





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

E-mail: info@rsdcindia.in







Contents

Ι.	introduction and contacts	т
2.	Qualifications Pack	2
3.	OS Units	.2

Introduction

Qualifications Pack-Injection Moulding Operator

SECTOR: RUBBER INDUSTRY

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

OCCUPATION: Moulding/Curing

REFERENCE ID: RSC/ Q 0207

ALIGNED TO: NCO-2004/NIL

Brief Job Description: The Injection moulding operator is responsible for feeding the rubber compound/strip into the Injection moulding machine for making rubber parts

Personal Attributes: This job requires the individual to be result oriented. At all times he should strive to achieve highest quality standards. The operator is expected to be able to work in a factory environment.







Qualifications Pack Code	RSC/ Q 0207		
Job Role	Injec	tion Moulding Operat	or
Credits(NSQF)	TBD	Version number	1.0
Sector	Rubber	Drafted on	20/03/13
Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Moulding/Curing	Next review date	29/12/17
NSQC Clearnace on	18/06/2015		

Job Role	Injection Moulding Operator	
Role Description	The Injection moulding operator is responsible for feeding the rubber compound/strip into the Injection moulding machine for making rubber parts	
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	Worked as a semi-skilled helper for 3-6 months in the same	
	role	
	Compulsory:	
	1. RSC/ N0701 (Prepare injection moulding machine)	
	2. RSC/ N0702 (Perform injection moulding operation)	
	3. RSC/ N0703 (<u>Undertake post moulding activities</u>)	
	4. RSC/ N5001 (To carry out housekeeping)	
Applicable National Occupational	5. RSC/ N5002 (To carry out reporting and documentation)	
Standards (NOS)	6. RSC/ N5003 (To carry out quality checks)	
	7. RSC/ N5004 (To carry out problem identification and	
	<u>escalation</u>)	
	Optional:	
	8. NA	
Performance Criteria	As described in the relevant OS units	







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









National Occupational Standard



Overview

This unit is about preparing injection moulding machine and other accessories for injection moulding operation to make rubber products



NOS National Occupational Standards





Preparing Injection Moulding Machine

Unit Code	RSC/N 0701		
Unit Title	Dranara injection moulding machine		
(Task)	Prepare injection moulding machine		
Description	This unit is about preparing equipment for injection moulding operation		
Scope	 This unit/task covers the following: Ensuring housekeeping and safety in the moulding area Preparing the injection moulding machine Setting parameters on the injection moulding machine Loading the mould 		
Performance Criteria (F	PC) w.r.t. the Scope		
Element	Performance Criteria		
Equipment readiness	PC1. Ensure that injection moulding machine is clean and fit for use as per SOP PC2. Ensure upstream feeding device is loaded and ready for operation PC3. Ensure emergency safety feature of machine is working PC4. Select the correct mould and distribution system (sprue, drop, runners & gates) PC5. Ensure that the mould is clean PC6. Ensure that barrel & distribution system (sprue, drop, runners & gates) are clean PC7. Assemble the mould & distribution system properly on the platen machine PC8. Load the mould and distribution system on the machine press for preheating PC9. Set parameters for the injection moulding equipment (injection cycle time, temperature and clamping pressure), as per company's SOP PC10. Keep all the accessories like cleaning brush, mould release lever (made of brass or aluminum flat), ready including mould release agent PC11. Apply the mould release agent appropriately as per SOP PC12. Ensure that identified rubber compound strip or granule is ready for feeding into the Injection Moulding machine for the entire shift		
Raw material appropriateness	PC13. Ensure that rubber compound strip or granule to be fed is approved by laboratory PC14. Match the batch code of each rubber compound with the batch code on the job schedule given by the planning department PC15. Ensure desired shape of rubber compound strip or granule for continuous feeding to Injection moulding machine. PC16. Ensure, by visual inspection, that rubber compound strip or granule is of desired quality (free of contamination/ bloom)		









PC17. Ensure housekeeping/safety in the moulding area as per SOP PC18. Use lifting equipment such as forklift / Trolleys while lifting heavy materials such as moulds and distribution systems to avoid physical injury. PC19. Ensure mould lifting/ ejection/ slide mechanism of the press are properly **Health & Safety** functioning PC20. Ensure that signage indicating hot surfaces is put up wherever necessary PC21. Adhere to all safety norms (eg wearing protective gloves, shoes, safety glasses) PC22. Comply with health, safety, environment guidelines, regulations 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. Different types of Injection moulding machine operation. KA2. Different types of mould & distribution systems KA3. Implications of poorly prepared equipment, power failure KA4. Importance of identifying non-conforming material and storage of the same KA5. Risk and impact of not following defined procedures/work instructions KA6. Escalation matrix for reporting identified problems A. Organizational KA7. Types of documentation in organization and importance of the same **Context** KA8. Records to be maintained and implications of non-maintenance of the same (Knowledge of the KA9. Importance of housekeeping (knowledge of 3S & 5S) company / KA10. Health, Safety and Environment guidelines, legislation and regulations as organization and applicable its processes) KA11. Personal protection (Which protective equipment to be used and how) KA12. Impact of poor practices on health, safety and environment KA13. Potential hazards and actions to minimize the same KA14. Escalation matrix and escalation procedure for reporting hazards KA15. Importance of FIFO, good shop floor practices (e.g. 5S) KA16. The usage of different type of fire extinguisher KA17. Impact of various practices on cost, quality, productivity, delivery and safety KA18. Handover/ Takeover the equipment/ work area as per company's SOP The user/individual on the job needs to know and understand: KB1. Injection moulding machine and operation (including typical process followed for different batches) **B.** Technical KB2. Possible causes of common moulding problems & their remedies Knowledge KB3. Health hazards of process and compounding ingredients KB4. Different heating system (steam/Electrical/Thermic fluid) including correlation of steam pressure and temperature) KB5. Operation of PLC or touch screen computer consoles KB6. Checks to be done on the flash to minimize leakage KB7. Use of cleaner batches









Preparing Injection Moulding Machine

	& ENTREPRENEURSHIP
	KB8. Influence of parameters (e.g. time, temperature, pressure) on Injection moulding operation KB9. Use of different mould release agents KB10. Type of defects/problems leading to rejections, indicators, reasons and possible solutions. KB11. Cleanliness and safety requirements for commencing a injection moulding operation KB12. Units of measurement KB13. Response to emergencies e.g. Power failures, fire and system failures and manual intervention to avoid disaster KB14. Appropriate batch size with respect to appropriate machinery KB15. Use of weighing scale, time, temperature & pressure measurement
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 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) Integrity The user/individual on the job needs to know and understand how to:









