





QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR RUBBER INDUSTRY

What are Occupational Standards(OS)?

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

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Introduction

Qualifications Pack- Radial Building Operator

SECTOR: RUBBER INDUSTRY

SUB-SECTOR: Tyre

OCCUPATION: Tyre building

REFERENCE ID: RSC/ Q 0520

ALIGNED TO: NCO-2004/8231.80

Brief Job Description: The role of Radial building operator involves making a

pneumatic tyre.

Personal Attributes: This job requires the individual to work independently. The operator must have an eye for detail, should be an analytical thinker and be able to troubleshoot problems. The individual must be physically fit for working in the factory environment and be willing to do labourious jobs.







सत्यमेव जयते GOVERNMENT OF INDIA MINISTRY OF SKULL DEVELOPMENT Qualifications Pack For Radial building operator

Qualifications Pack Code		RSC/ Q 0520	
Job Role	Rac	dial Building Operator	
Credits(NSQF)	TBD	Version number	1.0
Sector	Rubber Manufacturing	Drafted on	04/06/13
Sub-sector	Tyre	Last reviewed on	29/12/15
Occupation	Tyre building	Next review date	29/12/15
NSQC Clearnace on	20/07/2015		

Job Role	Radial Building Operator		
Role Description	The Radial Building Operator involves making a pneumatic tyre		
NVEQF/NVQF level	4		
Minimum Educational Qualifications*	Class X		
Maximum Educational Qualifications*	ITI/Graduate		
Training (Suggested but not mandatory)	Training on operation of machinery		
Minimum Job Entry Age	18 years		
Experience	In lieu of minimum qualification the employee has worked as a semi-skilled helper for minimum 6 months in the same role.		
	Compulsory:		
	1. RSC/ N2001 (Prepare tyre building)		
	2. RSC/ N2002 (<u>Build radial pneumatic tyre</u>)		
	3. RSC/ N2003 (<u>Post tyre building activities for radial tyre</u>)		
Applicable National Occupational	4. RSC/ N5001 (<u>To carry out housekeeping</u>)		
Standards (NOS)	5. RSC/ N5002 (<u>To carry out reporting and documentation</u>)		
Standards (NOS)	 RSC/ N5003 (<u>To carry out quality checks</u>) RSC/ N5004 (To carry out problem estimation and 		
	7. RSC/ N5004 (<u>To carry out problem estimation and escalation</u>)		
	Optional:		
	8. NA		
Performance Criteria	As described in the relevant OS units		







सत्यमेव जयते GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT Qualifications Pack For Radial building 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.











Overview

This unit is about preparing tyre building machine and collecting all tyre Components for Radial Tyre Building









Unit Code	RSC / N 2001		
Unit Title (Task)	Prepare tyre building machine		
Description	This unit is about preparing tyre building machine and collecting all tyre components for Radial Tyre Building		
Scope	This unit/task covers the following: • Preparing Radial first stage and second stage tyre building machine		
	Collecting all components required for tyre building		
Performance Criteria	a (PC) w.r.t. the Scope		
Element	Criteria		
Equipment readiness	To be competent, the user/individual on the job must be able to: PC1. Ensure that tyre building machine is clean PC2. Ensure that building drum is clean PC3. Ensure that building drum of the correct size is in place PC4. Set parameters for the building machine as per job card PC5. Follow equipment preparation process as per company requirements PC6. Ensure that no delays are caused as a result of improper preparation and failure to identify problems. PC7. Keep other building materials & tools such as drum cement, inner liner, sidewall, plies, bead, tyre chord, belts, stitchers, knife and tread ready		
Raw material appropriateness	PC8. Ensure that material to be fed is approved by laboratory PC9. Collect all materials required for the batch PC10. Match the batch code of each material with the batch code on the job schedule given by the planning department PC11. Ensure that components such as bead, freshening solvent and swab are ready PC12. Ensure that other materials are in the correct quantity PC13. Ensure, by visual inspection, that raw material is of desired quality (free of contamination etc.) PC14. Ensure that no delays are caused as a result of improper preparation and failure to identify problems		
Health & Safety	PC15. Housekeeping and Safety in Tyre Building are PC16. Do not wear loose and torn clothes during working hours PC17. Ensure no spillage of Naphtha or Solvent		

PC18. Use Forklift / Trolleys etc. while lifting heavy materials such as heavy









	finished tyres to avoid physical injury.
	PC19. Ensure use of personal protective equipment like wearing protective
	gloves, safety shoes, Safety Glasses, safety mask etc
	PC20. Adhere to all the other safety norms (like wearing protective gloves etc)
	PC21. Comply with other health, safety, environment guidelines, regulations etc
	in accordance with company procedure
Knowledge and Und	
A. Organizational	The user/individual on the job needs to know and understand:
Context (KA)	KA1. Implications of poorly prepared equipment, power failure etc
(Knowledge of	KA2. Importance of identifying non-conforming material and storage of the
the company /	same
organization	KA3. Risk and impact of not following defined procedures/work instructions
and its	KA4. Escalation matrix for reporting identified problems
processes)	KA5. Types of documentation in organization and importance of the
	same
	KA6. Records to be maintained and implications of non-maintenance of the
	same
	KA7. Importance of housekeeping
	KA8. Health, Safety and Environment guidelines, legislation and regulations
	applicable
	KA9. Personal protection(Which protective equipment to be used and how)
	KA10.Impact of poor practices on health, safety and environment
	KA11. Potential hazards and actions to minimize the same
	KA12. Escalation matrix and escalation procedure for reporting hazards
B. Technical	The user/individual on the job needs to know and understand:
Knowledge (KB)	
	KB1. Importance of various components (like bead, ply, tread, sidewall etc) on
	subsequent process and performance of the product
	KB2. Importance of process parameters (time, temperature, pressure, humidity,
	drum rotation rpm etc) and their impact
	KB3. Ability to take measurement using gauges and balance (for thickness,
	width and weight)
	KB4. Cleanliness and safety requirements for commencing a tyre building
	operation
	KB5. Health hazard due to inhalation of solvent
	KB6. Fire hazard due to flammable solvent
	KB7. The role of protective railing, light barriers, safety mats and scanners
	which are present for the protection of operator and complete tyre
	building machinery.
	KB8. Effect of improper tyre building on performance of tyre
	KB9. Implications of delays in preparation process
	Kb3. Implications of delays in preparation process









	KB10. Types of defects leading to rejections.
	KB11. Potential problems in preparation process
	KB12. Indicators and reasons of potential problems
	KB13. Appropriate solutions to the problems encountered
	KB14. Units of measurement
	KB15. Response to emergencies e.g. Power failures ,fire and system failures
	KB16. The usage of different fire extinguishers
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 year lied initial on the interpretate transportant with a second to the second with a second to the second to
	The user/individual on the job needs to know and understand how to:
	SA5. Read and understand manuals, health and safety instructions, memos,
	reports, job cards etc
A. Core Skills/	SA6. Read images, graphs, diagrams
Generic Skills	SA7. Understand the various coding systems as per company norms
	Oral Communication (Listening and Speaking skills)
	Crair Communication (Listening and Speaking State)
	The user/individual on the job needs to know and understand how to:
	SA8. Express statements, opinions or information clearly so that others can
	hear and understand
	SA9. Respond appropriately to any queries
	SA10. Communicate with supervisor
	SA11. Communicate with upstream and downstream teams
	SA12. Work in a team and other behavioral skills required to support the small
	group activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
	SA13. Practice honesty with respect to company property and time
	SA14. Communicate with people in a form and manner and using language that
	is open and respectful
	SA15. Resolve any difficulties in relationships with colleagues , or get help from
	an appropriate person, in a way that preserves goodwill and trust
	SA16. Take responsibility for completing one's own work assignment









	SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios
	and the capacity to reflect on and analyse one's learning.
	SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop
	strategies and take action to achieve them. SA21. Avoid absenteeism
	SA22. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations
	SA23. Work in disciplined factory environment SA24. Be punctual
	Decision Making
B.Professional Skills	The user/individual on the job needs to know and understand how to:
	SB1. Take appropriate decisions regarding processing steps in view of changing quality and availability of raw materials and finished goods.
	SB1. Handle internal mixer, accessories
	SB2. Handle rubber compound SB3. Handle chemicals
	SB4. Handling of various types of material handling equipment like forklifts, trolleys
	SB2. 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:
	S7. seek clarification on problems from others SB8. apply problem-solving approaches in different situations
	SB9. 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 10. Interpret quality for sheet
	SB 11. 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:

SB12. Proper collection of waste material

SB13. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

SB14. Diagnose common problems in the machine based on visual inspection, sound , temperature etc

SB15. Suggest improvements(if any) in process based on experience

Critical Thinking

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

SB16. Handle equipment/rubber sheet SB6. seek clarification on problems from others

SB17. apply problem-solving approaches in different situations

SB18. refer anomalies to the line manager











NOS Version Control

NOS Code	RSC / N 2001		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	04/06/13
Industry Sub-sector	Tyre	Last reviewed on	29/12/15
Occupation	Tyre building	Next review date	29/12/17













Overview

This unit is about building radial pneumatic tyres



NOS National Occupational Standards Build radial pneumatic tyre





Unit Code	RSC / N 2002
Unit Title (Task)	Build radial pneumatic tyre
Description	This unit is about building Radial pneumatic tyre
Scope	This unit/task covers the following:
	Building radial tyre – 1 st stage - 1
	Building radial tyre – 2 nd stage

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

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Element	Criteria
Raw material appropriateness	To be competent, the user/individual on the job must be able to: PC1. Ensure, by visual inspection, that tyre building material is of desired quality (free of contamination etc.) PC2. Ensure that batch size of tyre building material is as per specified quantity
Operation	Perform First Stage Activities PC3. Plan batch sequence in shifts based on raw material availability/rejection to maximize output PC4. Position bead joint correctly for proper tyre balance. PC5. Set inner liner at the drum and rotate around the drum one turn PC6. Cut joint with a hot knife PC7. Set inner liner end to end so that the diagonal cutting seam is at the top PC8. Fasten the ends together manually PC9. Set cord ply ends at the drum and rotate the drum one turn. PC10. Cut the cord ply manually and join with 2 - 5 overlapping cords PC11. Press the joint carefully at the edges PC12. Mount bead wire and turn-up is done automatically. PC13. Turn edges with bladders over the beads and stitch tightly. PC14. Set sidewall ends at the drum and rotate around the drum one turn. PC15. Set sidewall end to end and fasten the seam together manually. Perform Second Stage Activities PC16. Tread Package Manufacturing: Join belt by cutting it with a hot knife and setting the ends together at the belt drum. PC17. Set end of the nylon bandage at the drum at the middle of the belt. PC18. Wind the bandage on top of the belt 1-2 times and cut with scissors PC19. Set tread end to end and join manually after the machine has pulled tread at the drum automatically PC20. The carcass and tread Package are joined automatically.









	PC21. Set the carcass at the flanges of the carcass drum, apply pressure and fasten
	to the tread package and stitch together.
	PC22. Ensure that material wastage is within tolerance limits
	PC23. Ensure that no rework or rejection is generated.
	PC24. Match the quality of output to company's product requirements
	PC25. Meet production quantity targets set for the operation
	PC26. Follow work instructions as laid down by the company
	PC27. Ensure Housekeeping and Safety in Tyre Building area.
	PC28. Do not wear loose and torn clothes during working hours
	PC29. Ensure that personal protective equipment like wearing protective gloves,
	safety shoes, Safety Glasses, safety mask etc)
Health & Safety	PC30. Use Forklift / Trolleys etc. while lifting heavy materials such as heavy
	finished tyres to avoid physical injury.
	PC31. Comply with other health, safety, environment guidelines, regulations etc in
	accordance with organizational SOP
Knowledge and Unders	standing (K)
	The user/individual on the job needs to know and understand:
	KA1. Proper tyre building process
	KA2. Implications of poorly prepared equipment, power failure etc
	KA3. Material disposal procedure, importance of appropriate disposal of material
	and implications of not following the material disposal procedure
	KA4. Quality and damage checks to be done and importance of the same
A.Organizational	KA5. Importance of identifying non-conforming material and storage of the same
Context	KA6. Risk and impact of not following defined procedures/work instructions
(Knowledge of the	KA7. Escalation matrix for reporting identified problems
company /	KA8. Types of documentation in organization and importance of the
organization and	same
its processes)	KA9. Records to be maintained and implications of non-maintenance of the same
	KA10.Importance of housekeeping (knowledge of 3S & 5S)
	KA11. Health, Safety and Environment guidelines, legislation and regulations as
	applicable
	KA12.Personal protection(Which protective equipment to be used and how)
	KA13.Impact of poor practices on health, safety and environment
	KA14. Potential hazards and actions to minimize the same
B. Technical	
	KB2. Cleanliness and safety requirements for commencing a tyre building
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B. Technical Knowledge	KA15. Escalation matrix and escalation procedure for reporting hazards The user/individual on the job needs to know and understand: KB1. Tyre Building Machine (TBM) & its operation KB2. Cleanliness and safety requirements for commencing a tyre building









	KB3. Troubleshooting- Knowledge of abnormalities and what response to make
	in case of abnormalities in equipment performance
	KB4. Importance of various components (like bead, ply, tread, sidewall etc)
	KB5. The role of protective railing, light barriers, safety mats and scanners which
	are present for the protection of operator and complete tyre building
	machinery.
	KB6. Health hazard due to inhalation of solvent
	KB7. Fire hazard due to flammable solvent
	KB8. Sequence of laying the ply and building the tyre
	KB9. Importance of process parameters (temperature, pressure etc) and impact
	KB10. Ability to take measurement using gauges and balance (for thickness, width and weight)
	KB11. Implications of not adhering to sequence of activities and operations
	KB12. Implications of delays in production process
	KB13. The process and importance of quality check ,including visual inspection and dimensional checks
	KB14. Effect of improper tyre building on performance of tyre
	KB15. Types of defects leading to rejections.
	KB16. Potential problems in the tyre building operation
	KB17. Indicators and reasons of potential problems
	KB18. Appropriate solutions to the problems encountered
	KB19. Units of measurement
	KB20. Response to emergencies e.g. Power failures ,fire and system failures
	KB21. The usage of different fire extinguishers
Skills (S)	
	Writing Skills
	The user/ individual on the job needs to know and understand how to:
	SA1. Construct simple sentences and express ideas clearly through written
	communication
	SA2. Fill up appropriate technical forms, process charts, activity logs in required
	format of the company
	SA3. Write simple letters, mails, etc
A. Core Skills/	SA4. Perform functional mathematical operations, including apply basic
Generic Skills	mathematical principles, such as numbers and space, and techniques such
	as 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
	and a fact of the









