





## QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR RUBBER INDUSTRY

# What are Occupational Standards(OS)?

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

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## Introduction

# **Qualifications Pack- Compression Moulding Operator**

**SECTOR: RUBBER INDUSTRY** 

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

**OCCUPATION:** Moulding/curing

**REFERENCE ID:** RSC/ Q 0205

**ALIGNED TO:** NCO-2004/8231.67

**Brief Job Description:** The compression moulding machine operator is responsible for operating the machine and feeding the rubber compound and other required materials into the 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 0205		
Job Role	Compre	ession Moulding Opera	ator
Credits(NSQF)	TBD	Version number	1.0
Sector	Rubber Manufacturing	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	Compression Moulding Operator		
	The compression moulding machine operator is responsible for		
Role Description	operating the machine and feeding the rubber compound and		
Note Description	other required materials into the machine for making rubber		
	parts.		
NSQF level	4		
Minimum Educational Qualifications*	Class X		
Maximum Educational Qualifications*	ITI/Graduate in Science		
Training	Training on operation of machinery		
(Suggested but not mandatory)	Training on operation or maximery		
Minimum Job Entry Age	18 years		
Experience	Worked as a semi-skilled helper for 3-6 months in the same		
	role		
	Compulsory:		
	1. RSC/ N0501 ( <u>Prepare compression moulding machine</u> )		
	2. RSC/ N0502 ( Perform compression moulding operation)		
	3. RSC/ N0503 ( <u>Undertake post compression moulding</u>		
	activities )		
Applicable National Occupational	4. RSC/ N5001 (To carry out housekeeping)		
Standards (NOS)	5. RSC/ N5002 ( <u>To carry out reporting and documentation</u> )		
	6. RSC/ N5003 (To carry out quality checks)		
	7. RSC/ N5004 ( <u>To carry out problem identification and</u>		
	<u>escalation</u> )		
	Optional:		
	8. NA		
Performance Criteria	As described in the relevant OS units		



## Qualification Pack for Compression Mouldng operator





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









# National Occupational Standard



## **Overview**

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



# National Occupational Standards





#### **Prepare Compression Moulding Machine**

Unit Code	RSC / N 0501
Unit Title (Task)	Prepare compression moulding machine
Description	This unit is about preparing equipment for compression moulding operation
Scope	<ul> <li>This unit/task covers the following:</li> <li>Ensuring housekeeping and safety in the moulding area</li> <li>Prepare the moulding machine (Hydraulic press)</li> <li>Setting parameters on the moulding machine</li> <li>Loading the mould</li> </ul>
Performance Criteria (I	PC) w.r.t. the Scope
Element	Performance Criteria
Equipment readiness	PC1. Ensure that compression moulding machine is clean and fit for use as per SOP PC2. Ensure emergency safety feature of machine is working PC3. Select the correct mould PC4. Ensure that the mould is clean PC5. Assemble the mould properly on the platten PC6. Load the mould on the press for preheating and and clamp properly after checking alignment. PC7. Set parameters for the press (cycle time, temperature and ram pressure), as per company's SOP PC8. Apply the mould release agent appropriately as per SOP PC9. Keep all the accessories like cleaning brush, mould release lever (made of brass or aluminum flat), mould release agent ready
Raw material appropriateness	PC10. Ensure that rubber compound to be fed is approved by laboratory as per SOP PC11. Match the batch code of each rubber compound with the batch code on the job schedule given by the planning department, ensuring FIFO.  PC12. Cut the rubber compound as per desired specification(shape, size and weight) PC13. Weigh the blank pieces and ensure that they meet the requirement PC14. Ensure, by visual inspection, that rubber compound is of desired quality (free of contamination/ bloom)
Health & Safety	PC15. Ensure housekeeping/safety in the moulding area as per SOP PC16. Use lifting equipment such as forklift / Trolleys while lifting heavy materials such as moulds to avoid physical injury. PC17. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning









## **Prepare Compression Moulding Machine**

RSC / N 0501	Prepare Compression Moulding Machine
	PC18. Ensure that signage indicating hot surfaces is put up wherever necessary PC19. Adhere to all safety norms (like wearing protective gloves, shoes) PC20. Comply with health, safety, environment guidelines, regulations in accordance with international/national standards or organizational SOP
Knowledge and Unders	standing (K)
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand:  KA1. Knowledge of moulding operation and different type of moulds & presses.  KA2. Different types of mould release agents  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  KA7. Types of documentation in organization and importance of the same  KA8. Records to be maintained and implications of non-maintenance of the same  KA9. Importance of housekeeping (knowledge of 3S and 5S)  KA10.Health, Safety and Environment guidelines, legislation and regulations as applicable  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  KA16.The usage 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:
Knowledge	<ul> <li>KB1. Health hazards of process</li> <li>KB2. Possible causes of common moulding problems &amp; their remedies</li> <li>KB3. Functioning of steam traps (correlation of steam pressure and temperature)/ thermic / electrical heating systems)</li> <li>KB4. Influence of different process parameters (e.g. time, temperature, pressure) on moulding operation and product performance.</li> <li>KB5. Use of mould release agents</li> <li>KB6. Type of defects/problems leading to rejections, indicators, reasons and possible solutions.</li> <li>KB7. Cleanliness and safety requirements for commencing a moulding batch operation</li> <li>KB8. Units of measurement</li> <li>KB9. Response to emergencies e.g. Power failures, fire and system failures and manual intervention to avoid disaster</li> <li>KB10. Appropriate batch size with respect to appropriate machinery</li> </ul>









#### **Prepare Compression Moulding Machine**

RSC / N 0501	Prepare Compression Moulding Machine
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)
	The user/individual on the job needs to know and understand how to:
A. Core Skills/	SA8. Express statements, opinions or information clearly so that others can hear
Generic Skills	and understand
Generic Skiiis	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.









