



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- Bicycle/Rickshaw Tyre Building Operator - TBM

SECTOR: RUBBER INDUSTRY

SUB-SECTOR: Tyre

OCCUPATION: Tyre Building

REFERENCE ID: RSC/ Q 0502

ALIGNED TO: NCO-2004/NIL

Brief Job Description: A tyre building operator is responsible to build the bicycle/rickshaw tyre by assembling the different components on the tyre building .chucks

Personal Attributes: This job requires the individual to be systematic, confident and energetic. He must be able to handle multiple tasks and strive to achieve the set objectives on time with best quality. He should be fit, tall and have a strong built. He should be able to work independently and be comfortable in performing laborious work.



रामेल जाला

Qualifications Pack For Bicycle/Rickshaw Tyre Building Operations a ENTREPRENEURSHIP

Qualifications Pack Code	RSC/ Q 0502 Bicycle/Rickshaw Tyre Building Operator : TBM		
Job Role			
Credits(NSQF)	4	Version number	1.0
Sector	Rubber	Drafted on	02/12/14
Sub-sector	Tyre	Last reviewed on	02/12/14
Occupation	Tyre Building	Next review date	02/12/15
NSQC Clearnace on	18/06/2015		

Job Role	Bicycle/Rickshaw Tyre Building Operator : TBM	
Role Description	A tyre building operator is responsible to build the bicycle/rickshaw tyre by assembling the different components on the tyre building chucks	
NSQF level	4	
Minimum Educational Qualifications*	Class X/ITI	
Maximum Educational Qualifications*	ITI/Graduate in Science	
Training (Suggested but not mandatory)	Training on tyre building on drums/rings	
Minimum Job Entry Age	18 years	
Experience	Worked as a semi-skilled helper for minimum 6 months in the same role.	
Applicable National Occupational Standards (NOS)	Compulsory:1.RSC/ N 0513 (Prepare building machine and collect components)2.RSC/ N 0514 (Build bicycle/rickshaw TBM tyre)3.RSC/ N 0515 (Perform post- tyre building activities)4.RSC/ N 5001 (To carry out housekeeping)5.RSC/ N 5002 (To carry out reporting and documentation)6.RSC/ N 5003 (To carry out quality checks)7.RSC/ N 5004 (To carry out problem identification and escalation)Optional:8.	
Performance Criteria	As described in the relevant OS units	



Qualifications Pack For Bicycle/Rickshaw Tyre Building Operatic & ENTREPRENEURSHP



सन्धमेच जवते

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	Qualifications Pack Code is a unique reference code that identifies a	
Code	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	Knowledge and Understanding are statements which together specify the	
Understanding	technical, generic, professional and organizational specific knowledge that an	
0	individual needs in order to perform to the required standard.	
Organizational Context	Organizational Context includes the way the organization is structured and	
0	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	Core Skills or Generic Skills are a group of skills that are key to learning and	
Skills	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.	

Definitions





National Occupational Standard



Overview

This unit is about preparing the building machine and collecting components for building bicycle/rickshaw TBM tyre.









Netional Occupational Standards Prepare building machine and collect components

_/	Unit Code	RSC / N 0513
L	Unit Title (Task)	Prepare building machine and collect components
	Description	This unit is about preparing the building machine and collecting components for building bicycle/rickshaw TBM tyre.
	Scope	This unit/task covers the following:
		Prepare building machine
		 Collect all the components required for building bicycle/rickshaw green tyre Encure housekeeping and safety in tyre building area
		Ensure housekeeping and safety in tyre building area
	Performance Criteria (F	PC) w.r.t. the Scope
	Element	Performance Criteria
		To be competent, the user/individual on the job must be able to
	Equipment readiness	 PC1. Ensure that the tools and equipments required for tyre building are clean and ready to use. PC2. Follow machine and equipment preparation process as per SOP PC3. Check if the stitchers are functional and have adequate specified pressures as required by specification PC4. Make the correct building drum available
		 PC5. Ensure that the chuck on which tyre is built is available and set for the correct width PC6. Ensure that no delays are caused as a result of improper preparation and failure to identify problems.
	Raw material appropriateness	 PC1. Ensure the availability of all the components PC2. Check tags , markings , date and shift to ensure correctness of codes and the use of only within age components made PC3. Ensure that the component dimensions are as per the specification PC4. Check if all the beads are marked as required for facilitating assembling in the sequence
	Health & Safety	 PC1. Ensure the use of certified tools and equipments for tyre building PC2. Avoid wearing loose shirt PC3. Adhere to all safety norms (such as wearing protective gloves, mask, earplugs and safety shoes). PC4. Avoid spillage and in case of spillage occur, follow safety measures as laid down by safety department PC5. Comply with health, safety, environment guidelines and regulations in