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









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

S7. seek clarification on problems from others

SB8. apply problem-solving approaches in different situations

SB9. 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 10. Interpret quality for sheet

SB 11. 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:

SB12. Proper collection of waste material

SB13. Identify defects in the material and communicate it at the earliest and

suggest improvements(if any) in process/material based on experience

SB14. Diagnose common problems in the machine based on visual inspection, sound , temperature etc

SB15. Suggest improvements(if any) in process based on experience

Critical Thinking

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

SB16. Handle equipment/rubber sheet SB6. seek clarification on problems from others

SB17. apply problem-solving approaches in different situations

SB18. refer anomalies to the line manager



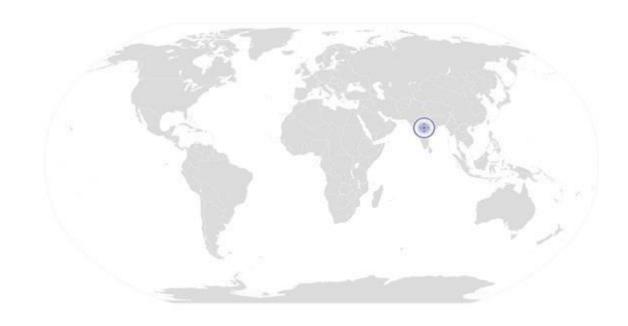






NOS Version Control

NOS Code	RSC / N 2002		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	04/06/13
Industry Sub-sector	Tyre	Last reviewed on	29/12/15
Occupation	Tyre building	Next review date	29/12/17



Back to QP

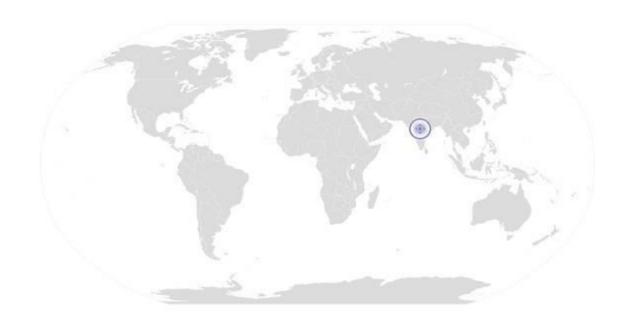








National Occupational Standard



Overview

This unit is about performing post tyre building activities for radial tyres







Post tyre building activity for radial tyre

RSC / N 2003		
Post tyre building activities for radial tyres		
This unit is about performing post tyre building activities for radial tyres		
This unit/task covers the following:		
Collecting green tyre/ marking		
Preparing tyre for curing		
Transporting tyre to painting/curing department		
PC) w.r.t. the Scope		
Criteria		
To be competent, the user/individual on the job must be able to		
PC1. Follow work instructions as laid down by the company		
PC2. Remove green tyre from the TBM and put on a trolley		
PC3. Transport tyre to painting section		
PC4. Spray paint tyre from inside and outside and dry in a hot chamber and allow to		
cool for definite time		
PC5. Remove tyre and transport to curing section for tyre curing		
PC6. Visually inspect tyre for defects		
PC7. Handover the equipment to the next operator in clean and good condition		
PC8. Dispose off waste material as per waste disposal procedures laid down by the		
organizational SOP		
PC9. Carry out tyre marking as per instructions laid down by the company (in terms		
of size, weight, colour etc).		
PC10.		
PC11. Send sample of specified product/batch number to lab for testing, if		
warranted		
PC12. Send sample of specified batch number to lab for testing		
PC13. Send sample in specified quantity to lab for testing		
PC14. Send sample in the specified form to lab for testing		
PC15. Send the remaining material to the designated storage area		
PC16. Ensure Housekeeping and Safety in Tyre Building area		
PC17. Do not wear loose and torn clothes during working hours		
PC18. Use Forklift / Trolleys etc. while lifting heavy materials such as heavy finished		
tyres to avoid physical injury.		
PC19. Ensure that personal protective equipment like wearing protective gloves,		









	safety shoes, Safety Glasses, safety mask etc PC20. Spray paint the tyre safely by using protective equipment to cover the face and other body parts PC21. Comply with other health, safety, environment guidelines, regulations etc in accordance with company procedure
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. Implications of poorly prepared equipment, power failure etc KA2. Material disposal procedure, importance of appropriate disposal of material and implications of not following the material disposal procedure KA3. Significance of batch marking KA4. Importance of identifying non-conforming product and storage of the same KA5. Risk and impact of not following defined procedures/work instructions KA6. Escalation matrix and procedure for reporting identified problems KA7. Types of documentation in organization and importance of the same KA8. Records to be maintained and implications of non-maintenance of the same KA9. Importance of housekeeping 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
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB15. Importance of various components (like bead, ply, tread, sidewall etc) on subsequent process and performance of the product KB16. Spray painting process for radial tyres. KB17. Implications of improper curing on tyres KB18. Batch marking techniques KB19. Implications of incorrect batch marking KB20. Implications of inappropriate waste disposal KB21. Type of defects leading to rejections. KB22. Indicators and reasons of problems encountered KB23. Units of measurement KB24. Colour and colour coding KB25. Use of instruments to check dimensions etc KB26. Responding to emergencies e.g. Power failures ,fire and system failures KB27. The usage of different fire extinguishers
Skills (S)	W. W Cl. W.
A. Core Skills/	Writing Skills









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Generic Skills	The user/ individual on the job needs to know and understand how to:
	SA1. Construct simple sentences and express ideas clearly through written communication
	SA2. Fill up appropriate technical forms, process charts, activity logs in required
	format of the company
	SA3. Write simple letters, mails, etc
	SA4. Perform functional mathematical operations, including apply basic
	mathematical principles, such as numbers and space, and techniques such as
	estimation and approximation, for practical purposes
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA5. Read and understand manuals, health and safety instructions, memos, reports
	job cards etc
	SA6. Read images, graphs, diagrams
	SA7. Understand the various coding systems as per company norms
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA8. Express statements, opinions or information clearly so that others can hear and understand
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	SA10. Communicate with supervisor
	SA11. Communicate with upstream and downstream teams
	SA12. Work in a team and other behavioral skills required to support the small group
	activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
	SA13. Practice honesty with respect to company property and time
	SA14. Communicate with people in a form and manner and using language that is
	open and respectful
	SA15. Resolve any difficulties in relationships with colleagues , or get help from an
	appropriate person, in a way that preserves goodwill and trust
	SA16. Take responsibility for completing one's own work assignment
	SA17. Take initiative to enhance/learn skills in ones's area of work
	SA18. The capacity to learn from experience in a range of settings and scenarios and
	the capacity to reflect on and analyse one's learning.
	SA19. Is open to new ways of doing things
	SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies

- 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

and take action to achieve them.