RSC / N 0501	Prepare Compression Moulding Machine
	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 inh products brown and understand how to
	The user/individual on the job needs to know and understand how to:
	Handle 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.
	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 inhunced to be an expected to the second of t
	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



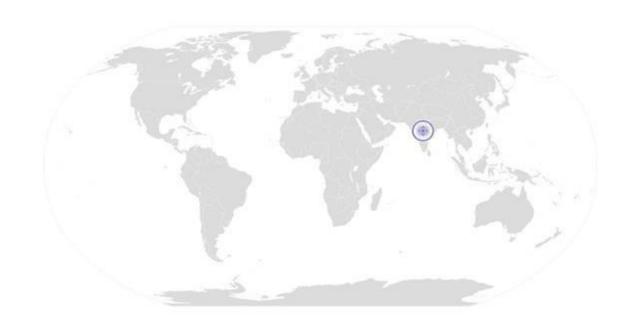






# National Occupational Standards Prepare Compression Moulding Machine

K2C / N 0201	Prepare Compression Moulding Machine
	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





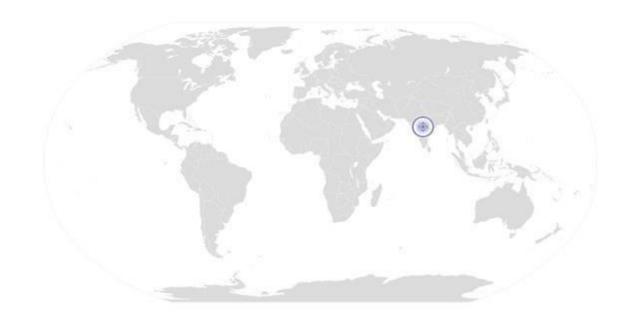






# **NOS Version Control**

NOS Code	RSC / N 0501		
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



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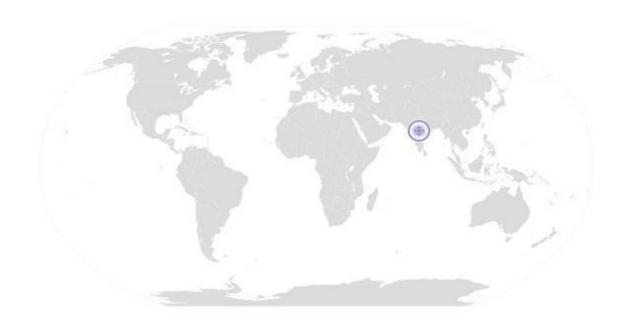








# National Occupational Standard



# **Overview**

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



# NOS National Occupational Standards





RSC / N 0502	Perform Compression Moulding Operation  National Occupational Standards  Perform Compression Moulding Operation		
Unit Code	RSC / N 0502		
Unit Title (Task)	Perform compression moulding operation		
Description	This unit is about performing compression moulding operation		
Scope	This unit/task covers the following:		
	<ul> <li>Ensuring housekeeping and safety in the moulding area</li> <li>Operate the machine</li> <li>Feed rubber compound and other materials into the machine</li> <li>Does not cover blown/expanded products</li> </ul>		
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		
Operation	<ul> <li>PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash</li> <li>PC3. Properly close the press and apply pressure uniformly</li> <li>PC4. Bump the press to ensure that air is eliminated</li> <li>PC5. Ensure that moulding pressure and temperature is maintained during the curing cycle</li> <li>PC6. Cure the product as per SOP</li> </ul>		
Health & Safety	<ul> <li>PC7. Ensure housekeeping/safety in the moulding area as per SOP</li> <li>PC8. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning</li> <li>PC9. Adhere to all other safety norms (like wearing shoes, hand gloves, safety glasses)</li> <li>PC10. Comply with health, safety, environment guidelines, regulations in accordance with international/national standards or organizational SOP</li> </ul>		
Knowledge and Unde	erstanding (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. Knowledge of moulding process and effect of the same  KA3. Types of heating processes (steam/electrical/thermo fluid)  KA4. Implications of poorly prepared material, power failure  KA5. Material disposal procedure, importance of appropriate disposal of material and implications of not following the material disposal procedure		









#### **Perform Compression Moulding Operation**

RSC / N 0502	Perform Compression Moulding Operation
	KA6. Quality and damage checks to be done and importance of the same
	KA7. Importance of identifying non-conforming products and storage of the same
	KA8. Risk and impact of not following defined procedures/work instructions
	KA9. Escalation matrix for reporting identified issues
	KA10. Types of documentation in organization and importance of the same
	KA11. Records to be maintained and implications of non-maintenance of the same
	KA12.Importance of housekeeping & good shop floor practices (knowledge of 3S and 5S)
	KA13.Health, Safety and Environment guidelines, legislation and regulations as applicable
	KA14. Personal protection( Which protective equipment to be used and how)
	KA15.Impact of poor practices on health, safety and environment
	KA16. Potential hazards and actions to minimize the same
	KA17. Escalation matrix and escalation procedure for reporting hazards
	KA18.Importance of FIFO
	KA19. The usage of different fire extinguisher
	KA20.Impact of various practices on cost, quality, productivity, delivery and safety
	KA21. Handover/ Takeover the equipment/ work area as per company's SOP
	The user/individual on the job needs to know and understand:
B. Technical Knowledge	<ul> <li>KB1. Different types of moulds, including various components of moulds and their function</li> <li>KB2. Possible causes of common moulding problems &amp; their remedies</li> <li>KB3. Different types of press (hydraulic, sideplate, C –Frame etc.) including various components press and their function.</li> <li>KB4. Cleanliness and safety requirements for operating a moulding machine</li> <li>KB5. Influence of various dimension (size, shape and complexity) of perform/blank on cost and product quality.</li> <li>KB6. Influence of process parameters (e.g. time, temperature, pressure) on moulding operation/product performance</li> <li>KB7. Compression moulding operation including closing and opening of the presses for quality product</li> <li>KB8. Operation of moulding machine (Equipment working, possible setting levels, typical process followed for different batches)</li> <li>KB9. Operation of multiple presses with common power pack and importance of sequencing</li> <li>KB10. Specific pressure required for different types of moulding</li> <li>KB11. Influence of time and temperature on curing of thick products</li> <li>KB12. State of curing – undercuring and overcuring</li> <li>KB13. Type of defects/problems leading to rejections, indicators, reasons and</li> </ul>
	possible solutions.  KB14. Effect of improper processing on properties of rubber compound & product  KB15. Units of measurement









