disciplined factory environment						
	SA24. Be punctual						
	Decision Making						
B.Professional Skills							
	The user/individual on the job needs to know and	l understand how to:					
	SB1. Take appropriate decisions regarding process	sing steps in view of changing quality					
	and availability of raw materials and finished good						
	SB2. Handling of various types of mixing mills	N del					
	SB3. Handle tools like mixing knife						
	SB4. Handle rubber compound						
	SB5. Handle chemicals						
	SB6. Handling of various types of material handling	ng equinment like forklifts trolleys					
	SB7. The capacity to apply technology, combining	•					
	needed to operate equipment with the understar						
	principles needed to explore and adapt systems.	iding of scientific and technological					
	Plan and Organize						
	Figure and Organize						
	The user/individual on the job needs to know and	Lunderstand how to:					
	SB8. seek clarification on problems from others	anderstand new te.					
	SB9. apply problem-solving approaches in differen	nt situations					
	SB10. refer anomalies to the line manager	The Stead Horis					
	SEED. Ferei anomalies to the line manager						
	Customer Centricity						
	NA						
	Problem Solving						
	The user/individual on the job needs to know and	understand how to:					
	SB 11. Interpret quality for sheet						







#### **To Carry Out Quality Checks**

SB 12 . Suggest improvements(if any) in process/product/materials based on results
and experience
Analysis of Thinking
Analytical Thinking

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

SB13. Proper collection of waste material

SB14. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

#### **Critical Thinking**

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

SB15. Handle equipment/rubber sheet SB6. seek clarification on problems from others

SB16. apply problem-solving approaches in different situations

SB17. refer anomalies to the line manager

SB18. Identify any issues affecting the material, equipment or surroundings

SB19. Escalate issues that cannot be solved as per the troubleshooting/company manual







## **NOS Version Control**

NOS Code	RSC / N 5003			
Credits(NSQF)	TBD	Version number	1	
Industry	Rubber Manufacturing	Drafted on	20/03/13	
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15	
Occupation	Mixing	Next review date	29/12/17	

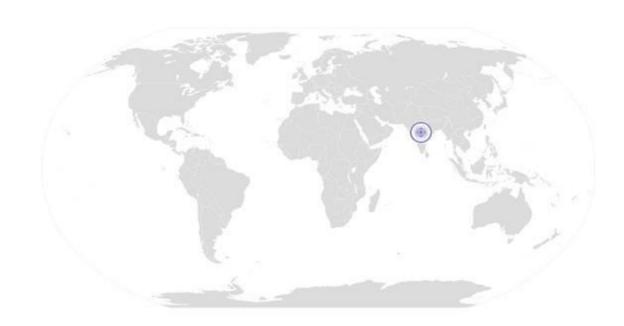








# National Occupational Standard



Overview

## **Overview**

This unit is about problem identification and escalation







### To Carry Out Problem Identification And Escalation

	& ENTREPRENEURSHIP
Unit Code	RSC / N 5004
Unit Title (Task)	To carry out problem identification and escalation
Description	This unit is about problem identification and escalation
Scope	This unit/task covers the following:  • Identify problems across:
	- Raw materials - Compounds - Product - Equipment - Others
	<ul> <li>Identify solutions to problems</li> <li>Take corrective action</li> <li>Escalation of unresolved identified problems</li> </ul>

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

Element	Performance Criteria
Problem Identification	To be competent, the user/individual on the job must be able to:  PC1. Identify defects/indicators of problems PC2. Identify any wrong practices that may lead to problems PC3. Identify practices that may impact the final product quality PC4. Identify if the problem has occurred before PC5. Identify other operations that might be impacted by the problem PC6. Ensure that no delays are caused as a result of failure to escalate problems
Necessary Action	PC7. Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required)  PC8. Consider possible reasons for identification of problems  PC9. Consider applicable corrections and formulate corrective action  PC10. Formulate action in a timely manner  PC11. Communicate problem/remedial action to appropriate parties  PC12. Take corrective action in a timely manner  PC13. Take corrective action for problems identified according to the company procedures  PC14. Report/document problem and corrective action in an appropriate manner  PC15. Monitor corrective action  PC16. Evaluate implementation of corrective action taken to determine if the



## National Occupational Standards To Carry Out Problem Identification And Escalation





	MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP
	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
Knowledge and Unders	standing (K)
B. Technical Knowledge	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  KB7. Measures and steps that have been taken to address the previous problems  KB8. Possible solutions for various problems  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/ Generic Skills	Writing Skills  The user/ individual on the job needs to know and understand how to:  SA1. Construct simple sentences and express ideas clearly through written communication  SA2. Fill up appropriate technical forms, process charts, activity logs in required format of the company  SA3. Write simple letters, mails, etc  SA4. Perform functional mathematical operations, including apply basic
	mathematical principles, such as numbers and space, and techniques such as