SA24. Be punctual









B.Professional Skills	Decision Making		
B.Professional Skills	The user/individual on the job needs to know and understand how to:		
	SB5. Take appropriate decisions regarding processing steps in view of changing quality and availability of raw materials and finished goods. SB9. Handle internal mixer, accessories		
	SB10. Handle rubber compound SB11. Handle chemicals		
	SB12. Handling of various types of material handling equipment like forklifts, trolleys SB6. 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		
	Train and Organize		
	The user/individual on the job needs to know and understand how to:		
	S7. seek clarification on problems from others		
	SB8. apply problem-solving approaches in different situations SB9. 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 10. Interpret quality for sheet		
	SB 11. 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: SB12. Proper collection of waste material		
	SB13. Identify defects in the material and communicate it at the earliest and suggest		
	improvements(if any) in process/material based on experience		
	SB14. Diagnose common problems in the machine based on visual inspection, sound , temperature etc		
	SB15. Suggest improvements(if any) in process based on experience		
	Critical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB16. Handle equipment/rubber sheet SB6. seek clarification on problems from others		
	SB17. apply problem-solving approaches in different situations		

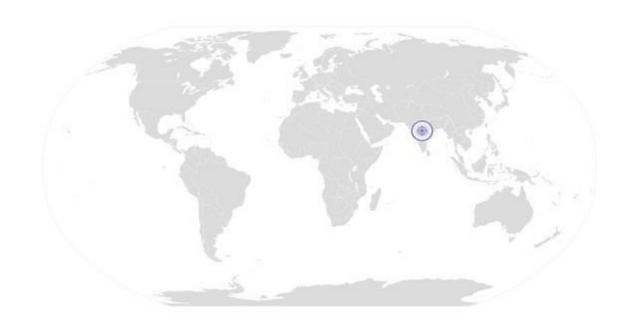








SB18. refer anomalies to the line manager





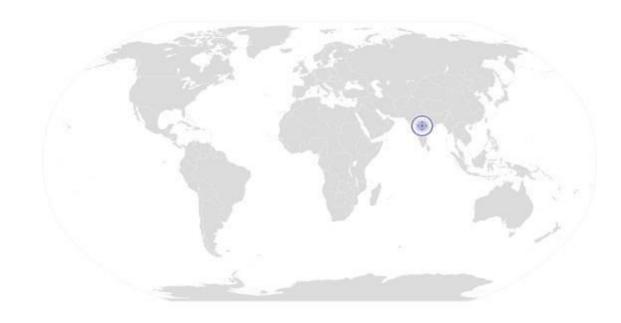






NOS Version Control

NOS Code	RSC / N 2003		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	04/06/13
Industry Sub-sector	Tyre	Last reviewed on	29/12/15
Occupation	Tyre building	Next review date	29/12/17

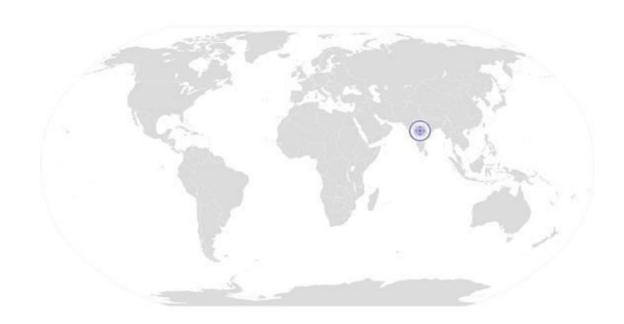


Back to QP









Overview

This unit is about carrying out housekeeping



National Occupational Standards To carry out housekeeping





		& ENTREPRENEURSHIP
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 (P	Performance Criteria (PC) w.r.t. the Scope	
Element	Performance Criteria	

	Preparing for housekeeping activities		
	Carry out housekeeping activitiesPost housekeeping activities		
Performance Criteria (Po			
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		



Notional Occupational Standards To carry out housekeeping





	& ENTREPRENEURSHIP			
	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 equipme			
	that were used to the right places making sure they are clean, safe and			
	securely stored			
	PC21. Dispose the waste garnered from the activity in an appropriate			
	manner			
	PC22. Dispose of used and un-used solutions according to manufacturer's			
	instructions, and clean the equipment thoroughly			
	mod decions, and decan the equipment thoroughly			
	DC22 Maintain schodules and records for bousekeening duty			
General	PC23. Maintain schedules and records for housekeeping duty			
	PC24. Replenish any necessary supplies or consumables			
Knowledge and Underst	anding (K)			
	The user/individual on the job needs to know and understand:			
	The user/mulvidual on the job freeds to know and understand.			
	KA1. The levels of hygiene required by workplace and why it is important to			
	maintain them during your work			
	KA2. How to inspect a work area to decide what cleaning it needs			
	KA3. Methods and materials that used for cleaning variety of surfaces			
	KA4. The types of cleansing agents that are not to be mixed together			
	KA5. The correct method for cleaning equipment and/or machinery used			
	during your work			
	KA6. The importance of personal protective equipment			
	KA7. Appropriate personal protective equipment for the work area, cleaning			
A Tachnical	equipment, tools, materials and chemicals used			
A. Technical	KA8. The correct sequence for cleaning the work area			
Knowledge	KA9. The time taken by the treatment to work			
	KA10. The time taken by the treatment to work KA10. The importance of following manufacturer's instructions on cleaning			
	agents			
	KA11. The most appropriate place to carry out test cleans and why this			
	should be done before applying treatments			
	KA12. The importance of applying treatments evenly and the effect of not doing this			
	KA13. Process of cleaning the surfaces without causing injury or damage			
	KA14. The method to check the treated surface and equipment on			
	completion of cleaning			
	KA15. Procedures for reporting any unidentified soiling			
	KA16. Procedures for disposing off waste			



National Occupational Standards To carry out housekeeping





	& ENTREPRENEURSHIP
	KA17. Procedures for disposing off or storing personal protective equipment
	KA18. Escalation procedures for soils or stains that could not be removed
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
A. Core Skills/ Generic	
Skills	Oral Communication (Listening and Speaking skills)
Skills	
	The user/individual on the job needs to know and understand how to:
	SA8. Express statements, opinions or information clearly so that others can
	hear and understand
	SA9. Respond appropriately to any queries
	SA10. Communicate with supervisor
	SA11. Communicate with upstream and downstream teams
	SA12. Work in a team and other behavioral skills required to support the
	·
	small group activities (Quality Circle, Cross Functional Team,
	Suggestion Scheme)
	SA13. Practice honesty with respect to company property and time
	SA14. Communicate with people in a form and manner and using language
	that is open and respectful
	SA15. Resolve any difficulties in relationships with colleagues , or get help
	from an appropriate person, in a way that preserves goodwill and
	trust
	SA16. Take responsibility for completing one's own work assignment
	SA17. Take initiative to enhance/learn skills in ones's area of work