ABBER BRILL DEVELOPMENT COUNCEL ASC / N 0513	Netional Occupational Standards Prepare building machine and collect components Prepare building machine and collect components
	accordance with international/national standards or the organizational standards.
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 tools, equipment and components. KA2. Importance of identifying non-conforming materials and their storage. KA3. Risk and impact of not following defined procedures/work instructions. KA4. Escalation matrix for reporting identified problems KA5. Types of documentation in organization and importance of the same KA6. Records to be maintained and the implications of their non-maintenance. KA7. Importance of housekeeping activities. KA8. Health, safety and environment guidelines, legislation and regulations as 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 them. KA12.The escalation matrix and procedures for reporting hazards. KA13. Importance of FIFO and good shop floor practices (for example, 5S). KA14.Impact of various practices on cost, quality, productivity, delivery and safety. KA15.Handover/Takeover of the equipment/work area as per the organizational SOP.
B. Technical Knowledge	 The user/individual on the job needs to know and understand: KB1. Processing with building machine and various components of TBM tyre building KB2. Proper handling of chucks KB3. Working of the electronic gadgets provided on the building machine panel KB4. Adequate understanding on setting the widths and selection of rings and components for the building of desired size/s. KB5. Importance of communicating with electrical and mechanical engineers /technicians in case of requirements of trouble shooting defective equipment KB6. Stitchers and their settings in tyre building KB7. Setting correct spacing width on building rings KB8. Setting of stitcher pressure and its impact KB9. Sequential application of components (beads, ply and tread) and its impact if done incorrectly KB10. Impact on performance due to wrong application of components during tyre

KB10. Impact on performance due to wrong application of components during tyre building KB11. Implication of poor off set application of beads and its effect on cured tyre

- KB12. Proper usage of tread, chafer and side wall and its effect on cured tyre
- KB13. Importance of poor and wrinkled ply wound on the bead rings
- KB14. Effect of wrong dimension of the components









Prepare building machine and collect components	& ENTREPR
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	 KB15. Various abnormalities and suitable response for abnormalities in equipment performance. KB16. Implications of delays in the preparation process. KB17. Types of defects leading to rejections and their indicators, reasons and possible solutions. KB18. Cleanliness and safety requirements for commencing building operation. KB19. Units of measurement. KB20. Response to emergencies, for example, power failures, fire, system failures, spillages and manual intervention to avoid disasters. KB21. Knowledge of appropriate batch sizes with respect to appropriate component.
	KB22. Basic arithmatic, geometry, electronics, physics and chemistry
Skills (S)	Writing Skills
A. Core Skills/ Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. Construct simple sentences and express ideas clearly through written communication SA2. Fill up appropriate activity logs in required format of the company SA3. Write simple letters, mails, etc and prepare tags SA4. Perform functional mathematical operations Reading and Understanding Skills The user/individual on the job needs to know and understand how to: SA5. Read and understand manuals, health and safety instructions, memos, reports, job cards etc SA6. Read images, graphs, diagrams SA7. Understand the various coding systems as per company norms Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to:
	 SA8. Express statements, opinions or information clearly so that others can hear and understand SA9. Respond appropriately to any queries SA10. Communicate with supervisor SA11. Communicate with upstream and downstream teams SA12. Work in a team and other behavioral skills required to support the small group activities