RSC / N 0701	Preparing Injection Moulding Machine	GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP	Transforming the skill lands
	SA13. Practice honesty with respect to company pro	perty and time	
	SA14. Communicate with people in a form and manr open and respectful	ner and using langua	ige that is
	SA15. Resolve any difficulties in relationships with c	olleagues , or get he	lp from an
	appropriate person, in a way that preserves go	oodwill and trust	
	Motivation		
	The user/individual on the job needs to know and u	nderstand how to:	
	SA16. Take responsibility for completing one's own v	work assignment	
	SA17. Take initiative to enhance/learn skills in ones's	area of work	
	SA18. The capacity to learn from experience in a ran	ge of settings and so	cenarios and
	the capacity to reflect on and analyse one's lea	arning.	
	SA19. Is open to new ways of doing things		
	SA20. The capacity to envisage and articulate person	nal goals; to develop	strategies
	and take action to achieve them.		
	Reliability		
	The user/individual on the job needs to know and u	nderstand how to:	
	SA21. Avoid absenteeism		
	SA22. Act objectively , rather than impulsively or em	notionally when face	ed with
	difficult/stressful or emotional situations	9,	
	SA23. Work in disciplined factory environment	A .	
	SA24. Be punctual	Flance	
	Decision Making		
B.Professional Skills	The user/individual on the job needs to know and und	derstand how to:	
	Handle injection moulding machine		
	Assemble/load mould on the plate	- /	
	Handle rubber compound		
	Handle chemicals		
	The capacity to apply technology, combining the phy	sical and sensory sl	cills needed
	to operate equipment with the understanding of sci	entific and technolo	gical
	principles needed to explore and adapt systems.		
	Plan and Organize		
	The user/individual on the job needs to know and und	derstand how to:	
	SB2. seek clarification on problems from others		
	SB3. apply problem-solving approaches in different sit	tuations	
	SB4. refer anomalies to the line manager		
	Customer Centricity		
	NA		





सत्यमेव जयते GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURISHIP



Preparing Injection Moulding Machine

		_	
Prob	em	So	lving
	•		

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

SB 5. Interpret quality for sheet

SB 6. 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:

SB7. Proper collection of waste material

SB8. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

Diagnose common problems in the machine based on visual inspection, sound , temperature etc

Suggest improvements(if any) in process based on experience

Critical Thinking

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

SB9. Handle equipment/rubber sheet SB6. seek clarification on problems from others

SB10. apply problem-solving approaches in different situations

SB11. refer anomalies to the line manager



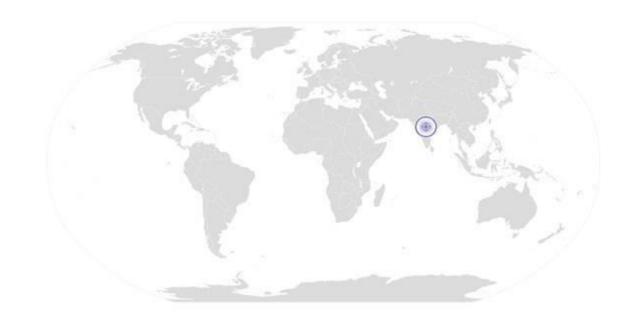






NOS Version Control

NOS Code	RSC / N 0701		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Moulding/Curing	Next review date	29/12/17



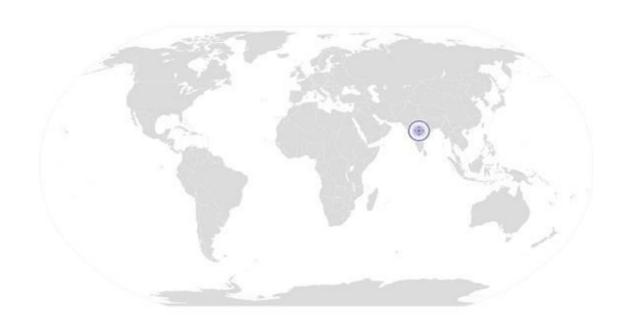








National Occupational Standard



Overview

This unit is about performing injection moulding operation to make rubber products



NOS National Occupational Standards





Perform Injection Moulding Operation

K3C / N 0702	MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP		
Unit Code	RSC / N 0702		
Unit Title (Task)	Perform injection moulding operation		
Description	This unit is about performing injection moulding operation		
Scope	This unit/task covers the following: Ensuring housekeeping and safety in the moulding area Operate the machine Feed rubber compound and other materials into the machine Does not cover blown/expanded products		
Performance Criteria	(PC) w.r.t. the Scope		
Element	Performance Criteria		
Raw material appropriateness	To be competent, the user/individual on the job must be able to: PC1. Handle the rubber compound to avoid contamination		
Operations	PC2. Load the material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash PC3. Check the identified feed strip for dimension uniformity/identified granules PC4. Make the rubber compound strip or granule ready for feeding into the machine PC5. Start the machine and feeding simultaneously PC6. Ensure that moulding pressure and temperature is maintained during the curing cycle PC7. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning PC8. Cure the product as per SOP PC9. Remove the cured product from the mould as per SOP.		
PC10. Ensure Housekeeping and Safety in mixing area PC11. Adhere to all other safety norms (like wearing shoes) PC12. Comply with health, safety, environment guidelines, regulations in adwith 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. Different types of batches that are run in plant KA2. Injection moulding process to get minimum rejection KA3. Curing process and effect of the same KA4. Types of different heating processes (steam, electrical, thermic fluid) KA5. Implications of poorly prepared material, power failure		



NOS National Occupational Standards





Perform Injection Moulding Operation

	& ENTREPRENEURSHIP
	KA6. Material disposal procedure, importance of appropriate disposal of material
	and implications of not following the material disposal procedure
	KA7. Quality and damage checks to be done and importance of the same
	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 (knowledge of 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
	KA21. Himpact of various practices of cost, quality, productivity, delivery and safety KA22. Handover/ Takeover the equipment/ work area as per company's SOP
	KAZZ. Halidovely Takeovel the equipment, work area as per company's sor
B. Technical Knowledge	 The user/individual on the job needs to know and understand KB1. Possible causes of common moulding problems & their remedies KB2. Cleanliness and safety requirements for operating a Injection moulding machine KB3. Influence of parameters (e.g. time, temperature, pressure) on injection moulding operation KB4. Injection moulding operation to get minimum rejection KB5. Operation of moulding machine (Equipment working, possible setting levels, typical process followed for different batches) KB6. Different types of Injection moulding machine, distributions systems and moulds. KB7. Operation of multiple presses with common power pack and importance of sequencing KB8. Specific pressure required for different types of moulding KB9. Influence of time and temperature on curing of thick products KB10. State of curing – undercuring and overcuring KB11. Effect of improper processing on properties of rubber compound & product KB12. Units of measurement KB13. Response to emergencies e.g. Power failures, fire and system failures and
	manual intervention to avoid disaster
	KB14. Appropriate batch size with respect to appropriate machinery









Perform Injection Moulding Operation

	KB15. Use of weighing scale, time, temperature & pressure measurement		
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		
	SA6. Read images, graphs, diagrams		
SA7. Understand the various coding systems as per company norms			
	Oral Communication (Listening and Speaking skills)		
A. Core Skills/	The user/individual on the job needs to know and understand how to:		
Generic Skills	SA8. Express statements, opinions or information clearly so that others can hear and understand		
	SA9. Respond appropriately to any queries		
	SA10. Communicate with supervisor		
	SA11. Communicate with upstream and downstream teams		
	SA12. Work in a team and other behavioral skills required to support the small group		
	activities (Quality Circle, Cross Functional Team, Suggestion Scheme)		
	Integrity		
	The user/individual on the job needs to know and understand how to:		
	SA13. Practice honesty with respect to company property and time		
	SA14. Communicate with people in a form and manner and using language that is		
	open and respectful		
	SA15. Resolve any difficulties in relationships with colleagues, or get help from an		
	appropriate person, in a way that preserves goodwill and trust		
	Motivation		
	The user/individual on the job needs to know and understand how to:		
	SA16. Take responsibility for completing one's own work assignment		
	SA17. Take initiative to enhance/learn skills in ones's area of work		
	SA18. The capacity to learn from experience in a range of settings and scenarios and		
	the capacity to reflect on and analyse one's learning.		