National Occupational Standards To carry out housekeeping





	& ENTREPRENEURSHIP I
	SA18. The capacity to learn from experience in a range of settings and
	scenarios and the capacity to reflect on and analyse one's learning.
	SA19. Is open to new ways of doing things
	SA20. The capacity to envisage and articulate personal goals; to develop
	strategies and take action to achieve them.
	SA21. Avoid absenteeism
	SA22. Act objectively , rather than impulsively or emotionally when faced
	with difficult/stressful or emotional situations
	SA23. Work in disciplined factory environment
	SA24. Be punctual
B.Professional Skills	Decision Making
B.Professional Skills	The user/individual on the job needs to know and understand how to:
	SB1. Take appropriate decisions regarding processing steps in view of
	changing quality and availability of raw materials and finished goods.
	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
	SB8. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience
	SB8. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience Critical Thinking
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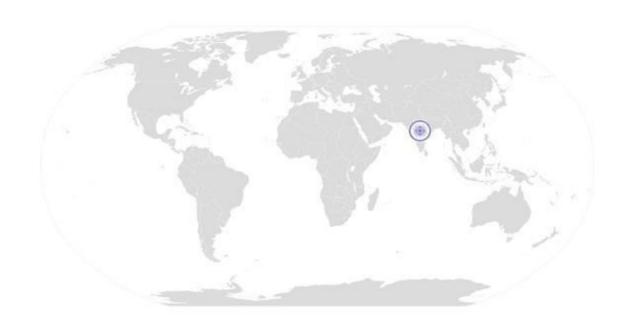


To carry out housekeeping





from others
SB10. apply problem-solving approaches in different situations
SB11. refer anomalies to the line manager





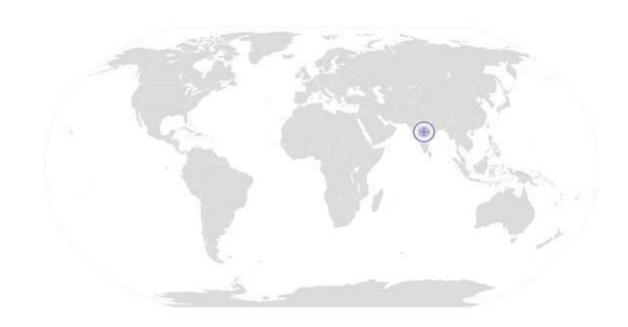






NOS Version Control

NOS Code	RSC / N 5001		
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Industry	Rubber Manufacturing	Drafted on	04/06/13
Industry Sub-sector	Tyre	Last reviewed on	29/12/15
Occupation	Tyre building	Next review date	29/12/17

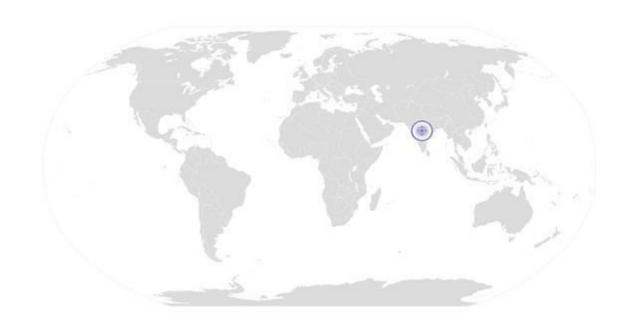












Overview

This unit is about reporting and documentation







To carry out reporting and documentation

Unit Code	RSC / N 5002
Unit Title	To carry out reporting and documentation
(Task)	
Description	This unit is about carrying out reporting and documentation
Scope	This unit/task covers the following:
	Reporting of data/problem/incidents etc
	Documentation
	Information Security
Performance Criteria (PC) w.r.t. the Scope
Element	Performance Criteria
Reporting	To be competent, the user/individual on the job must be able to: PC1. Report data/problems/incidents as applicable in a timely manner PC2. Report to the appropriate authority as laid down by the company PC3. Follow reporting procedures as prescribed by the company
Recording and Documentation	PC4. Identify documentation to be completed relating to one's role PC5. Record details accurately an appropriate format PC6. Complete all documentation within stipulated time according to company procedure PC7. Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly PC8. Make sure documents are available to all appropriate authorities to inspect
Information Security	PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures PC10. Inform the appropriate authority of requests for information received
Knowledge and Unders	standing (K)
A. Reporting	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







To carry out reporting and documentation

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







To carry out reporting and documentation

SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. SA21. Avoid absenteeism SA22. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual Decision Making The user/individual on the job needs to know and understand how to: SB1. Take appropriate decisions regarding processing steps in view of changing quality and availability of raw materials and finished goods. 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
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35 3. 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
Critical Thinking
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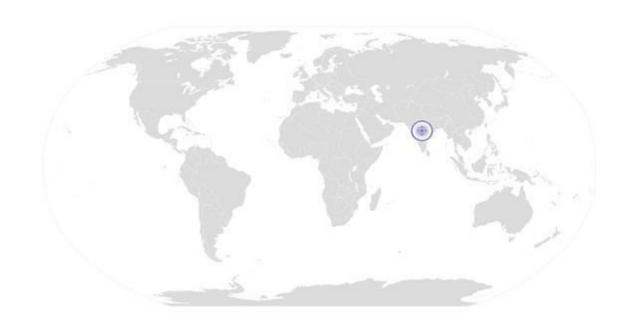






To carry out reporting and documentation

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





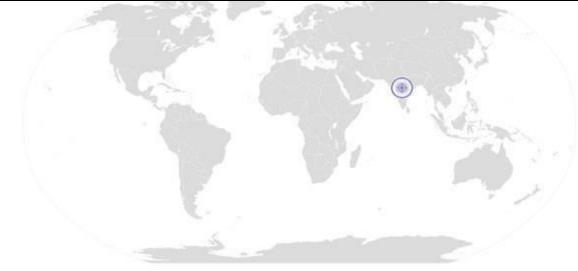






NOS Version Control

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Industry	Rubber Manufacturing	Drafted on	04/06/13
Industry Sub-sector	Tyre	Last reviewed on	29/12/15
Occupation	Tyre building	Next review date	29/12/17



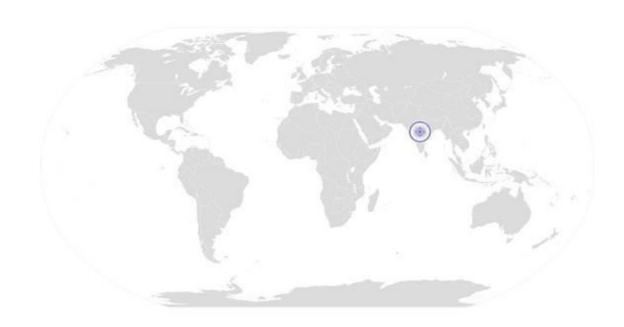








National Occupational Standard



Overview

This unit is about carrying out quality checks



NOS National Occupational Standards





To carry out quality checks

Unit Code	RSC / N 5003		
Unit Title	To community supplies about		
(Task)	To carry out quality checks		
Description	This unit is about carrying out quality control activities		
Scope	This unit/task covers the following: Carrying out quality checks to identify problems Take corrective actions Reporting the results		
Performance Criteria (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 Understanding (K)