Prepare building machine and collect components

	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
	Material and Equipment Handling
	The user/individual on the job needs to know and understand how to:
	The user/individual on the job needs to know and understand how to: SB1. Handle building machine, chucks s and other assessory equipments used in
	The user/individual on the job needs to know and understand how to: SB1. Handle building machine, chucks s and other assessory equipments used in building process.
	 The user/individual on the job needs to know and understand how to: SB1. Handle building machine, chucks s and other assessory equipments used in building process. SB2. Handle the components used in tyre building.
	 The user/individual on the job needs to know and understand how to: SB1. Handle building machine, chucks s and other assessory equipments used in building process. SB2. Handle the components used in tyre building. SB3. Handling of various types of material handling equipment like trolleys, chain
 Professional Skills 	 The user/individual on the job needs to know and understand how to: SB1. Handle building machine, chucks s and other assessory equipments used in building process. SB2. Handle the components used in tyre building. SB3. Handling of various types of material handling equipment like trolleys, chain hoists etc
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B. Professional Skills	 The user/individual on the job needs to know and understand how to: SB1. Handle building machine, chucks s and other assessory equipments used in building process. SB2. Handle the components used in tyre building. SB3. Handling of various types of material handling equipment like trolleys, chain hoists etc 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. Analytical Thinking The user/individual on the job needs to know and understand how to:
3. Professional Skills	 The user/individual on the job needs to know and understand how to: SB1. Handle building machine, chucks s and other assessory equipments used in building process. SB2. Handle the components used in tyre building. SB3. Handling of various types of material handling equipment like trolleys, chain hoists etc 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. Analytical Thinking The user/individual on the job needs to know and understand how to: SB5. Diagnose common problems in the building machine based on visual









Prepare building machine and collect components

NOS Version Control

NOS Code	RSC / N 0513		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	02/12/14
Industry Sub-sector	Tyre	Last reviewed on	02/12/14
Occupation	Tyre Building	Next review date	02/12/15



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National Occupational Standard



Overview

This unit about building bicycle/rickshaw TBM tyre.









Unit C Unit T (Task) Descr Scope Perfo Eleme

Unit Code	RSC / N 0514		
Unit Title	Build bicycle/rickshaw TBM tyre		
(Task)			
Description	This unit is about building bicycle/rickshaw TBM tyre.		
Scope	 This unit/task covers the following: Ensure housekeeping and safety in tyre building area. Consolidate components on the building drum as per guidelines issued by the technical Remove the green tyre from the drum 		
Performance Criteria (F	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. Ensure that all the components required for tyre building are available as per the specification and schedule. PC2. Check the component for suitability (appearance and other quality checks) PC3. Ensure drum paint and solvent for freshening is available 		
Operation	 PC1. Follow sequence of consolidating components as per guidelines issued by the technical PC2. Place bead on grooves on either side of the chuck PC3. Apply ply spirally over the bead rings at a specified bais angle ensuring beads are well covered and the ends stitched PC4. Apply stitchers and appropriate stitching pressures for proper and uniform stitching of treads with the ply/plies PC5. Ensure that there are no air traps at the bead area PC6. Release the tyre after tyre building is over PC7. Use solvent to freshen the ply or tread if they are of low tack PC8. Inspect the green tyre for blemishes and air pockets 		
Health & Safety	 PC9. Maintain safe distance from rotating drum PC10. Avoid wearing loose shirt PC11. Minimal usage of solvent PC12. Adhere to all safety norms (such as wearing protective gloves, masks and earplugs) PC13. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards. 		









RSC / N 0514	Build Bicycle/Rickshaw TBM Tyre	& ENTREPRENEURSHIP	88		
Knowledge and Understanding (K)					
A. Organizational	The user/individual on the job needs to know and u	inderstand:			
Context	KA1. Building operation and its importance.				
(Knowledge of	KA2. Implications of poorly prepared material and	d power failures.			
the company/	KA3. The material disposal procedure, importance of appropriate disposal of				
organization and	material and implications of not following the material disposal procedure.				
its processes)	KA4. How to conduct quality and damage checks and their importance.				
	KA5. Importance of identifying non-conforming products and their storage.				
	KA6. Risk and impact of not following defined procedures/work instructions.				
	KA7. The escalation matrix for reporting identified issues.				
	KA8. Types of documentation in the organization and their importance.				
	KA9. Records to be maintained and the implicatio	ons of their non-mainter	nance.		
	KA10.Importance of housekeeping and good shop	floor practices			
	KA11.Health, safety and environment guidelines, I applicable.	egislations and regulati	ions, as		
	KA12.Personal protection (which protective equip	ment to be used and ho	OW)		
	KA13.Impact of poor practices on health, safety ar	and the second se			
	KA14.Potential hazards and actions to minimize th				
	KA15.The escalation matrix and procedures for rep	100 C C C C C C C C C C C C C C C C C C			
	KA16.Importance of FIFO				
	KA17.Impact of various practices on cost, quality,	productivity, delivery a	nd safety.		
	KA18.Handover/Takeover of the equipment/work	A	-		
B. Technical	The user/individual on the job needs to know and the set of the se	understand:			
Knowledge					
	KB1. Processing with building machines				
	KB2. Working of the electronic gadgets provided on the building machine				
	panelsImportance of communicating with el		-		
	/technicians in case of requirements of trou	U U	equipment		
	KB3. Use of solvent for freshening and tyre stripp	-			
	KB4. Proper method of removing green tyre from	Chucks			
	KB5. Stitchers and their settings in tyre building				
	KB6. Sequential application of components and it	•			
	KB7. Implications of poor off set application of be		-		
	KB8. Proper usage of tread, chafer and side wall and its effect on cured tyre				
	KB9. Importance of poor and wrinkled turn up/ down				
	KB10. Effect of wrong dimension of the components				
	KB11. Proper usage of solvent while extracting green tyre from drum without causing damage to liners				
	KB12. Implications of poor or loose stitching around bead				
	KB13. Importance of careful inspection				
	KB14. Implications of poor green tyre with too many splices				
	KB15. Appropriate component usage				
	KB16. Effect oftrapped air in bead area				