RSC / N 0702	Perform Injection Moulding Operation Residual of State o
	SA19. Is open to new ways of doing things
	SA20. The capacity to envisage and articulate personal goals; to develop strategies
	and take action to achieve them.
	Reliability
	The user/individual on the job needs to know and understand how to:
	SA21. Avoid absenteeism
	SA22. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA23. Work in disciplined factory environment
	SA24. Be punctual
	Decision Making
B.Professional Skills	The user/individual on the job needs to know and understand how to:
	Handle injection moulding machine
	Assemble/load mould on the plate
	Handle rubber compound
	Handle chemicals
	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:
	SB2. seek clarification on problems from others
	SB3. apply problem-solving approaches in different situations
	SB4. 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 5. Interpret quality for sheet
	SB 6. 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: SB7. Proper collection of waste material









Perform Injection Moulding Operation

SB8. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

Diagnose common problems in the machine based on visual inspection, sound, temperature etc

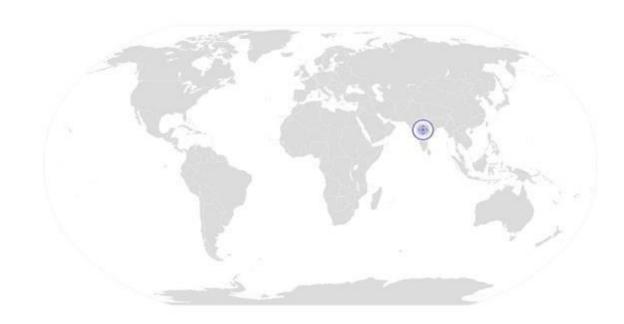
Suggest improvements(if any) in process based on experience

Critical Thinking

The user/individual on the job needs to know and understand how to: SB9. Handle equipment/rubber sheet SB6. seek clarification on problems from others

SB10. apply problem-solving approaches in different situations

SB11. refer anomalies to the line manager





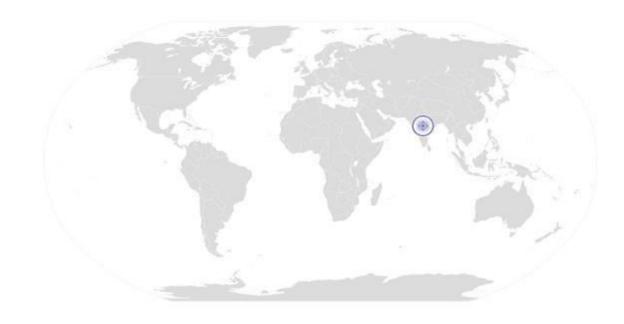






NOS Version Control

NOS Code	RSC / N 0702		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Moulding/Curing	Next review date	29/12/17



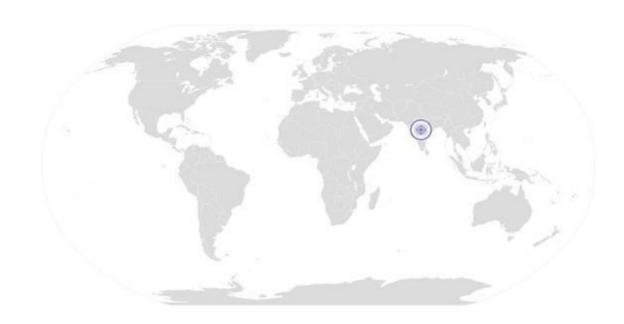








National Occupational Standard



Overview

This unit is about undertaking activities post injection moulding operation to make rubber products



National Occupational Standards





Undertake Post Moulding Activities

,			
Unit Code	RSC / N 0703		
Unit Title	Undertake post moulding activities		
(Task)	Ondertake post modium gathrides		
Description	This unit is about undertaking activities after injection moulding operation		
Scope	This unit/task covers the following:		
	Ensuring housekeeping and safety in the moulding area		
	Remove cured piece		
	Trim the piece to remove flash		
	Effect cleaning of compound feed mechanism, mould runner grooves, gating		
	points after completion of continuous injection cycle using the same compound		
	Form appropriate batches of the product		
	Mark the batch for proper identification for further processing		
	Send sample to lab for testing		

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

Element	Performance Criteria
Operation	 To be competent, the user/individual on the job must be able to PC1. Remove cured product properly as per SOP PC2. Remove the cured compound from the pot/ flow grooves and ensure clean mould for next cycle PC3. Trim the piece to remove flash in a manner that does not cause injury to the operator or the product PC4. Ensure finishing operation including surface treatment of the cured product if required as per SOP before sending to inspection/warehouse.
Material disposal	PC5. Dispose waste material in safe manner as per company's SOP
Batch Marking	PC6. 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)
Sampling	PC7. Send sample of specified compound/ batch in specified form to lab for testing PC8. Send the remaining material to the designated storage area
Health & Safety	PC9. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning PC10. Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses)



NOS National Occupational Standards





Undertake Post Moulding Activities

•	PC11. Comply with health, safety, environment guidelines, regulations in accordance			
	with international/national standards or organizational SOP			
Knowledge and Unders	standing (K)			
	The user/individual on the job needs to know and understand:			
	KA1. Implications of poorly prepared material, power failure			
	KA2. Significance of batch marking			
	KA3. Importance of identifying non-conforming product and storage of the same			
A. Organizational	KA4. Risk and impact of not following defined procedures/work instructions			
Context	KA5. Escalation matrix and procedure for reporting identified problems			
(Knowledge of the	KA6. Types of documentation in organization and importance of the same			
company /	KA7. Records to be maintained and implications of non-maintenance of the same			
organization and	KA8. Importance of housekeeping & good shop floor practice (knowledge of 3S & 5S)			
its processes)	KA9. Health, Safety and Environment guidelines, legislation and regulations as			
,	applicable			
	KA10. Personal protection(Which protective equipment to be used and how)			
	KA11. Potential hazards and actions to minimize the same			
	KA12.Impact of poor practices on health, safety and environment			
	KA13. Escalation matrix and procedure for reporting hazards			
	KA14. Handover/ Takeover the equipment/ work area as per company's SOP			
	The user/individual on the job needs to know and understand:			
	The state of the s			
	KB1. Mould fouling and remedial measures			
	KB2. Possible causes of common moulding problems & their remedies			
D. Taskuisal	KB3. Loading/unloading mechanisms and aids			
B. Technical	KB4. State of curing – undercuring and overcuring			
Knowledge	KB5. The process and importance of quality check, including visual, hardness and dimension check			
	KB6. Cleanliness and safety requirements for deflashing			
	KB7. Units of measurement			
	KB8. Coding systems for identification and traceability			
	KB9. Use of weighing scales, time, temperature & pressure measurement			
	KB10. Storage life of the compound			
	KB11. Ambient temperature and effect on compound			
	KBII. 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			
	SA3. Write simple letters, mails, etc			









Undertake Post Moulding Activities

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)