	The user/individual on the job needs to know and understand:
	KA1. The importance of quality control procedures KA2. Relevance and importance of activities and how they contribute to
	the achievement of the quality objectives,
	KA3. Proper procedure for selecting the material/product and performing quality checks without affecting the material
	KA4. Availability of work instructions, as necessary,
	KA5. Characteristics of the product/material
	KA6. Use of suitable equipment
Technical Knowledge	KA7. Availability and use of monitoring and measuring devices,
	KA8. Requirements of records
	KA9. Importance of maintaining accurate up-to-date records
	KA10. The need to report within the stipulated time
	KA11. Implications of inaccurate measuring and testing instruments and
	equipment
	KA12. The cost of non-conformance to quality standards
	KA13. Implications (impact on internal/external customers) of defective
	products, materials or components
Skills (S)	
Skills (S)	Maritin of Chille
Skills (S)	Writing Skills
Skills (S)	The user/ individual on the job needs to know and understand how to:
Skills (S)	The user/ individual on the job needs to know and understand how to: SA1. Construct simple sentences and express ideas clearly through written
Skills (S)	The user/ individual on the job needs to know and understand how to: SA1. Construct simple sentences and express ideas clearly through written communication
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Skills (S)	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
Skills (S)	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
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Skills (S) 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
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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) SA13. Practice honesty with respect to company property and time SA14. Communicate with people in a form and manner and using language that is open and respectful SA15. Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust SA16. Take responsibility for completing one's own work assignment SA17. Take initiative to enhance/learn skills in ones's area of work SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning. SA19. Is open to new ways of doing things SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them. SA21. Avoid absenteeism SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations SA23. Work in disciplined factory environment SA24. Be punctual **Decision Making B.Professional Skills** The user/individual on the job needs to know and understand how to: SB1. Take appropriate decisions regarding processing steps in view of changing quality and availability of raw materials and finished goods. **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**









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RSC / N	5003

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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

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



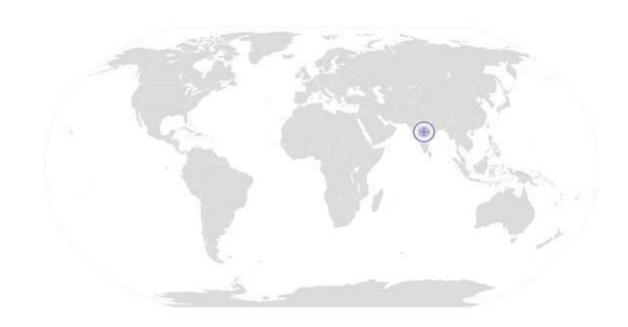






NOS Version Control

NOS Code	RSC / N 5003		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	04/06/13
Industry Sub-sector	Tyre	Last reviewed on	29/12/15
Occupation	Tyre building	Next review date	29/12/17











National Occupational Standard

Overview

This unit is about problem identification and escalation



NOS lational Occupational Standard





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









To carry out problem identification and escalation

	PC14. Report/document problem and corrective action in an appropriate manner
	PC15. Monitor corrective action
	PC16. Evaluate implementation of corrective action taken to determine if the
	problem has been resolved
	PC17. Ensure that corrective action selected is viable and practical
	PC18. Ensure that correct solution is identified to an identified problem
	PC19. Take corrective action for problems identified according to the company
	procedures
	PC20. Ensure that no delays are caused as a result of failure to take necessary action
	, , , , , , , , , , , , , , , , , , ,
	PC21. Escalate problem as per laid down escalation matrix
5 11 5 1	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 Under	standing (K)
	The user/individual on the job needs to know and understand:
	KA1 Indicators of analysms
	KA1. Indicators of problems
	KA2. The working of the equipment and accessories (if applicable)
	KA3. The impact of operations on the user and equipment(if applicable)
	KA4. The impact of operations on the final product (if applicable)
	KA5. The effect of not rectifying the problems identified
	KA6. The reason for the occurrence of previous problems
A. Technical	KA7. Measures and steps that have been taken to address the previous problems
Knowledge	KA8. Possible solutions for various problems
Kilowicuge	KA9. The correct method for carrying out corrective actions outlined for each
	problem
	KA10. The impact of not carrying out the corrective actions
	KA11. The documentation procedure for recording such problems, as per company
	norms
	KA12. The escalation matrix for reporting problems
	KA13. Escalation matrix for reporting unresolved problems
	KA14. The time frame within which in which each problem needs to be escalated
	KA15. Manner in which each problem needs to be escalated
	<u> </u>
Skills (S)	
	Writing Skills
Δ Core Skills/	The user/ individual on the job needs to know and understand how to:
A. Core 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. 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
•	The user/ individual on the job needs to know and understand how to: SA1. Construct simple sentences and express ideas clearly through written



NOS lational Occupational Standards





To carry out problem identification and escalation

SA3. V	Vrite	simple	letters,	mails,	etc
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SA4. Perform functional mathematical operations, including apply basic mathematical principles, such as numbers and space, and techniques such as estimation and approximation, for practical purposes

Reading Skills

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

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

Oral Communication (Listening and Speaking skills)

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

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

Decision Making









To carry out problem identification and escalation

301	To carry out problem rachemedation and established
B.Professional Skills	The user/individual on the job needs to know and understand how to:
	SB1. Take appropriate decisions regarding processing steps in view of changing quality and availability of raw materials and finished goods.
	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
	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
	I

SB10. apply problem-solving approaches in different situations

SB11. refer anomalies to the line manager



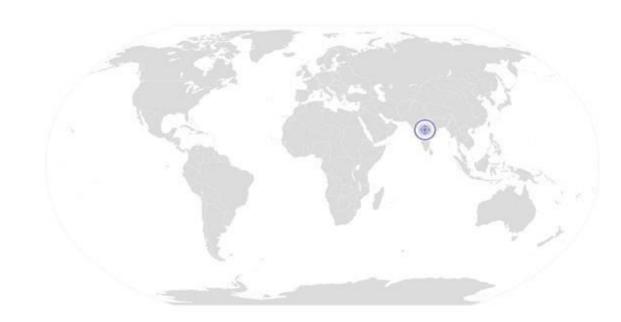






NOS Version Control

NOS Code	RSC / N 5004		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	04/06/13
Industry Sub-sector	Tyre	Last reviewed on	29/12/15
Occupation	Tyre building	Next review date	29/12/17



CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role: Radial Building Operator **Qualification Pack Code:** RSC/ Q 0520

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	Elements	Performance Criteria	Total	Theory	Practical
		PC1. Ensure that tyre building machine is clean	3	3	0
		PC2. Ensure that building drum is clean	3	3	0
		PC3. Ensure that building drum of the correct size is in place	3	3	0
		PC4. Set parameters for the building machine as per job card	3	3	0
1. RSC / N 2001 Prepare tyre building	Equipment readiness	PC5. Follow equipment preparation process as per company requirements	3	3	0
		PC6. Ensure that no delays are caused as a result of improper preparation and failure to identify problems.	3	3	0
		PC7. Keep other building materials & tools such as drum cement, inner liner, sidewall, plies, bead, tyre chord, belts, stitchers, knife and tread ready	2	2	0
	Raw material	PC8. Ensure that material to be fed is approved by laboratory	6	2	4
	appropriateness	PC9. Collect all materials required for the batch	6	2	4