RSC / N 0502	Perform Compression Moulding Operation		
	KB16. Response to emergencies e.g. Power failures, fire and system failures and		
	manual intervention to avoid disaster		
	KB17. Appropriate batch size with respect to appropriate machinery		
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/			
Generic Skills	The user/individual on the job needs to know and understand how to:		
	SA8. Express statements, opinions or information clearly so that others can hear		
	and understand		
	SA9. Respond appropriately to any queries		
	SA10. Communicate with supervisor		
	SA11. Communicate with upstream and downstream teams		
	SA12. Work in a team and other behavioral skills required to support the small group		
	activities (Quality Circle, Cross Functional Team, Suggestion Scheme)		
	Integrity		
	The user/individual on the job needs to know and understand how to:		
	SA13. Practice honesty with respect to company property and time		
	SA14. Communicate with people in a form and manner and using language that is		
	open and respectful		
	SA15. Resolve any difficulties in relationships with colleagues, or get help from an		
	appropriate person, in a way that preserves goodwill and trust		
	Motivation		
	The user/individual on the job needs to know and understand how to:		
	SA16. Take responsibility for completing one's own work assignment		
	SA17. Take initiative to enhance/learn skills in ones's area of work		









#### **Perform Compression Moulding Operation**

KSC / N U5U2	Perform Compression Moulding Operation
	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
B.Professional Skills	The user/individual on the job needs to know and understand how to:
	Handle and operation of moulding machine and related accessories
	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









#### **Perform Compression Moulding Operation**

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  $\mbox{\it etc}$ 

Suggest improvements(if any) in process based on experience

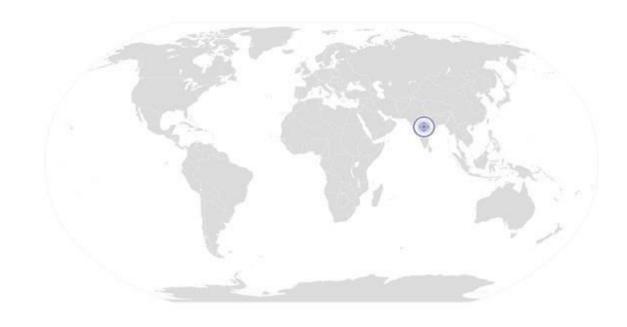
#### **Critical Thinking**

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





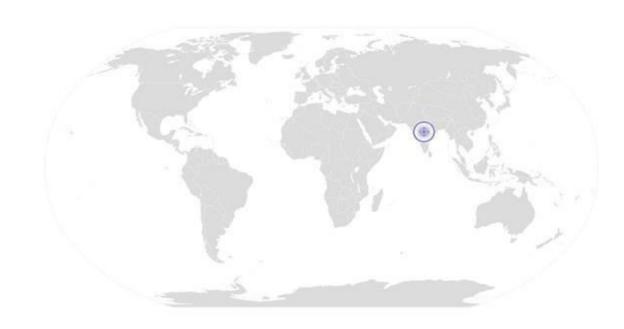






# **NOS Version Control**

NOS Code	RSC / N 0502		
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



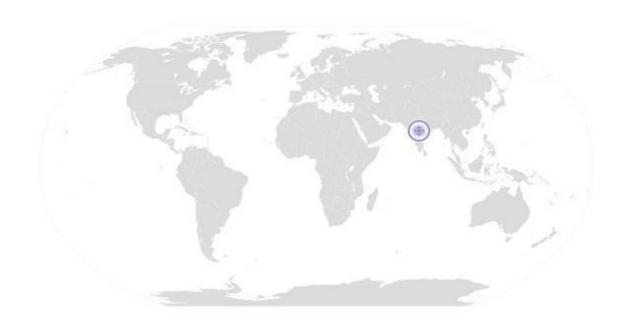








# National Occupational Standard



# **Overview**

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









Ondertake 1 0st compression inodulang Activities	
RSC / N 0503	
Undertake post compression moulding activities	
This unit is about undertaking activities after performing moulding operation	
<ul> <li>Ensuring housekeeping and safety in the moulding area</li> <li>Remove cured piece</li> <li>Trim the piece to remove flash</li> <li>Form appropriate batches of the product</li> <li>Mark the batch for proper identification for further processing</li> <li>Send sample to lab for testing</li> </ul>	

## 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. Ensure post cure wherever required as per SOP PC3. Remove the compound flash from the mould and ensure clean mould for next cycle as per SOP PC4. Trim the piece to remove flash in a manner that does not cause injury to the operator or the product as per SOP PC5. Ensure surface treatment of the cured product wherever required as per SOP
Material disposal	PC6. Dispose waste material in safe manner as per company's SOP
Batch Marking	PC7. 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	PC8. Send sample of specified compound/ batch in specified form to lab for testing PC9. Send the remaining material to the designated storage area
Health & Safety	PC10. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning PC11. Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses) PC12. Comply with health, safety, environment guidelines, regulations in accordance with international/national standards or organizational SOP









## RSC / N 0503 Undertake Post Compression Moulding Activities

K3C / N 0303	Order take Post Compression Moduling Activities
	The user/individual on the job needs to know and understand:
	KA1. Implications of poorly prepared material, power failure
	KA2. Use of instruments to check dimensions
	KA3. Significance of batch marking
	KA4. Importance of identifying non-conforming product and storage of the same
A. Organizational	KA5. Risk and impact of not following defined procedures/work instructions
Context	KA6. Escalation matrix and procedure for reporting identified problems
(Knowledge of the	KA7. Types of documentation in organization and importance of the same
company /	KA8. Records to be maintained and implications of non-maintenance of the same
organization and	KA9. Importance of housekeeping (knowledge of 3S and 5S)
its processes)	KA10.Health, Safety and Environment guidelines, legislation and regulations as
	applicable
	KA11. Personal protection( Which protective equipment to be used and how)
	KA12. Potential hazards and actions to minimize the same
	KA13.Impact of poor practices on health, safety and environment
	KA14. Escalation matrix and procedure for reporting hazards
	KA15. Handover/ Takeover the equipment/ work area as per company's SOP
	The user/individual on the job needs to know and understand:
	KB1. Mould fouling and remedial measures
	KB2. Possible causes of common moulding problems & their remedies
	KB3. Loading/unloading mechanisms and aids
	KB4. State of curing – undercuring and overcuring
B. Technical	KB5. The process and importance of quality check, including visual, hardness and
Knowledge	dimension check
Kilowieuge	
	KB6. Cleanliness and safety requirements for deflashing KB7. Type of defects/problems leading to rejections, indicators, reasons and
	possible solutions.
	KB8. Units of measurement
	KB9. Coding systems for identification and traceability
	KB10. Use of weighing scales, temperature measurement
	KB11. Storage life of the compound
	KB12. 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/ Generic Skills	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:

- 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

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

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

Handle and operation of moulding machine and related accessories 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



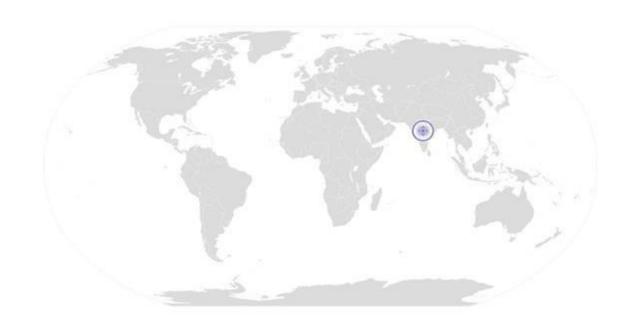






# **NOS Version Control**

NOS Code	RSC / N 0503		
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



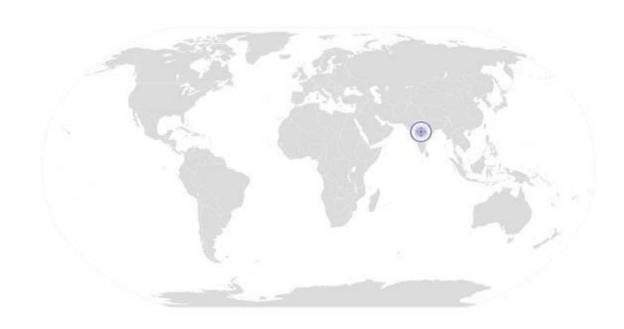








# National Occupational Standard



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# **Overview**

This unit is about carrying out housekeeping



# National Occupational Standards





#### **To Carry Out House Keeping**

Unit Code	RSC / N 5001		
Unit Title (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		









RSC / N 5001	To Carry Out House Keeping
	were used to the right places making sure they are clean, safe and securely
	stored
	PC21. Dispose the waste garnered from the activity in an appropriate manner
	PC22. Dispose of used and un-used solutions according to manufacturer's
	instructions, and clean the equipment thoroughly
Conoral	PC23. Maintain schedules and records for housekeeping duty
General	PC24. Replenish any necessary supplies or consumables
Knowledge and Under	rstanding (K)
	The user/individual on the job needs to know and understand:
	KB1. The levels of hygiene required by workplace and why it is important to maintain them during your work
	KB2. How to inspect a work area to decide what cleaning it needs
	KB3. Methods and materials that used for cleaning variety of surfaces
	KB4. The types of cleansing agents that are not to be mixed together
	KB5. The correct method for cleaning equipment and/or machinery used during your work
	KB6. The importance of personal protective equipment
	KB7. Appropriate personal protective equipment for the work area, cleaning
B. Technical	equipment, tools, materials and chemicals used
Knowledge	KB8. The correct sequence for cleaning the work area
Kilowieuge	KB9. The time taken by the treatment to work
	KB10. The importance of following manufacturer's instructions on cleaning agents
	KB11. The most appropriate place to carry out test cleans and why this should be done before applying treatments
	KB12. The importance of applying treatments evenly and the effect of not doing this
	KB13. Process of cleaning the surfaces without causing injury or damage
	KB14. The method to check the treated surface and equipment on completion of cleaning
	KB15. Procedures for reporting any unidentified soiling
	KB16. Procedures for disposing off waste
	KB17. Procedures for disposing off or storing personal protective equipment
	KB18. Escalation procedures for soils or stains that could not be removed
Skills (S)	
	Writing Skills
A 6	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









#### **To Carry Out House Keeping**

- 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:

- 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









### **To Carry Out House Keeping**

RSC / N 5001	To Carry Out House Keeping
	SA24. Be punctual
	Decision Making
B.Professional Skills	The user/individual on the job needs to know and understand how to:
	SB1. Handle and operation of moulding machine and related accessories
	SB2. Handle rubber compound
	SB3. Handle chemicals
	SB4. 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:
	SB5. seek clarification on problems from others
	SB6. apply problem-solving approaches in different situations
	SB7. 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 8. Interpret quality for sheet
	SB 9. 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: SB10. Proper collection of waste material
	SB11. Identify defects in the material and communicate it at the earliest and suggest
	improvements(if any) in process/material based on experience
	SB12. Diagnose common problems in the machine based on visual inspection, sound,
	temperature etc
	SB13. Suggest improvements(if any) in process based on experience
	Critical Thinking
	The user/individual on the job needs to know and understand how to:
	SB14. Handle equipment/rubber sheet SB6. seek clarification on problems from others
	SB15. apply problem-solving approaches in different situations
	SB11. refer anomalies to the line manager



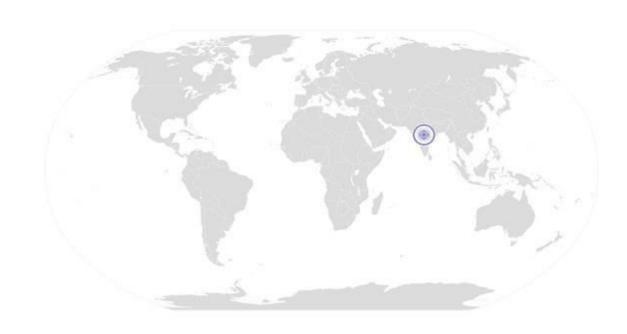




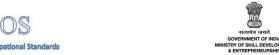


# **NOS Version Control**

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



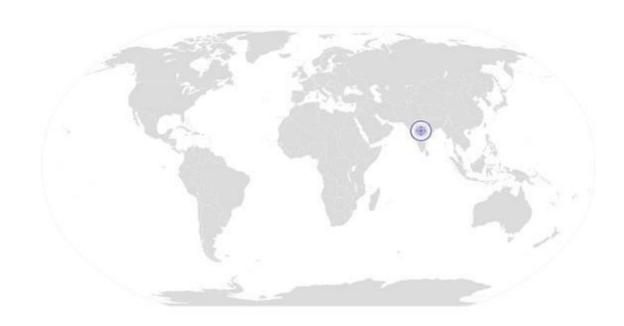








# National Occupational Standard



# **Overview**

This unit is about reporting and documentation









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

Unit Code	RSC / N 5002		
Unit Title			
(Task)	To carry out reporting and documentation		
Description	This unit is about carrying out reporting and documentation		
Scope	This unit/task covers the following:  Reporting of data/problem/incidents etc		
	Documentation		
	Information Security		
Performance Criteria (I	·		
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	<ul> <li>PC4. Identify documentation to be completed relating to one's role</li> <li>PC5. Record details accurately an appropriate format</li> <li>PC6. Complete all documentation within stipulated time according to company procedure</li> <li>PC7. Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly</li> <li>PC8. Make sure documents are available to all appropriate authorities to inspect</li> </ul>		
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	standing (K)		
B. Technical Knowledge	The user/individual on the job needs to know and understand:  KA1. Different methods of recording information  KA2. Various documents that need to be maintained  KA3. Company procedure for filling/maintaining up the documents  KA4. Procedures for reporting to the appropriate authority  KA5. Procedures for recording damage, breakages etc  KA6. Reporting incidents where standard operating procedures are not followed  KA7. The importance of complete and accurate documentation  KA8. How to maintain complete documentation accurately and within agreed		