Integrity



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

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

Motivation

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

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

Reliability

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

- SA21. Avoid absenteeism
- SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations
- SA23. Work in disciplined factory environment
- SA24. Be punctual









Undertake Post Moulding Activities

Decision Making

B.Professional Skills

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

Handle injection moulding machine

Assemble/load mould on the plate

Handle rubber compound

Handle chemicals

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:

- SB2. seek clarification on problems from others
- SB3. apply problem-solving approaches in different situations
- SB4. 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 5. Interpret quality for sheet
- SB 6. 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:

- SB7. Proper collection of waste material
- SB8. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

Diagnose common problems in the machine based on visual inspection, sound , temperature etc

Suggest improvements(if any) in process based on experience

Critical Thinking

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

- SB9. Handle equipment/rubber sheet SB6. seek clarification on problems from others
- SB10. apply problem-solving approaches in different situations
- SB11. refer anomalies to the line manager



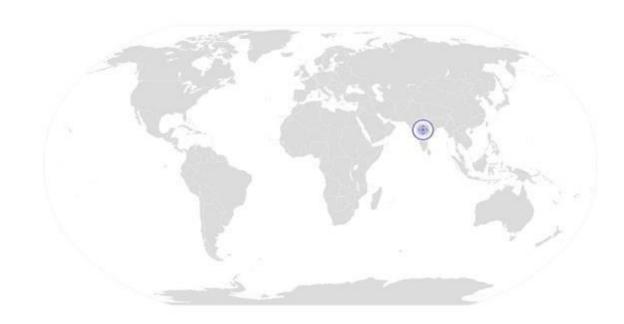






NOS Version Control

NOS Code	RSC / N 0703		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Moulding/Curing	Next review date	29/12/17



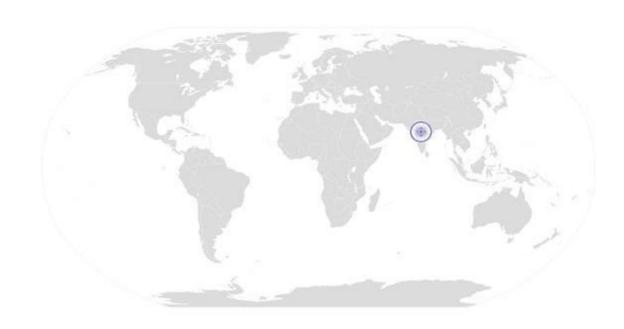








National Occupational Standard



Overview

This unit is about carrying out housekeeping



National Occupational Standards





To Carry Out Housekeeping

RSC / N 5001	TO Carry Out Housekeeping
Unit Code	RSC / N 5001
Unit Title	To compare house house house house
(Task)	To carry out housekeeping
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 (F	PC) w.r.t. the Scope
Element	Performance Criteria
Pre housekeeping activities	To be competent, the user/individual on the job must be able to: PC1. Inspect the area while taking into account various surfaces PC2. Identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain PC3. Ensure that the cleaning equipment is in proper working condition PC4. Select the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person PC5. Plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces PC6. Inform the affected people about the cleaning activity PC7. Display the appropriate signage for the work being conducted PC8. Ensure that there is adequate ventilation for the work being carried out PC9. Wear the personal protective equipment required for the cleaning method and materials being used
Operations	PC10. Use the correct cleaning method for the work area, type of soiling and surface PC11. Carry out cleaning activity without disturbing others PC12. Deal with accidental damage, if any, caused while carrying out the work PC13. Report to the appropriate person any difficulties in carrying out your work PC14. Identify and report to the appropriate person any additional cleaning required that is outside one's responsibility or skill
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 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









To Carry Out Housekeeping

RSC / N 5001	To Carry Out Housekeeping	MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP			
	used to the right places making sure they ar	e clean, safe and securely stored			
	PC21. Dispose the waste garnered from the activit	garnered from the activity in an appropriate manner			
		pose of used and un-used solutions according to manufacturer's			
	instructions, and clean the equipment thoro				
	mati detions, and clean the equipment thore	ctions, and clean the equipment thoroughly			
	PC23. Maintain schedules and records for houseke	eeping duty			
General	PC24. Replenish any necessary supplies or consum	nables			
Knowledge and Unders	standing (K)				
- The street go and on a cree	The user/individual on the job needs to know and	Lundorstand			
B. Technical Knowledge	KB1. The levels of hygiene required by workplace maintain them during your work KB2. How to inspect a work area to decide what of KB3. Methods and materials that used for cleaning KB4. The types of cleansing agents that are not to KB5. The correct method for cleaning equipment your work KB6. The importance of personal protective equipment equipment, tools, materials and chemicals to KB8. The correct sequence for cleaning the work KB9. The time taken by the treatment to work KB10. The importance of following manufacturer's KB11. The most appropriate place to carry out test done before applying treatments KB12. The importance of applying treatments ever KB13. Process of cleaning the surfaces without cat KB14. The method to check the treated surface and cleaning KB15. Procedures for reporting any unidentified so KB16. Procedures for disposing off waste KB17. Procedures for disposing off or storing person KB18. Escalation procedures for soils or stains that	cleaning it needs ng variety of surfaces to be mixed together and/or machinery used during the work area, cleaning used area sinstructions on cleaning agents to cleans and why this should be ally and the effect of not doing this using injury or damage d equipment on completion of completion of completion of completion protective equipment			
Skills (S)					
SKIIS (3)	Writing Skills				
	The user/ individual on the job needs to know and				
A. Core Skills/	SA1. Construct simple sentences and express ide	eas clearly through written			
Generic Skills	communication				
	SA2. Fill up appropriate technical forms, process	charts, activity logs in required			
	format of the company				
	SA3. Write simple letters, mails, etc				









To Carry Out Housekeeping

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)

Integrity



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

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

Motivation

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

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

Reliability

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

- SA21. Avoid absenteeism
- SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations
- SA23. Work in disciplined factory environment
- SA24. Be punctual









To Carry Out Housekeeping

B.Professional Skills

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

Handle injection moulding machine

Assemble/load mould on the plate

Handle rubber compound

Handle chemicals

Decision Making

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:

- SB2. seek clarification on problems from others
- SB3. apply problem-solving approaches in different situations
- SB4. 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 5. Interpret quality for sheet
- SB 6. 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:

- SB7. Proper collection of waste material
- SB8. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

Diagnose common problems in the machine based on visual inspection, sound, temperature etc

Suggest improvements(if any) in process based on experience

Critical Thinking

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

- SB9. Handle equipment/rubber sheet SB6. seek clarification on problems from others
- SB10. apply problem-solving approaches in different situations
- SB11. refer anomalies to the line manager









NOS Version Control

NOS Code	RSC / N 5001		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Moulding/Curing	Next review date	29/12/17