RSC / N 0514



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RUBBER SKILL DEVELOPMENT COUNCIL	Netional Occupational Standards	GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT	Transforming the skill la
RSC / N 0514	Build Bicycle/Rickshaw TBM Tyre	& ENTREPRENEURSHIP	1
	KB17. Impact of tyres getting scrapped due to buildir	-	
	KB18. Implications of poor performance of Tyres in the problems	he field due building	related
	KB19. Importance of safety measures used during the	e process to avoid ar	ny accident
	or injury		
	KB20. Process and importance of quality checks.		
	KB21. Types of defects leading to rejections and their	r indicators, reasons	and possible
	solutions.		·
	KB22. Potential problems in the tyre building operati	ions	
	KB23. Units of measurement.		
	KB24. Response to emergencies, for example, power	[.] failures, fire, system	n failures and
	manual intervention to avoid disasters.		
Skills (S)			
	Writing Skills		
	The user/individual on the job needs to know and u	understand how to:	
	SA1. Construct simple sentences and express ideas	s clearly through writ	ten
	communication		
	SA2. Fill up appropriate technical forms , activity lo	gs in required forma	t of the
	company		
	SA3. Write simple letters, mails, etc	14	
	SA4. Perform basic functional mathematical operat	tions	
	Reading and Understanding Skills		
	The user/individual on the job needs to know and u	inderstand how to:	
	SA5. Read and understand manuals, health and saf	ety instructions, mer	nos, reports,
A. Core Skills/	job cards etc	- C.C.	
Generic Skills	SA6. Read images, graphs, diagrams		
	SA7. Understand the various coding systems as per	r company norms	
	Oral Communication (Listening and Speaking skills)		
	The user/individual on the job needs to know and u	inderstand how to:	
	SA8. Express statements, opinions or information c	learly so that others	can hear
	and understand		
	SA9. Respond appropriately to any queries		
	SA10. Communicate with supervisor		
	SA11. Communicate with upstream and downstream	n teams	
	SA12. Work in a team and other behavioral skills req	uired to support the	small group
	activities (Quality Circle, Cross Functional Tear	n, Suggestion Schem	ie)
	Integrity		





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RSC / N 0514	Build Bicycle/Rickshaw TBM Tyre	MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP	Transforming the skill la
	The user/individual on the job needs to know and	understand how to:	
	SA13. Practice honesty with respect to company pr	operty and time	
	SA14. Communicate with people in a form and man	nner and using langua	ge that is
	open and respectful		
	SA15. Resolve any difficulties in relationships with	colleagues , or get hel	p 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	n work assignment	
	SA17. Take initiative to enhance/learn skills in ones	s's area of work	
	SA18. The capacity to learn from experience in a ra	nge of settings and sc	enarios and
	the capacity to reflect on and analyse one's l	earning.	
	SA19. Is open to new ways of doing things		
	SA20. The capacity to envisage and articulate perso	onal 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	253	
	SA22. Act objectively , rather than impulsively or e	motionally when face	d with
	difficult/stressful or emotional situations	1.36	
	SA23. Work in disciplined factory environment	distant .	
	SA24. Be punctual		
	Material and Equipment Handling		
	The user/individual on the job needs to know and	understand how to:	
	SB1. Handle tyre ,chuck		
	SB2. Handle the components required for tyre bui	lding.	
	SB3. Handle paint and solvents		
B. Professional Skills	SB4. Handling of various types of material handlin	g equipment.	
	Analytical Thinking		
	The user/individual on the job needs to know and u	nderstand how to:	
	SB1. Diagnose common problems in the tyre, dru	m,rings and componer	nts based on
	visual inspection		
	SB2. Resolve the problems related to improper ap	plication of compone	nts
	SB3. Suggest improvements(if any) in process bas	ed on experience	