## NOS National Occupational Standards





#### To Carry Out Problem Identification And Escalation

estimation and approximation, for practical purposes

#### **Reading Skills**

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

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

#### **Oral Communication (Listening and Speaking skills)**

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

- SA8. Express statements, opinions or information clearly so that others can hear and understand
- SA9. Respond appropriately to any queries
- SA10. Communicate with supervisor
- SA11. Communicate with upstream and downstream teams
- SA12. Work in a team and other behavioral skills required to support the small group activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
- SA13. Practice honesty with respect to company property and time
- SA14. Communicate with people in a form and manner and using language that is open and respectful
- SA15. Resolve any difficulties in relationships with colleagues , or get help from an appropriate person, in a way that preserves goodwill and trust
- SA16. Take responsibility for completing one's own work assignment
- SA17. Take initiative to enhance/learn skills in ones's area of work
- SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning.
- SA19. Is open to new ways of doing things
- SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them.
- SA21. Avoid absenteeism
- SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations
- SA23. Work in disciplined factory environment
- SA24. Be punctual

#### **Decision Making**



#### **To Carry Out Problem Identification And Escalation**





#### **B.Professional Skills**

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

- SB1. Take appropriate decisions regarding processing steps in view of changing quality and availability of raw materials and finished goods.
- SB2. Handling of various types of mixing mills
- SB3. Handle tools like mixing knife
- SB4. Handle rubber compound
- SB5. Handle chemicals
- SB6. Handling of various types of material handling equipment like forklifts, trolleys
- SB7. The capacity to apply technology, combining the physical and sensory skills needed to operate equipment with the understanding of scientific and technological principles needed to explore and adapt systems.

#### **Plan and Organize**

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

- SB8. seek clarification on problems from others
- SB9. apply problem-solving approaches in different situations
- SB10. refer anomalies to the line manager

#### **Customer Centricity**

NA

#### **Problem Solving**

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

- SB 11. Interpret quality for sheet
- SB 12 . Suggest improvements(if any) in process/product/materials based on results and experience

#### **Analytical Thinking**

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

- SB13. Proper collection of waste material
- SB14. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

#### **Critical Thinking**

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

- SB15. Handle equipment/rubber sheet SB6. seek clarification on problems from others
- SB16. apply problem-solving approaches in different situations
- SB17. refer anomalies to the line manager
- SB18. Identify any issues affecting the material, equipment or surroundings
- SB19. Escalate issues that cannot be solved as per the troubleshooting/company manual



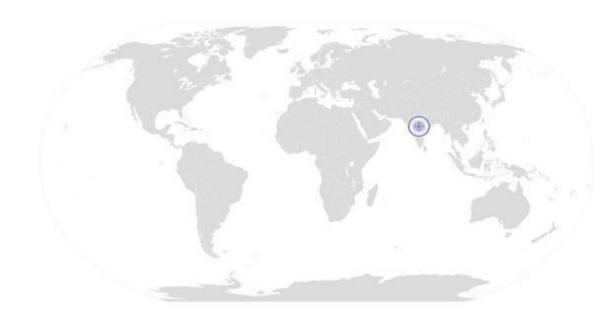






## **NOS Version Control**

NOS Code	RSC / N 5004			
Credits(NSQF)	TBD	Version number	1	
Industry	Rubber Manufacturing	Drafted on	20/03/13	
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15	
Occupation	Mixing	Next review date	29/12/17	



#### **CRITERIA FOR ASSESSMENT OF TRAINEES**

Job Role: Mill Operator

**Qualification Pack Code:** RSC/ Q 0101

Sector Skill Council: Rubber Skill Development Council

#### **Guidelines for Assessment**

- 1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC
- 2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC
- 3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)
- 4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria
- 5. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS
- 6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

Assessment Strategy		Marks Allocation		
NOS	Performance Criteria	Tota I	Theor y	Practica I
	PC1. Ensure functioning of safety features of mixing mill (e.g. safety pad, safety bar) and other accessories	4	4	0
	PC2. Ensure that the mixing mill is clean	4	4	0
1. RSC/ N0101 (Prepare mixing mill and accessories)	PC3. Set parameters for the equipment (mixing cycle time, roll temperature and nip gap) , as per company's SOP	14	4	10
	PC4. Keep all accessories (like cooling water, hydraulic system, temperature control unit (TCU), lubrication system) and stock blender (if available) ready	4	4	0
	PC5. Keep all hand tools like mixing knife, cooling rack etc. ready	3	3	0
	PC6. Ensure availability of pre-weighed, approved rubber and other ingredients to be fed as per recipe and batch size	9	4	5
	PC7. Ensure that raw material to be fed is approved by laboratory as per SOP	8	3	5
	PC8. Match the batch code of each raw material with the batch code on the job schedule given by the planning department	9	3	6