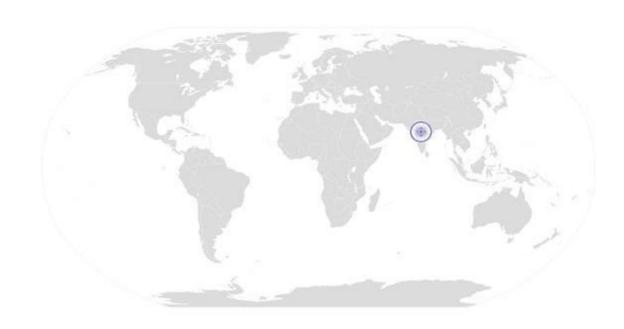








National Occupational Standard



Overview

This unit is about reporting and documentation



National Occupational Standards





To Carry Out Reporting And Documentation

Unit Code	RSC / N 5002
	NSC / N 3002
Unit Title (Task)	To carry out reporting and documentation
Description	This unit is about carrying out reporting and documentation
Scope	This unit/task covers the following: Reporting of data/problem/incidents etc Desumentation
	Documentation
	Information Security
Performance Criteria (F	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 Unders	tanding (K)
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. Different methods of recording information KB2. Various documents that need to be maintained KB3. Company procedure for filling/maintaining up the documents KB4. Procedures for reporting to the appropriate authority KB5. Procedures for recording damage, breakages etc KB6. Reporting incidents where standard operating procedures are not followed KB7. The importance of complete and accurate documentation KB8. How to maintain complete documentation accurately and within agreed









To Carry Out Reporting And Documentation

RSC / N 5002	To Carry Out Reporting And Documentation
	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 Comp Chille/	SA4. Perform functional mathematical operations, including apply basic
A. Core Skills/	mathematical principles, such as numbers and space, and techniques such as
Generic Skills	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)









RUBBER SKILL DEVELOPMENT COUNCIL RSC / N 5002	National Occupational Standards To Carry Out Reporting And Documentation	GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP	Transforming the		
	The user/individual on the job needs to know and underst	tand how to:	<u> </u>		
	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 team	IS			
	SA12. Work in a team and other behavioral skills required to support the small group activities (Quality Circle, Cross Functional Team, Suggestion Scheme)				
	Integrity				
	The user/individual on the job needs to know and understand how to:				
	SA13. Practice honesty with respect to company property	and time			
	SA14. Communicate with people in a form and manner and	d using language th	nat is		
	open and respectful				
	SA15. Resolve any difficulties in relationships with colleag	ues , or get help fr	om an		
	appropriate person, in a way that preserves goodwil	l and trust			
	Motivation				
	The user/individual on the job needs to know and unders	tand how to:			
	SA16. Take responsibility for completing one's own work a	-			
	SA17. Take initiative to enhance/learn skills in ones's area				
	SA18. The capacity to learn from experience in a range of s	_	rios 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 goa	lls; to develop stra	tegies		
	and take action to achieve them.				
	Reliability	and the second			
	The user/individual on the job needs to know and underst	tand how to:			
	SA21. Avoid absenteeism		. 1		
	SA22. Act objectively , rather than impulsively or emotion	ally when faced wi	th		
	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 understa	nd how to:			
	,				
	Handle injection moulding machine				
	Assemble/load mould on the plate				
	Handle rubber compound				
	Handle chemicals				
	The capacity to apply technology, combining the physical a				
	to operate equipment with the understanding of scientific	and technological			

principles needed to explore and adapt systems.









To Carry Out Reporting And Documentation

Plan and Organize

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

- SB2. seek clarification on problems from others
- SB3. apply problem-solving approaches in different situations
- SB4. 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 5. Interpret quality for sheet
- SB 6. 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:

- SB7. Proper collection of waste material
- SB8. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

Diagnose common problems in the machine based on visual inspection, sound , temperature ${\it etc}$

Suggest improvements(if any) in process based on experience

Critical Thinking

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

- SB9. Handle equipment/rubber sheet SB6. seek clarification on problems from others
- SB10. apply problem-solving approaches in different situations
- SB11. refer anomalies to the line manager



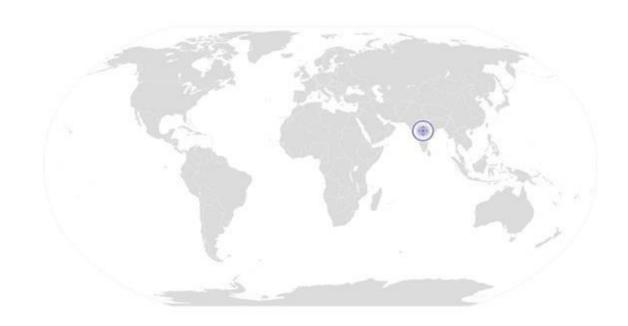






NOS Version Control

NOS Code	RSC / N 5002		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Moulding/Curing	Next review date	29/12/17



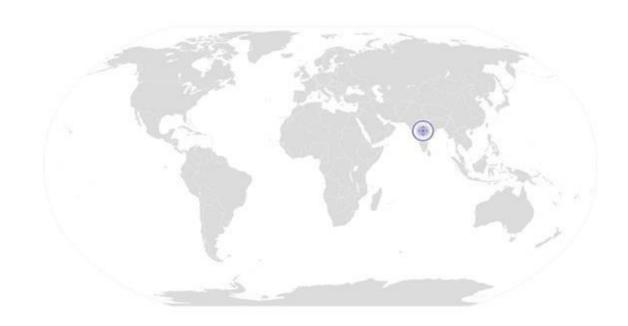








National Occupational Standard



Overview

This unit is about carrying out quality checks



National Occupational Standards





Unit Code RSC / N 5003 Unit Title (Task) Description This unit is about carrying out quality control activities Scope This unit/task covers the following: Carrying out quality checks to identify problems Take corrective actions Reporting the results Performance Criteria (PC) w.r.t. the Scope Element Performance Criteria To be competent, the user/individual on the job must be able to: PC1. Ensure that total range of checks are regularly and consistently performance content of the polyment of the problems of	Transforming the
Unit Title (Task) Description This unit is about carrying out quality control activities Scope This unit/task covers the following: Carrying out quality checks to identify problems Take corrective actions Reporting the results Performance Criteria (PC) w.r.t. the Scope Element Performance Criteria To be competent, the user/individual on the job must be able to: PC1. Ensure that total range of checks are regularly and consistently performance Criteria PC2. Use appropriate measuring instruments, equipment, tools, accessories required	.
To carry out quality checks	
This unit/task covers the following: Carrying out quality checks to identify problems Take corrective actions Reporting the results Performance Criteria (PC) w.r.t. the Scope Element Performance Criteria To be competent, the user/individual on the job must be able to: PC1. Ensure that total range of checks are regularly and consistently performance Criteria PC2. Use appropriate measuring instruments, equipment, tools, accessories required	
This unit/task covers the following: Carrying out quality checks to identify problems Take corrective actions Reporting the results Performance Criteria (PC) w.r.t. the Scope Element Performance Criteria To be competent, the user/individual on the job must be able to: PC1. Ensure that total range of checks are regularly and consistently performance Criteria PC2. Use appropriate measuring instruments, equipment, tools, accessories required	
To be competent, the user/individual on the job must be able to: PC1. Ensure that total range of checks are regularly and consistently perform PC2. Use appropriate measuring instruments, equipment, tools, accessories required	
To be competent, the user/individual on the job must be able to: PC1. Ensure that total range of checks are regularly and consistently perform PC2. Use appropriate measuring instruments, equipment, tools, accessories required	
PC1. Ensure that total range of checks are regularly and consistently perform PC2. Use appropriate measuring instruments, equipment, tools, accessorie required	
PC4. Identify potential causes of non-conformities to quality assurance sta	es etc ,as andards
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	У
Reporting PC9. Interpret the results of the quality check correctly PC10. Take up results of the findings with QC in charge/appropriate authori 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 identicated.	e
Knowledge and Understanding (K) The user/individual on the job needs to know and understand: KB1. The importance of quality control procedures KB2. Relevance and importance of activities and how they contribute to the	