NOS Version Control

NOS Code	RSC / N 0514		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	02/12/14
Industry Sub-sector	Tyre	Last reviewed on	02/12/14
Occupation	Tyre Building	Next review date	02/12/15



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National Occupational Standard



Overview

This unit is about performing activities after the building operation for bicycle/rickshaw TBM tyre is completed.









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Unit Code	RSC / N 0515
Unit Title (Tack)	Perform post - tyre building activities
(Task) Description	This unit is about performing activities after the building operation for off the road green tyre is completed.
Scope	This unit/task covers the following:
	 Ensuring housekeeping and safety in the tyre building area Identify the green tyre, inspect, repair and send the tyre to suitable storage area or for curing
	 Maintain the special equipments required for each tyre and size properly in the designated area
	 Report any repair and maintenance requirement to the Supervisor
	Handling of unused components
Performance Criteria (F	PC) w.r.t. the Scope
Element	Performance Criteria
Operation	 To be competent, the user/individual on the job must be able to PC1. Place the builder number sticker on the bead area for traceability PC2. Marking on the tyre with crayon PC3. Inspect green tyre and check for wrinkles and air pockets; rectify /repair wrinkles and awl vent the airpockets PC4. Place the Ok green tyres on Pin stands provided near the building machine for service man to pick up and move to curing area . PC5. in plants equipped with overhead hook conveyors load the built green tyre on the hooks for transporting to curing area PC6. Record number of tyres built and number scarpped or held for disposition PC7. Maintain the equipments required for tyre building PC8. Report any repair and maintenance requirement to the Supervisor PC9. Send the unused components to the designated place PC10. Maintain the special equipments required for each tyre and size properly in the designated area
Material disposal	PC11. Dispose of waste material safely, as per organizational SOP.
Batch Marking	 PC12. Ensure identification and traceability by marking code , date and shift on the tyre with crayon batch as per the instructions laid down by the company. PC13. Identify the tyre builder by placing builder number sticker on the bead toe area of the tyre (or as per SOP)