#### N 5002 To Carry Out Reporting And Documentation

N3C / N 3002	To carry out Reporting And Documentation				
	KA9. The importance of ensuring that the documents are correct				
	KA10. The actions to be taken if the documents are not correct  KA11. The importance of maintaining the security and confidentiality of recorded information				
	KA12. Procedures to maintain confidentiality of information				
	KA13. The appropriate method for responding to requests for information				
	KA14. The reporting procedures to followed before disclosing information to any				
	outside party				
Skills (S)					
3Kill3 (3)					
	Writing Skills				
A. Core Skills/ Generic Skills	The user/individual on the job needs to know and understand how to:				
	SA1. Construct simple sentences and express ideas clearly through written communication				
	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)				









#### To Carry Out Reporting And Documentation

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	RSC / N 5002	To Carry Out Reporting And Documentation					
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B.Professional Skills  The user/individual on the job needs to know and understand how to:		Decision Making					
ass.,a. ass. s a.s. jes needs to know and and colorida now to	B.Professional Skills	The user/individual on the job needs to know and understand how to:					
Handle and operation of moulding machine and related accessories		Handle and operation of moulding machine and related accessories					
Handle rubber compound		Handle rubber compound					
Handle chemicals		Handle chemicals					
The capacity to apply technology, combining the physical and sensory skills needed to		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.							









#### **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 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



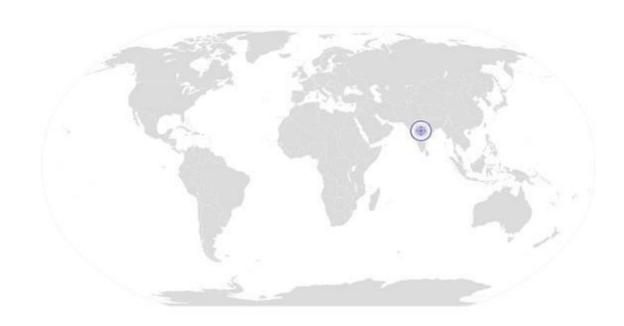








# National Occupational Standard



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# **Overview**

This unit is about carrying out quality checks







RSC / N 5003	To Carry Out Quality Checks
Unit Code	RSC / N 5003
Unit Title	To compare the state of the state of
(Task)	To carry out quality checks
Description	This unit is about carrying out quality control activities
Scope	This unit/task covers the following:
	Carrying out quality checks to identify problems
	Take corrective actions
	Reporting the results
Performance Criter	ia (PC) w.r.t. the Scope
Element	Performance Criteria
Inspection	To be competent, the user/individual on the job must be able to: PC1. Ensure that total range of checks are regularly and consistently performed PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as required
Analysis	PC3. Identify non-conformities to quality assurance standards PC4. Identify potential causes of non-conformities to quality assurance standards PC5. Identify impact on final product due to non-conformance to company standards PC6. Evaluating the need for action to ensure that problems do not recur PC7. Suggest corrective action to address problem PC8. Review effectiveness of corrective action
Reporting	PC9. Interpret the results of the quality check correctly PC10. Take up results of the findings with QC in charge/appropriate authority. PC11. Take up the results of the findings within stipulated time PC12. Record of results of action taken PC13. Record adjustments not covered by established procedures for future reference PC14. Review effectiveness of action taken PC15. Follow reporting procedures where the cause of defect cannot be identified
Knowledge and Und	derstanding (K)
	The user/individual on the job needs to know and understand:
B.Technical	
Knowledge	KB1. The importance of quality control procedures
<b>3</b> -	KB2. Relevance and importance of activities and how they contribute to the

achievement of the quality objectives,









RSC / N 5003	To Carry Out Quality Checks
	KB3. Proper procedure for selecting the material/product and performing quality
	checks without affecting the material
	KB4. Availability of work instructions, as necessary,
	KB5. Characteristics of the product/material
	KB6. Use of suitable equipment
	KB7. Availability and use of monitoring and measuring devices,
	KB8. Requirements of records
	KB9. Importance of maintaining accurate up-to-date records
	KB10. The need to report within the stipulated time
	KB11. Implications of inaccurate measuring and testing instruments and equipment
	KB12. The cost of non-conformance to quality standards
	KB13. Implications (impact on internal/external customers) of defective products,
	materials or components
Skills (S)	
	Writing Skills
	The user/ individual on the job needs to know and understand how to:
	SA1. Construct simple sentences and express ideas clearly through written
	communication
	SA2. Fill up appropriate technical forms, process charts, activity logs in required
	format of the company
	SA3. Write simple letters, mails, etc
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)









## **To Carry Out Quality Checks**

RSC / N 5003	To Carry Out Quality Checks
	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
	S. E. I. Se parietad.
	Decision Making
B.Professional Skills	
b.Professional skills	The user/individual on the job needs to know and understand how to:
	Handle and operation of moulding machine and related accessories
	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.
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#### **To Carry Out Quality Checks**