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	MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP	Transforming the
	KB3. Proper procedure for selecting the material/proc	luct and performing q	uality
	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	g devices,	
	KB8. Requirements of records		
	KB9. Importance of maintaining accurate up-to-date r	ecords	
	KB10. The need to report within the stipulated time		
	KB11. Implications of inaccurate measuring and testing	instruments and equi	ipment
	KB12. The cost of non-conformance to quality standard	ls	
	KB13. Implications (impact on internal/external custom	ers) of defective prod	lucts,
	materials or components		
Skills (S)			
	Writing Skills		
	The user/ individual on the job needs to know and und	lerstand how to:	
	SA1. Construct simple sentences and express ideas clo		
	communication	- I	
	SA2. Fill up appropriate technical forms, process chart	s, activity logs in requ	iired
	format of the company	Y	
	SA3. Write simple letters, mails, etc	Classic Control	
	SA4. Perform functional mathematical operations, inc	luding apply basic	
A. Core Skills/	mathematical principles, such as numbers and sp	pace, and techniques s	such as
Generic Skills	estimation and approximation, for practical purp	oses	
	Reading Skills		
	The user/individual on the job needs to know and und	erstand 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 co	ompany norms	
	Oral Communication (Listening and Speaking skills)		









The user/individual on the job needs to know and understand how to: SAB. 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 grou activities (Quality Circle, Cross Functional Team, Suggestion Scheme) Integrity The user/individual on the job needs to know and understand how to: SA13. Practice honesty with respect to company property and time SA14. Communicate with people in a form and manner and using language that is open and respectful SA15. Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust Motivation The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/leam skills in onee's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed to operate equipment with the understanding of scientific and technological	RSC / N 5003	To Carry Out Quality Checks	GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP	Transforming the
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 grou activities (Quality Circle, Cross Functional Team, Suggestion Scheme) Integrity The user/individual on the job needs to know and understand how to: SA13. Practice honesty with respect to company property and time SA14. Communicate with people in a form and manner and using language that is open and respectful SA15. Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust Motivation The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed	,		erstand how to:	
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 grou activities (Quality Circle, Cross Functional Team, Suggestion Scheme) Integrity The user/individual on the job needs to know and understand how to: SA13. Practice honesty with respect to company property and time SA14. Communicate with people in a form and manner and using language that is open and respectful SA15. Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust Motivation The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		SA8. Express statements, opinions or information clear	rly so that others can	hear
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 grou activities (Quality Circle, Cross Functional Team, Suggestion Scheme) Integrity The user/individual on the job needs to know and understand how to: SA13. Practice honesty with respect to company property and time SA14. Communicate with people in a form and manner and using language that is open and respectful SA15. Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust Motivation The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		and understand		
SA11. Communicate with upstream and downstream teams SA12. Work in a team and other behavioral skills required to support the small grou activities (Quality Circle, Cross Functional Team, Suggestion Scheme) Integrity The user/individual on the job needs to know and understand how to: SA13. Practice honesty with respect to company property and time SA14. Communicate with people in a form and manner and using language that is open and respectful SA15. Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust Motivation The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		SA9. Respond appropriately to any queries		
SA12. Work in a team and other behavioral skills required to support the small grou activities (Quality Circle, Cross Functional Team, Suggestion Scheme) Integrity The user/individual on the job needs to know and understand how to: SA13. Practice honesty with respect to company property and time SA14. Communicate with people in a form and manner and using language that is open and respectful SA15. Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust Motivation The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		SA10. Communicate with supervisor		
activities (Quality Circle, Cross Functional Team, Suggestion Scheme) Integrity The user/individual on the job needs to know and understand how to: SA13. Practice honesty with respect to company property and time SA14. Communicate with people in a form and manner and using language that is open and respectful SA15. Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust Motivation The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		SA11. Communicate with upstream and downstream te	ams	
Integrity The user/individual on the job needs to know and understand how to: SA13. Practice honesty with respect to company property and time SA14. Communicate with people in a form and manner and using language that is open and respectful SA15. Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust Motivation The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		SA12. Work in a team and other behavioral skills require	ed to support the sm	all group
The user/individual on the job needs to know and understand how to: SA13. Practice honesty with respect to company property and time SA14. Communicate with people in a form and manner and using language that is open and respectful SA15. Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust Motivation The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		activities (Quality Circle, Cross Functional Team, S	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 Motivation The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experien@in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		Integrity		
SA14. Communicate with people in a form and manner and using language that is open and respectful SA15. Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust Motivation The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed				
open and respectful SA15. Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust Motivation The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed			•	
appropriate person, in a way that preserves goodwill and trust Motivation The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		· ·	and using language t	hat is
Motivation The user/individual on the job needs to know and understand how to: SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		,		om an
SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed				
SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		The user/individual on the job needs to know and unde	erstand how to:	
SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		SA16. Take responsibility for completing one's own wor	k assignment	
the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		SA17. Take initiative to enhance/learn skills in ones's are	ea of work	
SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		SA18. The capacity to learn from experience in a range of	of settings and scena	rios and
SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		the capacity to reflect on and analyse one's learn	ing.	
and take action to achieve them. Reliability The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		SA19. Is open to new ways of doing things	La Company	
The user/individual on the job needs to know and understand how to: SA21. Avoid absenteeism SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed			goals; to develop stra	tegies
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 The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		Reliability	19 11/	
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 The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		The user/individual on the job needs to know and unde	erstand how to:	
difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		SA21. Avoid absenteeism		
SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		SA22. Act objectively , rather than impulsively or emoti	onally when faced w	ith
B.Professional Skills The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		difficult/stressful or emotional situations		
B.Professional Skills The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		SA23. Work in disciplined factory environment		
B.Professional Skills The user/individual on the job needs to know and understand how to: Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		SA24. Be punctual		
Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		Decision Making		
Handle injection moulding machine Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed	B.Professional Skills	The user/individual on the job needs to know and unders	stand how to:	
Assemble/load mould on the plate Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		The usery marviadar on the job needs to know and unders	tuna now to.	
Handle rubber compound Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		Handle injection moulding machine		
Handle chemicals The capacity to apply technology, combining the physical and sensory skills needed		Assemble/load mould on the plate		
The capacity to apply technology, combining the physical and sensory skills needed		·		
to operate equipment with the understanding of scientific and technological			· ·	
		to operate equipment with the understanding of scient	ific and technological	l

principles needed to explore and adapt systems.