		PC10. Match the batch code of each material with the batch code on the job schedule given by the planning department	7	3	4
		PC11. Ensure that components such as bead, freshening solvent and swab are ready	6	2	4
		PC12. Ensure that other materials are in the correct quantity	6	2	4
		PC13. Ensure, by visual inspection, that raw material is of desired quality (free of contamination etc.)	4	2	2
		PC14. Ensure that no delays are caused as a result of improper preparation and failure to identify problems	2	2	0
		PC15. Housekeeping and Safety in Tyre Building are	6	2	4
		PC16. Do not wear loose and torn clothes during working hours	6	2	4
		PC17. Ensure no spillage of Naphtha or Solvent	6	2	4
		PC18. Use Forklift / Trolleys etc. while lifting heavy materials such as heavy finished tyres to avoid physical injury.	6	2	4
	Health & Safety	PC19. Ensure use of personal protective equipment like wearing protective gloves, safety shoes, Safety Glasses, safety mask etc	7	3	4
		PC20. Adhere to all the other safety norms (like wearing protective gloves etc)	6	2	4
		PC21. Comply with other health, safety, environment guidelines, regulations etc in accordance with company procedure	6	2	4
			100	50	50
2. RSC / N 2002 Build radial	Raw material appropriateness	PC1. Ensure, by visual inspection, that tyre building material is of desired quality (free of contamination etc.)	2	2	0
pneumatic tyre	64 14 15 15 15 15 15 15 15 15 15 15 15 15 15	PC2. Ensure that batch size of tyre building material is as per specified quantity	2	2	0

	PC3. Plan batch sequence in shifts based on raw material availability/rejection to maximize output	2	2	0
	PC4. Position bead joint correctly for proper tyre balance.	4	2	2
	PC5. Set inner liner at the drum and rotate around the drum one turn	4	2	2
	PC6. Cut joint with a hot knife	4	2	2
	PC7. Set inner liner end to end so that the diagonal cutting seam is at the top	4	2	2
	PC8. Fasten the ends together manually	4	2	2
	PC9. Set cord ply ends at the drum and rotate the drum one turn.	4	2	2
	PC10. Cut the cord ply manually and join with 2 - 5 overlapping cords	4	2	2
	PC11. Press the joint carefully at the edges	4	2	2
Operation	PC12. Mount bead wire and turn- up is done automatically.	4	2	2
	PC13. Turn edges with bladders over the beads and stitch tightly.	4	2	2
	PC14. Set sidewall ends at the drum and rotate around the drum one turn.	4	2	2
	PC15. Set sidewall end to end and fasten the seam together manually.	4	2	2
	PC16. Tread Package Manufacturing: Join belt by cutting it with a hot knife and setting the ends together at the belt drum.	4	2	2
	PC17. Set end of the nylon bandage at the drum at the middle of the belt.	4	2	2
	PC18. Wind the bandage on top of the belt 1-2 times and cut with scissors	4	2	2
	PC19. Set tread end to end and join manually after the machine has pulled tread at the drum	4	2	2

		automatically			
		PC20. The carcass and tread	4	2	2
		Package are joined automatically.			
		PC21. Set the carcass at the			
		flanges of the carcass drum, apply pressure and fasten to the tread	4	2	2
		package and stitch together.			
		PC22. Ensure that material			
		wastage is within tolerance limits	4	2	2
		PC23. Ensure that no rework or			
		rejection is generated.	4	2	2
		PC24. Match the quality of output			
		to company's product	2	2	0
		requirements			
		PC25. Meet production quantity	2	2	0
		targets set for the operation	2	2	0
		PC26. Follow work instructions as	2	2	0
		laid down by the company	2	2	U
		PC27. Ensure Housekeeping and	2	2	0
		Safety in Tyre Building area.			
		PC28. Do not wear loose and torn	2	2	0
		clothes during working hours			
		PC29. Ensure that personal			
		protective equipment like	2	2	0
		wearing protective gloves, safety shoes, Safety Glasses, safety mask		2	0
	Health & Safety	etc)			
	Ticaltii & Salety	PC30. Use Forklift / Trolleys etc.			
		while lifting heavy materials such			
		as heavy finished tyres to avoid	1	1	0
		physical injury.			
		PC31. Comply with other health,			
		safety, environment guidelines,	1	1	_
		regulations etc in accordance with	1 1	1	0
		organizational SOP			
			100	60	40
		PC1. Follow work instructions as	1	Λ	0
		laid down by the company	4	4	0
		PC2. Remove green tyre from the	14	4	10
3. RSC / N 2003		TBM and put on a trolley	14	4	10
Post tyre building	Operation	PC3. Transport tyre to painting	14	4	10
activity for radial	o peration	section	17		10
tyre		PC4. Spray paint tyre from inside			
		and outside and dry in a hot	14	4	10
		chamber and allow to cool for			
		definite time			

	PC5. Remove tyre and transport to curing section for tyre curing	2	2	0
	PC6. Visually inspect tyre for defects	2	2	0
	PC7. Handover the equipment to the next operator in clean and good condition	2	2	0
Material disposal	PC8. Dispose off waste material as per waste disposal procedures laid down by the organizational SOP	3	3	0
Batch Marking	PC9. Carry out tyre marking as per instructions laid down by the company (in terms of size, weight, colour etc).	3	3	0
	PC10.	0	0	0
	PC11. Send sample of specified product/batch number to lab for testing, if warranted	2	2	0
	PC12. Send sample of specified batch number to lab for testing	2	2	0
Sampling	PC13. Send sample in specified quantity to lab for testing	2	2	0
	PC14. Send sample in the specified form to lab for testing	2	2	0
	PC15. Send the remaining material to the designated storage area	2	2	0
	PC16. Ensure Housekeeping and Safety in Tyre Building area	2	2	0
	PC17. Do not wear loose and torn clothes during working hours	6	2	4
	PC18. Use Forklift / Trolleys etc. while lifting heavy materials such as heavy finished tyres to avoid physical injury.	6	2	4
Health & Safety	PC19. Ensure that personal protective equipment like wearing protective gloves, safety shoes, Safety Glasses, safety mask etc	6	2	4
	PC20. Spray paint the tyre safely by using protective equipment to cover the face and other body parts	6	2	4
	PC21. Comply with other health, safety, environment guidelines,	6	2	4

		regulations etc in accordance with			
		company procedure			
			100	50	50
		PC1. Inspect the area while taking	3	2	0
		into account various surfaces PC2. Identify the material		3	0
		requirements for cleaning the			
		areas inspected, by considering	3		
		risk, time, efficiency and type of			
		stain		3	0
		PC3. Ensure that the cleaning			
		equipment is in proper working	3		
		condition		3	0
		PC4. Select the suitable			
		alternatives for cleaning the areas in case the appropriate			
		equipment and materials are not	3		
	Pre	available and inform the			
	housekeeping	appropriate person		3	0
	activities	PC5. Plan the sequence for			
		cleaning the area to avoid re-	3		
		soiling clean areas and surfaces		3	0
		PC6. Inform the affected people	2		
4. RSC / N 5001 To		about the cleaning activity		2	0
Carry Out		PC7. Display the appropriate	2		
Housekeeping		signage for the work being conducted	3	3	0
		PC8. Ensure that there is			U
		adequate ventilation for the work	3		
		being carried out		3	0
		PC9. Wear the personal			
		protective equipment required	3		
		for the cleaning method and		_	
		materials being used		3	0
		PC10. Use the correct cleaning method for the work area, type of	3		
		soiling and surface	3	3	0
		PC11. Carry out cleaning activity	_		
		without disturbing others	3	3	0
		PC12. Deal with accidental			
	Operations	damage, if any, caused while	3		
		carrying out the work		3	0
		PC13. Report to the appropriate	_		
		person any difficulties in carrying	3	2	0
		out your work		3	0
		PC14. Identify and report to the appropriate person any additional	3	3	0
		appropriate person any additional		3	U