Knowledge and Understanding (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 product. KA2. Significance of code marking. KA3. Importance of identifying non-conforming products and their storage. KA4. Risk and impact of not following defined procedures/work instructions. KA5. The escalation matrix and procedures for reporting identified problems. KA6. Types of documentation in the organization and their importance. KA7. Records to be maintained and the implications of their non-maintenance. KA8. Importance of housekeeping ad good shop floor practices KA9. Health, safety, and environment guidelines, legislations and regulations as applicable. KA10. Personal protection (which protective equipment to be used and how). KA11. Potential hazards and actions to minimize them. KA12. Impact of poor practices on health, safety and environment. KA13. The escalation matrix and procedures for reporting hazards. KA14. Handover/Takeover of the equipment/work area as per organizational SOP. B. Technical Knowledge The user/individual on the job needs to know and understand: KB2. Proper usage of awl vent KB3. Importance of storing the unused component at designated place. KB4. Process and importance of quality checks. KB5. Code marking techniques. KB6. Implications of incorrect marking. KB7. Implications of incorrect marking. KB7. Implications of incorrect marking. KB8. Types of defects leading to rejections and their indicators, reasons and possible solutions. KB9. Units of measurement KB10. Coding systems for identification and traceability. KB11. The usage of different types of fire extinguishers Skills (S)	Health & Safety	 PC14. Handle the prepared product using hand gloves and other safety equipment. PC15. Adhere to all safety norms (such as wearing protective gloves , shoes, safety mask etc). PC16. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards.
A. Organizational Context (Knowledge of the company/ organization and its processes) The user/individual on the job needs to know and understand: KA3. Importance of code marking. KA3. Biks and impact of not following defined procedures/work instructions. KA4. Risk and impact of not following defined procedures/work instructions. KA5. The escalation matrix and procedures for reporting identified problems. KA6. Types of documentation in the organization and their importance. KA7. Records to be maintained and the implications of their non-maintenance. KA9. Health, safety, and environment guidelines, legislations and regulations as applicable. KA10. Personal protection (which protective equipment to be used and how). KA11. Potential hazards and actions to minimize them. KA12. Importance of inspection and repair KA14. Handover/Takeover of the equipment/work area as per organizational SOP. The user/individual on the job needs to know and understand: KB1. Importance of storing the unused component at designated place. KB5. Code marking techniques. KB6. Implications of incorrect marking. KB7. Implications of incorrect marking. KB8. Types of defects leading to rejections and their indicators, reasons and possible solutions. KB9. Units of measurement KB0. Coding systems for identification and traceability. KB1. The usage of different types of	Knowledge and Unders	standing (K)
KB1. Importance of inspection and repairKB2. Proper usage of awl ventKB3. Importance of storing the unused component at designated place.KB4. Process and importance of quality checks.KB5. Code marking techniques.KB6. Implications of incorrect marking.KB7. Implications of inappropriate waste disposal.KB8. Types of defects leading to rejections and their indicators, reasons and possible solutions.KB9. Units of measurementKB10. Coding systems for identification and traceability.KB11. The usage of different types of fire extinguishers	 A. Organizational Context (Knowledge of the company / organization and 	 The user/individual on the job needs to know and understand: KA1. Implications of poorly prepared product. KA2. Significance of code marking. KA3. Importance of identifying non-conforming products and their storage. KA4. Risk and impact of not following defined procedures/work instructions. KA5. The escalation matrix and procedures for reporting identified problems. KA6. Types of documentation in the organization and their importance. KA7. Records to be maintained and the implications of their non-maintenance. KA8. Importance of housekeeping ad good shop floor practices KA9. Health, safety, and environment guidelines, legislations and regulations as applicable. KA10.Personal protection (which protective equipment to be used and how). KA11.Potential hazards and actions to minimize them. KA12.Impact of poor practices on health, safety and environment. KA13.The escalation matrix and procedures for reporting hazards.
		 KB1. Importance of inspection and repair KB2. Proper usage of awl vent KB3. Importance of storing the unused component at designated place. KB4. Process and importance of quality checks. KB5. Code marking techniques. KB6. Implications of incorrect marking. KB7. Implications of inappropriate waste disposal. KB8. Types of defects leading to rejections and their indicators, reasons and possible solutions. KB9. Units of measurement KB10. Coding systems for identification and traceability.
A. Core Skills/ Writing Skills		Writing Skills









	MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP
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 basic functional mathematical operations
	Reading and Understanding Skills
	The user/individual on the job needs to know and understand how to:
	SA5. Read and understand manuals, health and safety instructions, memos, reports, job cards etc
	SA6. Read images, graphs, diagrams
	SA7. Understand the various coding systems as per company norms
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA8. Express statements, opinions or information clearly so that others can hear
	and understand
	SA9. Respond appropriately to any queries
	SA10. Communicate with supervisor
	SA11. Communicate with upstream and downstream teams
	SA12. Work in a team and other behavioral skills required to support the small group
	activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
	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

RESERVENCE RSC / N 0515	NOS Netoral Geogrational Standards Perform Post-Tyre Building Activities Perform Post-Tyre Building Activities
	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
	Material and Equipment Handling
	The user/individual on the job needs to know and understand how to:
	SB1. Handle green tyre and repair equipments.
	SB2. Handle components used in tyre building.
	SB3. Handling of various types of material handling equipment, trolleys , linesrs, shells
B. Professional Skills	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.
	Analytical Thinking
	The user/individual on the job needs to know and understand how to:
	SB5. Diagnose common problems in the prepared product based on visual
	inspection and experience.
	SB6. Carry out repair work related to building faults for green tyres
	SB7. Suggest improvements (if any) in process based on experience

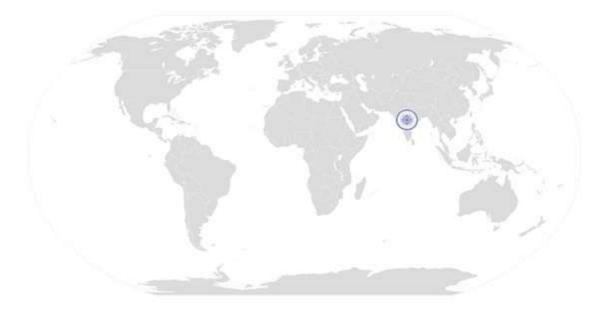








NOS Code	RSC / 0515		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber	Drafted on	02/12/14
Industry Sub-sector	Tyre	Last reviewed on	02/12/14
Occupation	Tyre Building	Next review date	02/12/15