Plan and Organize

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

- SB2. seek clarification on problems from others
- SB3. apply problem-solving approaches in different situations
- SB4. 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 5. Interpret quality for sheet
- SB 6. 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:

- SB7. Proper collection of waste material
- SB8. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

Diagnose common problems in the machine based on visual inspection, sound , temperature ${\it etc}$

Suggest improvements(if any) in process based on experience

Critical Thinking

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

- SB9. Handle equipment/rubber sheet SB6. seek clarification on problems from others
- SB10. apply problem-solving approaches in different situations
- SB11. refer anomalies to the line manager



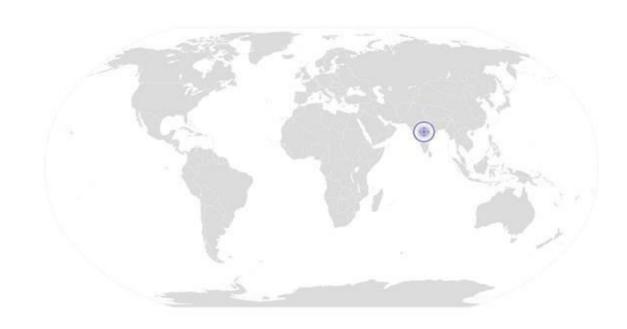






NOS Version Control

NOS Code	RSC / N 5003		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Moulding/Curing	Next review date	29/12/17



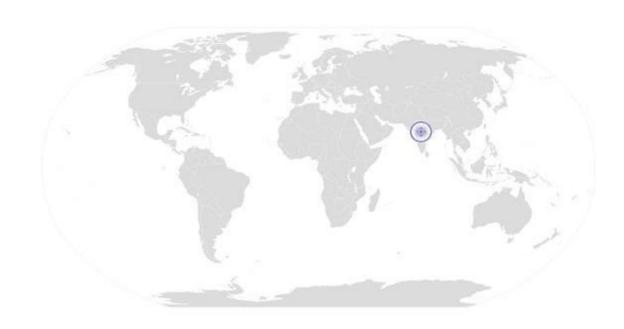








National Occupational Standard



Overview

This unit is about problem identification and escalation









To Carry Out Problem Identification And Escalation

N3C / N 3004	To carry out Froblem Identification And Escalation
Unit Code	RSC / N 5004
Unit Title (Task)	To carry out problem identification and escalation
Description	This unit is about problem identification and escalation
Scope	This unit/task covers the following: • Identify problems across:
	 Raw materials Compounds Product Equipment Others Identify solutions to problems Take corrective action
	Escalation of unresolved identified problems

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

Element	Performance Criteria
Lielliellt	Performance Citteria
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 problem has been resolved









To Carry Out Problem Identification And Escalation

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









RURRER SKILL DEVELOPMENT COUNCIL	National Occupational Standards				
RSC / N 5004	To Carry Out Problem Identification And Escalation To Carry Out Problem Identification And Escalation Transforming the				
	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)				
	Integrity				
	The user/individual on the job needs to know and understand how to:				
	SA13. Practice honesty with respect to company property and time				
	SA14. Communicate with people in a form and manner and using language that is				
	open and respectful				
	SA15. Resolve any difficulties in relationships with colleagues, or get help from an				
	appropriate person, in a way that preserves goodwill and trust				
	Motivation				
	The user/individual on the job needs to know and understand how to:				
	SA16. Take responsibility for completing one's own work assignment				
	SA17. Take initiative to enhance/learn skills in ones's area of work				
	SA18. The capacity to learn from experience in a range of settings and scenarios and				
	the capacity to reflect on and analyse one's learning.				
	SA19. Is open to new ways of doing things				
	SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them.				
	Reliability				
	The user/individual on the job needs to know and understand how to:				
	SA21. Avoid absenteeism				
	SA22. Act objectively , rather than impulsively or emotionally when faced with				
	difficult/stressful or emotional situations				
	SA23. Work in disciplined factory environment				
	SA24. Be punctual				

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:

Handle injection moulding machine

Assemble/load mould on the plate

Handle rubber compound

Handle chemicals

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:

- SB2. seek clarification on problems from others
- SB3. apply problem-solving approaches in different situations
- SB4. 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 5. Interpret quality for sheet
- SB 6. 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:

- SB7. Proper collection of waste material
- SB8. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

Diagnose common problems in the machine based on visual inspection, sound , temperature etc

Suggest improvements(if any) in process based on experience

Critical Thinking

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

- SB9. Handle equipment/rubber sheet SB6. seek clarification on problems from others
- SB10. apply problem-solving approaches in different situations
- SB11. refer anomalies to the line manager



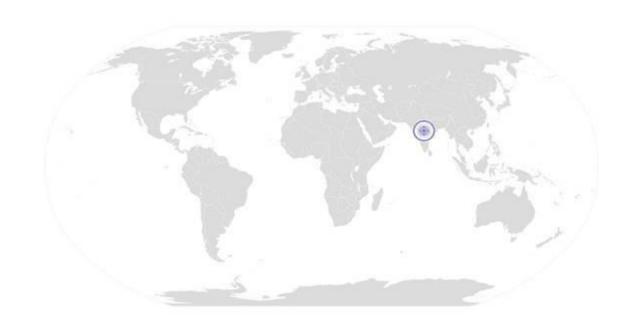






NOS Version Control

NOS Code	RSC / N 5004		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Moulding/Curing	Next review date	29/12/17



CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role: Injection Moulding Operator **Qualification Pack Code:** RSC/ Q 0207

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	The ory	Practi cal	
	PC1. Ensure that injection moulding machine is clean and fit for use as per SOP	5	3	2	
	PC2. Ensure upstream feeding device is loaded and ready for operation	5	3	2	
	PC3. Ensure emergency safety feature of machine is working	5	3	2	
	PC4. Select the correct mould and distribution system (sprue, drop, runners & gates)	5	3	2	
	PC5. Ensure that the mould is clean	5	3	2	
1. RSC/ N0701 (PC6. Ensure that barrel & distribution system (sprue, drop, runners & gates) are clean	5	3	2	
Prepare injection moulding	PC7. Assemble the mould & distribution system properly on the platen machine	5	3	2	
machine)	PC8. Load the mould and distribution system on the machine press for preheating	5	3	2	
	PC9. Set parameters for the injection moulding equipment (injection cycle time, temperature and clamping pressure), as per company's SOP	5	3	2	
	PC10. Keep all the accessories like cleaning brush, mould release lever (made of brass or aluminum flat), ready including mould release agent	5	3	2	
	PC11. Apply the mould release agent appropriately as per SOP	5	3	2	

	PC12. Ensure that identified rubber compound strip or granule is ready for feeding into the Injection Moulding machine for the entire shift	5	3	2
	PC13. Ensure that rubber compound strip or granule to be fed is approved by laboratory	5	3	2
	PC14. Match the batch code of each rubber compound with the batch code on the job schedule given by the planning department	5	3	2
	PC15. Ensure desired shape of rubber compound strip or granule for continuous feeding to Injection moulding machine.	5	3	2
	PC16. Ensure, by visual inspection, that rubber compound strip or granule is of desired quality (free of contamination/bloom)	5	3	2
	PC17. Ensure housekeeping/safety in the moulding area as per SOP	4	2	2
	PC18. Use lifting equipment such as forklift / Trolleys while lifting heavy materials such as moulds and distribution systems to avoid physical injury.	4	2	2
	PC19. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning	3	2	1
	PC20. Ensure that signage indicating hot surfaces is put up wherever necessary	4	3	1
	PC21. Adhere to all safety norms (eg wearing protective gloves, shoes, safety glasses)	3	2	1
	PC22. Comply with health, safety, environment guidelines, regulations in accordance with international/national standards or organizational SOP	2	1	1
		100	60	40
	PC1. Handle the rubber compound to avoid contamination	8	5	3
	PC2. Load the material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash	9	5	4
	PC3. Check the identified feed strip for dimension uniformity/identified granules	8	5	3
	PC4. Make the rubber compound strip or granule ready for feeding into the machine	9	5	4
2. RSC/ N0702 (PC5. Start the machine and feeding simultaneously	9	5	4
Perform injection moulding operation)	PC6. Ensure that moulding pressure and temperature is maintained during the curing cycle	9	5	4
	PC7. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning	9	5	4
	PC8. Cure the product as per SOP	9	5	4
	PC9. Remove the cured product from the mould as per SOP.	9	5	4
	PC10. Ensure Housekeeping and Safety in mixing area	7	5	2
	PC11. Adhere to all other safety norms (like wearing shoes)	7	5	2
	PC12. Comply with health, safety, environment guidelines, regulations in accordance with international/national	7	5	2