#### **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



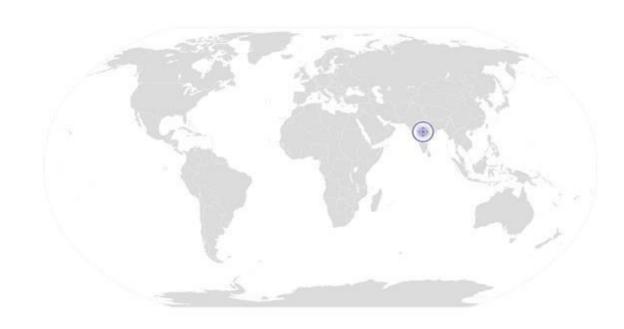






# **NOS Version Control**

NOS Code	RSC / N 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



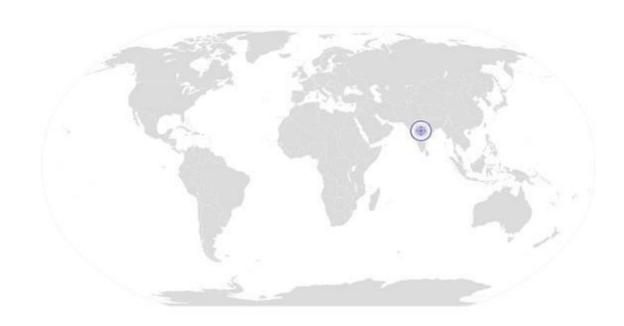








# National Occupational Standard



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# **Overview**

This unit is about problem identification and escalation









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

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

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









RSC / N 5004	To Carry Out Problem Identification And Escalation
	PC17. Ensure that corrective action selected is viable and practical
	PC18. Ensure that correct solution is identified to an identified problem
	PC19. Take corrective action for problems identified according to the company
	procedures
	PC20. Ensure that no delays are caused as a result of failure to take necessary action
	PC21. Escalate problem as per laid down escalation matrix
	PC22. Escalate the problem within stipulated time
Problem Escalation	PC23. Escalate the problem in an appropriate manner
	PC24. Ensure that no delays are caused as a result of failure to escalate problems
	, , , , , , , , , , , , , , , , , , , ,
Knowledge and 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
Kilowieuge	KB9. The correct method for carrying out corrective actions outlined for each problem
	KB10. The impact of not carrying out the corrective actions
	KB11. The documentation procedure for recording such problems, as per company
	norms
	KB12. The escalation matrix for reporting problems
	KB13. Escalation matrix for reporting unresolved problems
	KB14. The time frame within which in which each problem needs to be escalated
	KB15. Manner in which each problem needs to be escalated
Skills (S)	
	Writing Skills
	The user/ individual on the job needs to know and understand how to:
	SA1. Construct simple sentences and express ideas clearly through written
A Comp Chille/	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
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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**









**B.Professional Skills** 

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

Handle and operation of moulding machine and related accessories 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



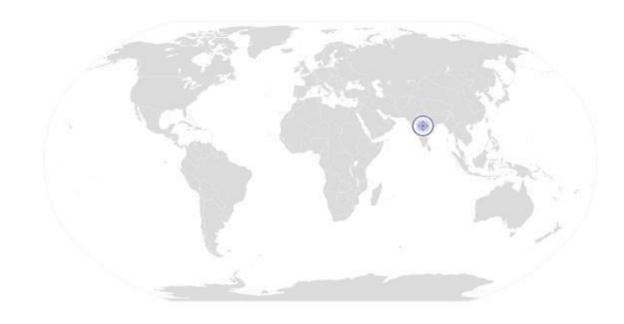






# **NOS Version Control**

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



Back to QP

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

**Job Role:** Compression Moulding Operator **Qualification Pack Code:** RSC/ Q 0205

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	Theory	Practical
_	PC1. Ensure that compression moulding machine is clean and fit for use as per SOP	2	2	0
	PC2. Ensure emergency safety feature of machine is working	2	2	0
	PC3. Select the correct mould	2	2	0
	PC4. Ensure that the mould is clean	2	2	0
	PC5. Assemble the mould properly on the platten	2	2	0
1. RSC/ N0501 (	PC6. Load the mould on the press for preheating and and clamp properly after checking alignment.	2	2	0
Prepare compression moulding machine)	PC7. Set parameters for the press (cycle time, temperature and ram pressure) , as per company's SOP	3	3	0
	PC8. Apply the mould release agent appropriately as per SOP	2	2	0
	PC9. Keep all the accessories like cleaning brush, mould release lever (made of brass or aluminum flat), mould release agent ready	3	3	0
	PC10. Ensure that rubber compound to be fed is approved by laboratory as per SOP	5	2	3
	PC11.Match the batch code of each rubber compound with the batch code on the job schedule	6	2	4