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National Occupational Standard



Overview

This unit is about carrying out housekeeping





Carry Out Housekeeping Activities





National Occupational Standard

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 (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	

RSC / N 5001	NOS Instant Instant	
	 PC17. Maintain and store housekeeping equipment and supplies PC18. Follow workplace procedures to deal with any accidental damage caused during the cleaning process PC19. Ensure that, on completion of the work, the area is left clean and dry and meets requirements PC20. Return the equipment, materials and personal protective equipment that were used to the right places making sure they are clean, safe and securely stored PC21. Dispose the waste garnered from the activity in an appropriate manner PC22. Dispose of used and un-used solutions according to manufacturer's instructions, and clean the equipment thoroughly 	
General	PC23. Maintain schedules and records for housekeeping duty PC24. Replenish any necessary supplies or consumables	
Knowledge and Understandin B. Technical Knowledge		

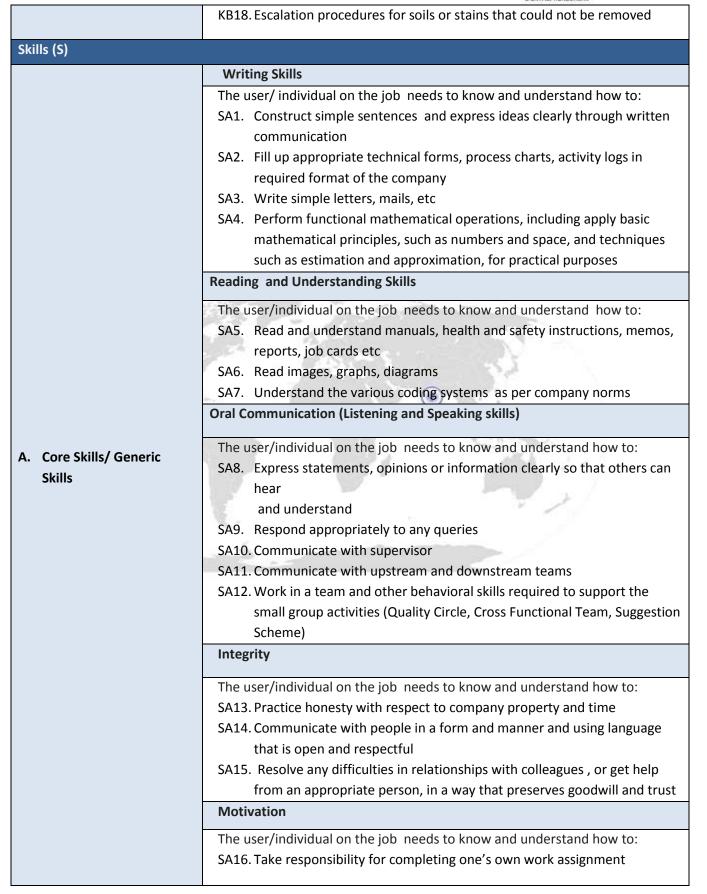




Carry Out Housekeeping Activities



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RSC / N 5001







Carry	/ Out House	keeping	Activities
Carry		.Accping	Activities

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











NOS Code	RSC / N 5001		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	04/06/14
Industry Sub-sector	Туге	Last reviewed on	14/06/14
Occupation	Tyre Building	Next review date	14/06/15



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National Occupational Standard



Overview





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RSC / N 5002 To Carry Out Reporting And Documention This unit is about reporting and documentation