	standards or organizational SOP			
		100	60	40
	PC1. Remove cured product properly as per SOP	10	5	5
	PC2. Remove the cured compound from the pot/ flow grooves and ensure clean mould for next cycle	10	5	5
	PC3. Trim the piece to remove flash in a manner that does not cause injury to the operator or the product	10	5	5
	PC4. Ensure finishing operation including surface treatment of the cured product if required as per SOP before sending to inspection/warehouse.	10	5	5
	PC5. Dispose waste material in safe manner as per company's SOP	5	5	0
3. RSC/ N0703 (Undertake post moulding	PC6. 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)	10	5	5
activities)	PC7. Send sample of specified compound/ batch in specified form to lab for testing	9	4	5
	PC8. Send the remaining material to the designated storage area	9	4	5
	PC9. Ensure mould lifting/ejection/slide mechanism of the press are properly functioning	9	4	5
	PC10. Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses)	9	4	5
	PC11. Comply with health, safety, environment guidelines, regulations in accordance with international/national standards or organizational SOP	9	4	5
		100	50	50
	PC1. Inspect the area while taking into account various surfaces	3	3	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
4. RSC/ N5001 (To carry out housekeeping)	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 resoiling clean areas and surfaces	3	3	0
	PC6. Inform the affected people about the cleaning activity	3	3	0
	PC7. Display the appropriate signage for the work being conducted	5	5	0
	PC8. Ensure that there is adequate ventilation for the work being carried out	8	3	5
	PC9. Wear the personal protective equipment required for the cleaning method and materials being used	8	3	5

	PC10. Use the correct cleaning method for the work area, type of soiling and surface	3	3	0
	PC11. Carry out cleaning activity without disturbing others	3	3	0
	PC12. Deal with accidental damage, if any, caused while carrying out the work	8	3	5
	PC13. Report to the appropriate person any difficulties in carrying out your work	8	3	5
	PC14. Identify and report to the appropriate person any additional cleaning required that is outside one's responsibility or skill	8	3	5
	PC15. Ensure that there is no oily substance on the floor to avoid slippage	3	3	0
	PC16. Ensure that no scrap material is lying around	3	3	0
	PC17. Maintain and store housekeeping equipment and supplies	3	3	0
	PC18. Follow workplace procedures to deal with any accidental damage caused during the cleaning process	8	3	5
	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	2	2	0
	PC22. Dispose of used and un-used solutions according to manufacturer's instructions, and clean the equipment thoroughly	2	2	0
	PC23. Maintain schedules and records for housekeeping duty	2	2	0
	PC24. Replenish any necessary supplies or consumables	2	2	0
		100	70	30
	PC1. Report data/problems/incidents as applicable in a timely manner	11	6	5
	PC2. Report to the appropriate authority as laid down by the company	11	6	5
	PC3. Follow reporting procedures as prescribed by the company	11	6	5
5. RSC/ N5002 (To carry out	PC4. Identify documentation to be completed relating to one's role	11	6	5
reporting and	PC5. Record details accurately an appropriate format	11	6	5
documentation)	PC6. Complete all documentation within stipulated time according to company procedure	11	6	5
	PC7. Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly	11	6	5
	PC8. Make sure documents are available to all appropriate authorities to inspect	11	6	5

	PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures	6	6	0
	PC10. Inform the appropriate authority of requests for information received	6	6	0
		100	60	40
	PC1. Ensure that total range of checks are regularly and consistently performed	4	4	0
	PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as required	4	4	0
	PC3. Identify non-conformities to quality assurance standards	8	4	4
	PC4. Identify potential causes of non-conformities to quality assurance standards	7	4	3
	PC5. Identify impact on final product due to non-conformance to company standards	7	4	3
6. RSC/ N5003	PC6. Evaluating the need for action to ensure that problems do not recur	7	4	3
(To carry out	PC7. Suggest corrective action to address problem	7	4	3
quality checks)	PC8. Review effectiveness of corrective action	7	4	3
	PC9. Interpret the results of the quality check correctly	7	4	3
	PC10. Take up results of the findings with QC in charge/appropriate authority.	7	4	3
	PC11. Take up the results of the findings within stipulated time	7	4	3
	PC12. Record of results of action taken	7	4	3
	PC13. Record adjustments not covered by established procedures for future reference	7	4	3
	PC14. Review effectiveness of action taken	7	4	3
	PC15. Follow reporting procedures where the cause of defect cannot be identified	7	4	3
		100	60	40
	PC1. Identify defects/indicators of problems	5	3	2
	PC2. Identify any wrong practices that may lead to problems	5	3	2
7. RSC/ N5004 (PC3. Identify practices that may impact the final product quality	5	3	2
	PC4. Identify if the problem has occurred before	5	3	2
	PC5. Identify other operations that might be impacted by the problem	5	3	2
· · · · · · · · · · · · · · · · · · ·	the problem			
To carry out problem	PC6. Ensure that no delays are caused as a result of failure to escalate problems	5	3	2
To carry out	PC6. Ensure that no delays are caused as a result of failure to escalate problems PC7. Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm	5	3	2
To carry out problem identification	PC6. Ensure that no delays are caused as a result of failure to escalate problems PC7. Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required)			
To carry out problem identification	PC6. Ensure that no delays are caused as a result of failure to escalate problems PC7. Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm	5	3	2

PC11. Communicate problem/remedial action to appropriate parties	5	3	2
PC12. Take corrective action in a timely manner	5	3	2
PC13. Take corrective action for problems identified according to the company procedures	4	2	2
PC14. Report/document problem and corrective action in an appropriate manner	4	2	2
PC15. Monitor corrective action	4	2	2
PC16. Evaluate implementation of corrective action taken to determine if the problem has been resolved	4	2	2
PC17. Ensure that corrective action selected is viable and practical	4	2	2
PC18. Ensure that correct solution is identified to an identified problem	4	2	2
PC19. Take corrective action for problems identified according to the company procedures	4	2	2
PC20. Ensure that no delays are caused as a result of failure to take necessary action	4	2	2
PC21. Escalate problem as per laid down escalation matrix	2	2	0
PC22. Escalate the problem within stipulated time	2	2	0
PC23. Escalate the problem in an appropriate manner	2	2	0
PC24. Ensure that no delays are caused as a result of failure to escalate problems	2	2	0
	100	60	40