I	given by the planning department, ensuring FIFO.			
	PC12.Cut the rubber compound as per desired			
	specification(shape, size and weight)	5	2	3
	PC13.Weigh the blank pieces and ensure that they	-	2	2
	meet the requirement	5	2	3
	PC14. Ensure, by visual inspection, that rubber			
	compound is of desired quality (free of	5	2	3
	contamination/ bloom)			
	PC15. Ensure housekeeping/safety in the moulding	5	2	3
	area as per SOP	, j		3
	PC16.Use lifting equipment such as forklift / Trolleys			
	while lifting heavy materials such as moulds to avoid	5	2	3
	physical injury.			
	PC17. Ensure mould lifting/ ejection/ slide	6	3	3
	mechanism of the press are properly functioning			
	PC18. Ensure that signage indicating hot surfaces is	8	3	5
	put up wherever necessary			
	PC19.Adhere to all safety norms (like wearing	15	5	10
	protective gloves, shoes) PC20.Comply with health, safety, environment			
	guidelines, regulations in accordance with			
	international/national standards or organizational	15	5	10
	SOP			
		100	50	50
	PC1. Handle the rubber compound to avoid			
	PC1. Handle the rubber compound to avoid contamination	100	50 5	50 5
	· ·			
	contamination			
	contamination PC2. Load the identified material in the correct	10	5	5
	contamination PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash PC3. Properly close the press and apply pressure	10	5	5
	contamination  PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash  PC3. Properly close the press and apply pressure uniformly	10	5	5
	contamination PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash PC3. Properly close the press and apply pressure	10	5	5
2. RSC/ N0502 (	contamination  PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash  PC3. Properly close the press and apply pressure uniformly	10 10 5 5	5 10 5 5	5 0 0
Perform	contamination PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash PC3. Properly close the press and apply pressure uniformly PC4. Bump the press to ensure that air is eliminated	10 10 5	5 10 5	5 0 0
Perform compression	contamination PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash PC3. Properly close the press and apply pressure uniformly PC4. Bump the press to ensure that air is eliminated PC5. Ensure that moulding pressure and	10 10 5 5	5 10 5 5	5 0 0
Perform compression moulding	contamination  PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash  PC3. Properly close the press and apply pressure uniformly  PC4. Bump the press to ensure that air is eliminated PC5. Ensure that moulding pressure and temperature is maintained during the curing cycle	10 10 5 5 5 10	5 10 5 5 5 10	5 0 0 0 0
Perform compression	contamination  PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash  PC3. Properly close the press and apply pressure uniformly  PC4. Bump the press to ensure that air is eliminated  PC5. Ensure that moulding pressure and temperature is maintained during the curing cycle  PC6. Cure the product as per SOP  PC7. Ensure housekeeping/safety in the moulding area as per SOP	10 10 5 5 5	5 10 5 5 5	5 0 0 0
Perform compression moulding	contamination  PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash  PC3. Properly close the press and apply pressure uniformly  PC4. Bump the press to ensure that air is eliminated  PC5. Ensure that moulding pressure and temperature is maintained during the curing cycle  PC6. Cure the product as per SOP  PC7. Ensure housekeeping/safety in the moulding area as per SOP  PC8. Ensure mould lifting/ ejection/ slide	10 10 5 5 5 10 15	5 10 5 5 5 10 5	5 0 0 0 0 0
Perform compression moulding	contamination  PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash  PC3. Properly close the press and apply pressure uniformly  PC4. Bump the press to ensure that air is eliminated  PC5. Ensure that moulding pressure and temperature is maintained during the curing cycle  PC6. Cure the product as per SOP  PC7. Ensure housekeeping/safety in the moulding area as per SOP  PC8. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning	10 10 5 5 5 10	5 10 5 5 5 10	5 0 0 0 0
Perform compression moulding	contamination  PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash  PC3. Properly close the press and apply pressure uniformly  PC4. Bump the press to ensure that air is eliminated  PC5. Ensure that moulding pressure and temperature is maintained during the curing cycle  PC6. Cure the product as per SOP  PC7. Ensure housekeeping/safety in the moulding area as per SOP  PC8. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning  PC9. Adhere to all other safety norms (like wearing	10 10 5 5 5 10 15	5 10 5 5 5 10 5	5 0 0 0 0 0 10
Perform compression moulding	contamination  PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash  PC3. Properly close the press and apply pressure uniformly  PC4. Bump the press to ensure that air is eliminated  PC5. Ensure that moulding pressure and temperature is maintained during the curing cycle  PC6. Cure the product as per SOP  PC7. Ensure housekeeping/safety in the moulding area as per SOP  PC8. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning  PC9. Adhere to all other safety norms (like wearing shoes, hand gloves, safety glasses)	10 10 5 5 5 10 15	5 10 5 5 5 10 5	5 0 0 0 0 0
Perform compression moulding	contamination  PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash  PC3. Properly close the press and apply pressure uniformly  PC4. Bump the press to ensure that air is eliminated  PC5. Ensure that moulding pressure and temperature is maintained during the curing cycle  PC6. Cure the product as per SOP  PC7. Ensure housekeeping/safety in the moulding area as per SOP  PC8. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning  PC9. Adhere to all other safety norms (like wearing shoes, hand gloves, safety glasses)  PC10.Comply with health, safety, environment	10 10 5 5 5 10 15	5 10 5 5 5 10 5	5 0 0 0 0 0 10
Perform compression moulding	contamination  PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash  PC3. Properly close the press and apply pressure uniformly  PC4. Bump the press to ensure that air is eliminated  PC5. Ensure that moulding pressure and temperature is maintained during the curing cycle  PC6. Cure the product as per SOP  PC7. Ensure housekeeping/safety in the moulding area as per SOP  PC8. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning  PC9. Adhere to all other safety norms (like wearing shoes, hand gloves, safety glasses)  PC10.Comply with health, safety, environment guidelines, regulations in accordance with	10 10 5 5 5 10 15	5 10 5 5 5 10 5	5 0 0 0 0 0 10 5
Perform compression moulding	contamination  PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash  PC3. Properly close the press and apply pressure uniformly  PC4. Bump the press to ensure that air is eliminated  PC5. Ensure that moulding pressure and temperature is maintained during the curing cycle  PC6. Cure the product as per SOP  PC7. Ensure housekeeping/safety in the moulding area as per SOP  PC8. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning  PC9. Adhere to all other safety norms (like wearing shoes, hand gloves, safety glasses)  PC10.Comply with health, safety, environment guidelines, regulations in accordance with international/national standards or organizational	10 10 5 5 5 10 15 10	5 10 5 5 10 5 5	5 0 0 0 0 0 10 5
Perform compression moulding	contamination  PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash  PC3. Properly close the press and apply pressure uniformly  PC4. Bump the press to ensure that air is eliminated  PC5. Ensure that moulding pressure and temperature is maintained during the curing cycle  PC6. Cure the product as per SOP  PC7. Ensure housekeeping/safety in the moulding area as per SOP  PC8. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning  PC9. Adhere to all other safety norms (like wearing shoes, hand gloves, safety glasses)  PC10.Comply with health, safety, environment guidelines, regulations in accordance with	10 10 5 5 5 10 15 10	5 10 5 5 10 5 5	5 0 0 0 0 0 10 5

	PC1. Remove cured product properly as per SOP	3	3	0
	PC2. Ensure post cure wherever required as per SOP	3	3	0
	PC3. Remove the compound flash from the mould	2	2	0
	and ensure clean mould for next cycle as per SOP	3	3	0
	PC4. Trim the piece to remove flash in a manner			
	that does not cause injury to the operator or the	5	5	0
	product as per SOP			
	PC5. Ensure surface treatment of the cured product	5	5	0
	wherever required as per SOP	5	5	U
	PC6. Dispose waste material in safe manner as per	5	5	0
	company's SOP	3	3	O
3. RSC/ N0503 (	PC7. Ensure identification and traceability by batch			
Undertake post	marking/ coding for the right product as per	30	15	15
compression	instructions laid down by the company (in terms of	30	13	13
moulding activities	batch number, colour, date stamp)			
)	PC8. Send sample of specified compound/ batch in	3	3	0
	specified form to lab for testing			
	PC9. Send the remaining material to the designated	5	5	0
	storage area			
	PC10. Ensure mould lifting/ ejection/ slide	10	5	5
	mechanism of the press are properly functioning		_	
	PC11. Adhere to all safety norms (like wearing	14	4	10
	protective gloves, shoes, safety glasses)			
	PC12. Comply with health, safety, environment			
	guidelines, regulations in accordance with	14	4	10
	international/national standards or organizational			
	SOP			
		100	60	40
	PC1. Inspect the area while taking into account various surfaces	5	3	2
	PC2. Identify the material requirements for cleaning	5	2	2
	the areas inspected, by considering risk, time, efficiency and type of stain	5	3	2
	PC3. Ensure that the cleaning equipment is in proper			
	working condition	4	2	2
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	5	3	2
	appropriate person			
	PC5. Plan the sequence for cleaning the area to			
	avoid re-soiling clean areas and surfaces	5	3	2
	PC6. Inform the affected people about the cleaning			
	, ,	4	2	2
	activity			
	activity PC7. Display the appropriate signage for the work			2
	·	8	5	3
	PC7. Display the appropriate signage for the work			3