	PC9. Ensure that all raw materials have been assembled/organized (in correct sequence, as per SOP) to be fed into mixing mill	9	3	6
	PC10. Ensure housekeeping and safety in the Mixing mill area	3	3	0
	PC11. Ensure that electrical devices that may be exposed to carbon black dust are sealed.	3	3	0
	PC12.Periodically blow the electrical devices with clean/dry compressed air.	3	3	0
	PC13. Ensure that the exhaust systems are used to maintain the concentration levels of various particulate matters within limits as per SOP	9	3	6
	PC14. Adhere to all safety norms (like wearing protective gloves, shoes, Safety Glasses, etc.)	9	3	6
	PC15. Comply with health, safety, environment guidelines, regul ations etc in accordance with international/national standards or organizational SOP	9	3	6
		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	0	0	0
	PC3. Ensure that identified & approved materials are used.	7	3	4
	PC4. Ensure that the sequence in shift is based on raw material availability to maximize output	7	3	4
2. RSC/ N0102 (Mix raw	PC5. Add rubber and other ingredients in the mixing mill in the specified quantity and sequence as per company's SOP	7	3	4
material in mixing mill to prepare rubber compound	PC6. Receive mixed batch dumped from intermix on the mill and form sheet.  a. Allow the entire compound to pass through the nip gap of the rolls.  b. Form a band on the front roll.  c. Cut the compound and re-roll for at least three times.  d. Pass the compound over the blender bar for better cooling and blending.  e. Let out compound from mill in continuous sheet form and pass through cooling festoon and wig wag for stacking.	25	10	15
	PC7. Check and adjust cooling water flow rate as per SOP	0	0	0
	PC8. Ensure proper rolling bank while mixing	8	3	5

	PC9. Use stock blender, if available for better dispersion	3	3	0
	PC10.Control mixing process and completion as per SOP (temperature or time or energy as programmed / specified)	5	2	3
	PC11. Identify the batch as per SOP	5	2	3
	PC12. Ensure maturation time for Master batch and	0	0	0
	Final batch before next usage	U		0
	PC13. Ensure housekeeping and safety in the Mixing mill area	3	3	0
	PC14. Ensure that the electrical devices that may be exposed to carbon black dust are sealed.	3	3	0
	PC15.Periodically blow the electrical devices with clean/dry compressed air.	3	3	0
	PC16. Ensure that the exhaust systems are used to maintain the concentration levels of various particulate matters remain within limits as per SOP.	7	3	4
	PC17.Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses etc)	7	3	4
	PC18.Comply with health, safety, environment guidelines, regulations etc in accordance with international/national standards or organizational SOP.	7	3	4
		100	50	50
	PC1. Sheet off the compound followed by cooling	5	5	0
	PC2. Ensure that no compound has been left inside in roller guides, stock blender and mill tray	5	5	0
	PC3. Handover the equipment to the next operator in clean and good condition	4	4	0
	PC4. Dispose waste material in safe manner as per company's SOP	4	4	0
3. RSC/ N0103 ( <u>Undertake post</u> <u>mixing mill</u> <u>activities</u> )	PC5. 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)	25	5	20
	PC6. Send sample of specified compound/ batch in specified form to lab for testing	4	4	0
	PC7. Send the remaining material to the designated storage area	5	0	5
	PC8. Ensure that the electrical devices that may be exposed to carbon black dust are sealed.	4	4	0
	PC9. Periodically blow the electrical devices with clean/dry compressed air.	4	4	0

	PC10. Ensure that the exhaust systems are used to maintain the concentration levels of various particulate matters remain within limits.	10	5	5
	PC11.Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses etc)	15	5	10
	PC12.Comply with health, safety, environment guidelines, regulations etc in accordance with international/national standards or organizational SOP	15	5	10
		400		50
	PC1. Inspect the area while taking into account various surfaces	3	50 3	50 0
	PC2. Identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain	3	3	0
	PC3. Ensure that the cleaning equipment is in proper working condition	3	3	0
	PC4. Select the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person	3	3	0
	PC5. Plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces	3	3	0
	PC6. Inform the affected people about the cleaning activity	0	0	0
4. RSC/ N5001 (To carry out	PC7. Display the appropriate signage for the work being conducted	10	5	5
housekeeping)	PC8. Ensure that there is adequate ventilation for the work being carried out	3	3	0
	PC9. Wear the personal protective equipment required for the cleaning method and materials being used	3	3	0
	PC10. Use the correct cleaning method for the work area, type of soiling and surface	3	3	0
	PC11. Carry out cleaning activity without disturbing others	5	0	5
	PC12. Deal with accidental damage, if any, caused while carrying out the work	10	0	10
	PC13. Report to the appropriate person any difficulties in carrying out your work	3	3	0
	PC14. Identify and report to the appropriate person any additional cleaning required that is outside one's responsibility or skill	3	3	0