		cleaning required that is outside			
		one's responsibility or skill			
		PC15. Ensure that there is no oily			
		substance on the floor to avoid	9		
		slippage		3	6
		PC16. Ensure that no scrap			
		material is lying around	9	3	6
		PC17. Maintain and store		<u> </u>	-
		housekeeping equipment and	3		
		supplies	5	3	0
		PC18. Follow workplace		3	0
		procedures to deal with any			
		1 -	3		
		accidental damage caused during		2	0
	Deat	the cleaning process		3	0
	Post	PC19. Ensure that, on completion			
	housekeeping 	of the work, the area is left clean	8	_	6
	activities	and dry and meets requirements		2	6
		PC20. Return the equipment,			
		materials and personal protective			
		equipment that were used to the	3		
		right places making sure they are			
		clean, safe and securely stored		3	0
		PC21. Dispose the waste garnered			
		from the activity in an	9		
		appropriate manner		3	6
		PC22. Dispose of used and un-			
		used solutions according to			
		manufacturer's instructions, and	9		
		clean the equipment thoroughly		3	6
	_	PC23. Maintain schedules and			
		records for housekeeping duty	3	3	0
	General	PC24. Replenish any necessary			
		supplies or consumables	3	3	0
		The first of the f	100	70	30
		PC1. Report	100	70	30
		data/problems/incidents as	12		
		applicable in a timely manner	14	8	4
				O	4
	Reporting	PC2. Report to the appropriate	12		
5. RSC / N 5002 To Carry Out		authority as laid down by the	12		A
		company		8	4
Reporting And		PC3. Follow reporting procedures	12	•	•
Documentation		as prescribed by the company		8	4
		PC4. Identify documentation to			
	Recording and	be completed relating to one's	10		
	Documentation	role		6	4
	Documentation	PC5. Record details accurately an	16		
		appropriate format	10	6	10

		PC6. Complete all documentation			
		within stipulated time according	14	_	
		to company procedure		4	10
		PC7. Ensure that the final document meets with the			
		requirements of the persons who	6		
		requested it or make any	0		
		amendments accordingly		4	2
		PC8. Make sure documents are		7	
		available to all appropriate	6		
		authorities to inspect		4	2
		PC9. Respond to requests for			
		information in an appropriate			
		manner whilst following	6		
	Information	organizational procedures		6	0
	Security	PC10. Inform the appropriate			
		authority of requests for	6		
		information received		6	0
			100	60	40
		PC1. Ensure that total range of			
		checks are regularly and	24		
	Inspection	consistently performed		10	14
	Пэрссион	PC2. Use appropriate measuring			
		instruments, equipment, tools,	24		
		accessories etc ,as required		10	14
		PC3. Identify non-conformities to	6		
		quality assurance standards		4	2
		PC4. Identify potential causes of	_		
		non-conformities to quality assurance standards	5	3	2
				3	2
		PC5. Identify impact on final product due to non-conformance	5		
6. RSC / N 5003	Analysis	to company standards		3	2
To Carry Out	, alary 313	PC6. Evaluating the need for			_
Quality Checks		action to ensure that problems do	6		
		not recur		4	2
		PC7. Suggest corrective action to	_		
		address problem	5	3	2
		PC8. Review effectiveness of	-		
		corrective action	5	3	2
		PC9. Interpret the results of the	4		
		quality check correctly	4	4	0
		PC10. Take up results of the			
	Reporting	findings with QC in	3		
		charge/appropriate authority.		3	0
		PC11. Take up the results of the	3		
		findings within stipulated time		3	0

		DC12 Decord of requite of action		1	
		PC12. Record of results of action taken	3	3	0
				3	U
		PC13. Record adjustments not covered by established	3		
		procedures for future reference	3	3	0
		PC14. Review effectiveness of		3	U
		action taken	2	2	0
		PC15. Follow reporting			U
		procedures where the cause of	2		
		defect cannot be identified	2	2	0
		derect cannot be identified	100		_
		DC4 Ideatify defeate findings on a	100	60	40
		PC1. Identify defects/indicators of	7	4	2
		problems		4	3
		PC2. Identify any wrong practices	6		2
		that may lead to problems		3	3
		PC3. Identify practices that may	6		2
		impact the final product quality		3	3
	Problem	PC4. Identify if the problem has	5		
	Identification	occurred before		3	2
		PC5. Identify other operations	_		
		that might be impacted by the	6		_
		problem		4	2
		PC6. Ensure that no delays are	_		
		caused as a result of failure to	5	_	_
		escalate problems		3	2
		PC7. Take appropriate materials			
		and sample, conduct tests and			
7. RSC / N 5004 To		evaluate results to establish	8		
Carry Out Problem		reasons to confirm suspected			
Identification And		reasons for non-conformance		_	_
Escalation		(where required)		5	3
		PC8. Consider possible reasons	8	_	_
		for identification of problems		5	3
		PC9. Consider applicable			
		corrections and formulate	3		0
	Necessary	corrective action		3	0
	Action	PC10. Formulate action in a	3		0
		timely manner		3	0
		PC11. Communicate	_		
		problem/remedial action to	7	_	_
		appropriate parties		5	2
		PC12. Take corrective action in a	2	2	
		timely manner		2	0
		PC13. Take corrective action for			
		problems identified according to	2	2	
		the company procedures		2	0
		PC14. Report/document problem	8	5	3

and corrective action in an appropriate manner PC15. Monitor corrective action PC16. Evaluate implementation of corrective action taken to determine if the problem has been resolved PC17. Ensure that corrective action selected is viable and practical PC18. Ensure that correct solution is identified to an identified 2 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 PC23. Escalate the problem within appropriate manner PC24. Ensure that no delays are caused as a result of failure to appropriate manner PC25. Escalate the problem within appropriate manner PC26. Ensure that no delays are caused as a result of failure to appropriate manner PC26. Ensure that no delays are caused as a result of failure to appropriate manner PC27. Escalate the problem in an appropriate manner PC28. Escalate the problem in an appropriate manner PC29. Ensure that no delays are caused as a result of failure to appropriate manner PC29. Ensure that no delays are caused as a result of failure to appropriate manner PC29. Ensure that no delays are caused as a result of failure to appropriate manner PC29. Ensure that no delays are caused as a result of failure to appropriate manner PC29. Ensure that no delays are caused as a result of failure to appropriate manner PC29. Ensure that no delays are caused as a result of failure to appropriate manner	 		and corrective action in an	I	j	j
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