	PC9. Wear the personal protective equipment required for the cleaning method and materials being used	5	3	2
	PC10. Use the correct cleaning method for the work area, type of soiling and surface	5	3	2
	PC11. Carry out cleaning activity without disturbing others	2	2	0
	PC12. Deal with accidental damage, if any, caused while carrying out the work	5	5	0
	PC13. Report to the appropriate person any difficulties in carrying out your work	3	3	0
	PC14. Identify and report to the appropriate person any additional cleaning required that is outside one's responsibility or skill	6	3	3
	PC15. Ensure that there is no oily substance on the floor to avoid slippage	4	4	0
	PC16. Ensure that no scrap material is lying around	4	4	0
	PC17. Maintain and store housekeeping equipment and supplies	4	4	0
	PC18. Follow workplace procedures to deal with any accidental damage caused during the cleaning process	2	2	0
	PC19. Ensure that, on completion of the work, the area is left clean and dry and meets requirements	2	2	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	2	2	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	6	3	3
	PC24. Replenish any necessary supplies or consumables	6	3	3
		100	70	30
	PC1. Report data/problems/incidents as applicable in a timely manner	8	4	4
5. RSC/ N5002 (To carry out reporting and	PC2. Report to the appropriate authority as laid down by the company	8	4	4
	PC3. Follow reporting procedures as prescribed by the company	8	4	4
documentation)	PC4. Identify documentation to be completed relating to one's role	19	14	5
	PC5. Record details accurately an appropriate	26	14	12

	format			
	PC6. Complete all documentation within stipulated	8	4	4
	time according to company procedure  PC7. Ensure that the final document meets with the			
		8	_	4
	requirements of the persons who requested it or	0	4	4
	make any amendments accordingly PC8. Make sure documents are available to all			
	appropriate authorities to inspect	7	4	3
	PC9. Respond to requests for information in an			
	appropriate manner whilst following organizational	4	4	0
	procedures	7	7	O
	PC10. Inform the appropriate authority of requests			
	for information received	4	4	0
	Tot Information received	100	60	40
	DC4 For a that total account the decree of the	100	60	40
	PC1. Ensure that total range of checks are regularly	6	4	2
	and consistently performed			
	PC2. Use appropriate measuring instruments,	11	4	7
	equipment, tools, accessories etc ,as required			
	PC3. Identify non-conformities to quality assurance	6	4	2
	standards			
	PC4. Identify potential causes of non-conformities to	5	3	2
	quality assurance standards			
	PC5. Identify impact on final product due to non-	5	3	2
	conformance to company standards			
	PC6. Evaluating the need for action to ensure that	7	5	2
6. RSC/ N5003 (To	problems do not recur	_		2
carry out quality	PC7. Suggest corrective action to address problem	7	5	2
checks)	PC8. Review effectiveness of corrective action	7	5	2
	PC9. Interpret the results of the quality check	5	3	2
	correctly	3	<u> </u>	-
	PC10. Take up results of the findings with QC in	5	3	2
	charge/appropriate authority.	J		-
	PC11. Take up the results of the findings within	6	3	3
	stipulated time	Ů		
	PC12. Record of results of action taken	8	5	3
	PC13. Record adjustments not covered by	8	5	3
	established procedures for future reference	0	J	J
	PC14. Review effectiveness of action taken	6	3	3
	PC15. Follow reporting procedures where the cause	0	_	2
	of defect cannot be identified	8	5	3
		100	60	40
7. RSC/ N5004 ( To carry out problem identification and escalation )	PC1. Identify defects/indicators of problems	2	2	0
	PC2. Identify any wrong practices that may lead to			
	problems	3	3	0
	PC3. Identify practices that may impact the final			
		3	3	0
	product quality	3	3	U

PC4. Identify if the problem has occurred before		2	0
PC5. Identify other operations that might be impacted by the problem		3	0
PC6. Ensure that no delays are caused as a result of		2	0
failure to escalate problems  PC7. Take appropriate materials and sample,			
conduct tests and evaluate results to establish	_	2	
reasons to confirm suspected reasons for non-	2		0
conformance (where required)			
PC8. Consider possible reasons for identification of	2	2	_
problems	3	3	0
PC9. Consider applicable corrections and formulate	2	2	0
corrective action	3	3	0
PC10. Formulate action in a timely manner	3	3	0
PC11.Communicate problem/remedial action to	2	2	0
appropriate parties	2	2	0
PC12. Take corrective action in a timely manner	4	4	0
PC13. Take corrective action for problems identified	4	4	0
according to the company procedures	4	4	0
PC14.Report/document problem and corrective	3	3	0
action in an appropriate manner	3	3	0
PC15.Monitor corrective action	2	2	0
PC16. Evaluate implementation of corrective action			
taken to determine if the problem has been	2	2	0
resolved			
PC17. Ensure that corrective action selected is viable	2	2	0
and practical	2	2	0
PC18. Ensure that correct solution is identified to an	2	2	0
identified problem	۷	2	U
PC19. Take corrective action for problems identified	2	2	0
according to the company procedures	2	2	U
PC20. Ensure that no delays are caused as a result of	3	3	0
failure to take necessary action	,	,	U
PC21. Escalate problem as per laid down escalation	12	2	10
matrix		_	10
PC22. Escalate the problem within stipulated time		2	10
PC23. Escalate the problem in an appropriate		2	10
manner			10
PC24. Ensure that no delays are caused as a result of		2	10
failure to escalate problems	12		10
	100	60	40