	PC15. Ensure that there is no oily substance on the floor to avoid slippage	8	3	5
	PC16. Ensure that no scrap material is lying around	8	3	5
	PC17. Maintain and store housekeeping equipment and supplies	8	3	5
	PC18. Follow workplace procedures to deal with any accidental damage caused during the cleaning process	3	3	0
	PC19. Ensure that, on completion of the work, the area is left clean and dry and meets requirements	3	3	0
	PC20. Return the equipment, materials and personal protective equipment that were used to the right places making sure they are clean, safe and securely stored	3	3	0
	PC21. Dispose the waste garnered from the activity in an appropriate manner	3	3	0
	PC22. Dispose of used and un-used solutions according to manufacturer's instructions, and clean the equipment thoroughly	3	3	0
	PC23.Maintain schedules and records for housekeeping duty	3	3	0
	PC24. Replenish any necessary supplies or consumables	3	3	0
		100	65	35
	PC1. Report data/problems/incidents as applicable in a timely manner	20	10	10
	PC2. Report to the appropriate authority as laid down by the company	15	10	5
	PC3. Follow reporting procedures as prescribed by the company	15	10	5
	PC4. Identify documentation to be completed relating to one's role	5	5	0
F DCC/ NEOO3 /T-	PC5. Record details accurately an appropriate format	10	10	0
5. RSC/ N5002 (To carry out reporting and	PC6. Complete all documentation within stipulated time according to companyprocedure	15	10	5
documentation)	PC7. Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly	5	5	0
	PC8. Make sure documents are available to all appropriate authorities to inspect	0	0	0
	PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures	10	10	0
	PC10. Inform the appropriate authority of requests for information received	5	5	0

		100	75	25
	PC1. Ensure that total range of checks are regularly and consistently performed	10	5	5
	PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as required	10	5	5
	PC3. Identify non-conformities to quality assurance standards	5	5	0
	PC4. Identify potential causes of non-conformities to quality assurance standards	10	5	5
	PC5. Identify impact on final product due to non-conformance to company standards	10	5	5
	PC6. Evaluating the need for action to ensure that problems do not recur	5	0	5
6. RSC/ N5003 (To carry out quality	PC7. Suggest corrective action to address problem	10	5	5
checks)	PC8. Review effectiveness of corrective action	5	0	5
checks)	PC9. Interpret the results of the quality check correctly	5	5	0
	PC10. Take up results of the findings with QC in charge/appropriate authority.	5	5	0
	PC11. Take up the results of the findings within stipulated time	5	5	0
	PC12. Record of results of action taken	5	5	0
	PC13. Record adjustments not covered by established procedures for future reference	5	5	0
	PC14. Review effectiveness of action taken	5	5	0
	PC15. Follow reporting procedures where the cause of defect cannot be identified	5	5	0
		100	65	35
	PC1. Identify defects/indicators of problems	6	3	3
	PC2. Identify any wrong practices that may lead to problems	6	3	3
	PC3. Identify practices that may impact the final product quality	6	3	3
	PC4. Identify if the problem has occurred before	0	0	0
7. RSC/ N5004 (To carry out problem identification and escalation)	PC5. Identify other operations that might be impacted by the problem	6	3	3
	PC6. Ensure that no delays are caused as a result of failure to escalate problems	3	3	0
	PC7. Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required)	3	3	0
	PC8. Consider possible reasons for identification of problems	6	3	3

Tailure to escalate problems	100	65	35
PC24. Ensure that no delays are caused as a result of failure to escalate problems	3	3	0
PC23. Escalate the problem in an appropriate manner	2	2	0
PC22. Escalate the problem within stipulated time	2	2	0
PC21. Escalate problem as per laid down escalation matrix	2	2	0
PC20. Ensure that no delays are caused as a result of failure to take necessary action	6	3	3
PC19. Take corrective action for problems identified according to the company procedures	5	2	3
PC18. Ensure that correct solution is identified to an identified problem	5	2	3
PC17. Ensure that corrective action selected is viable and practical	3	3	0
PC16. Evaluate implementation of corrective action taken to determine if the problem has been resolved	3	3	0
PC15. Monitor corrective action	2	2	0
PC14. Report/document problem and corrective action in an appropriate manner	5	5	0
PC13. Take corrective action for problems identified according to the company procedures	6	3	3
PC12. Take corrective action in a timely manner	5	3	2
PC11. Communicate problem/remedial action to appr opriate parties	3	3	0
PC10. Formulate action in a timely manner	6	3	3
PC9. Consider applicable corrections and formulate corrective action		3	3