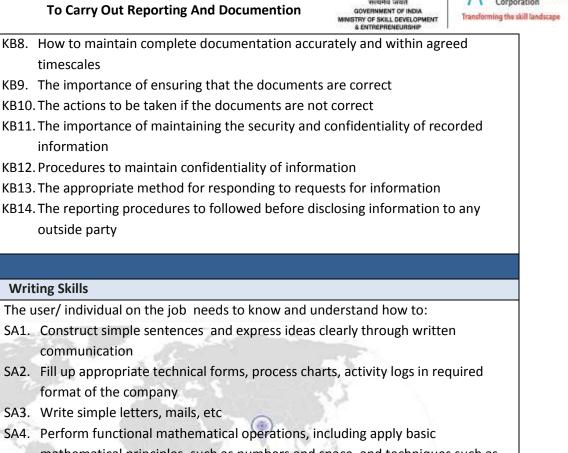
	Unit Code	RSC / N 5002
	Unit Title	To carry out reporting and documentation
	(Task)	
Description		This unit is about carrying out reporting and documentation
	Scope	This unit/task covers the following:
		Reporting of data/problem/incidents etc
		Documentation
		Information Security
	Performance Criteria (P	C) w.r.t. the Scope
	Element	Performance Criteria
	Reporting	To be competent, the user/individual on the job must be able to: PC1. Report data/problems/incidents as applicable in a timely manner PC2. Report to the appropriate authority as laid down by the company PC3. Follow reporting procedures as prescribed by the company
	Recording and Documentation	 PC4. Identify documentation to be completed relating to one's role PC5. Record details accurately an appropriate format PC6. Complete all documentation within stipulated time according to company procedure PC7. Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly PC8. Make sure documents are available to all appropriate authorities to inspect
	Information Security	 PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures PC10. Inform the appropriate authority of requests for information received
	Knowledge and Unders	tanding (K)
		The user/individual on the job needs to know and understand:
	B. Technical Knowledge	 KB1. Different methods of recording information KB2. Various documents that need to be maintained KB3. Company procedure for filling/maintaining up the documents KB4. Procedures for reporting to the appropriate authority KB5. Procedures for recording damage, breakages etc KB6. Reporting incidents where standard operating procedures are not followed KB7. The importance of complete and accurate documentation



Skills (S)







2	mathematical principles, such as numbers and space, and techniques such as
	estimation and approximation, for practical purposes

	The user/individual on the job needs to know and understand how to:
A. Core Skills/	SA5. Read and understand manuals, health and safety instructions, memos, reports,
Generic Skills	job cards etc
	SA6. Read images, graphs, diagrams
	SA7. Understand the various coding systems as per company norms
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA8. Express statements, opinions or information clearly so that others can hear
	and understand
	SA9. Respond appropriately to any queries
	SA10. Communicate with supervisor
	SA11. Communicate with upstream and downstream teams
	SA12. Work in a team and other behavioral skills required to support the small group
	activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
	Integrity

Reading and Understanding Skills

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To Carry Out Reporting And Documention

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	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
F	The user/individual on the job needs to know and understand how to:
	SA21. Avoid absenteeism
	SA22. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA23. Work in disciplined factory environment
	SA24. Be punctual





To Carry Out Reporting And Documention





NOS Version Control

NOS Code	RSC / N 5002		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	04/06/14
Industry Sub-sector	Tyre	Last reviewed on	14/06/14
Occupation	Tyre Building	Next review date	14/06/15



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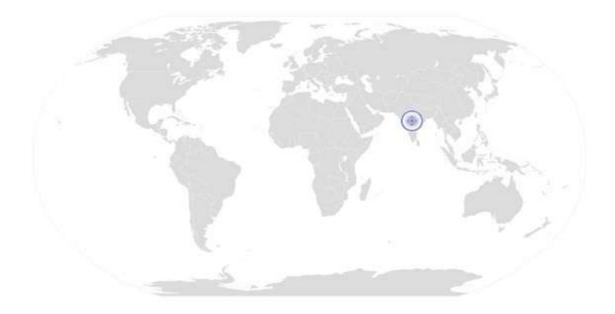








National Occupational Standard



Overview

This unit is about carrying out quality checks



NOS Netonal Cooperioral Standards To Carry Out Quality Checks





	MINISTRY OF SKILL DEVELOPMENT & EXTREPREMEURSHIP
Unit Code	RSC / N 5003
Unit Title (Task)	To carry out quality checks
Description	This unit is about carrying out quality control activities
Scope	This unit/task covers the following:
	Carrying out quality checks to identify problems
	Take corrective actions
	Reporting the results
Performance 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 Un	derstanding (K)
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. The importance of quality control procedures
	KB2. Relevance and importance of activities and how they contribute to the











	& ENTREPRENEURSHIP
Skills (S)	 achievement of the quality objectives, KB3. Proper procedure for selecting the material/product and performing quality checks without affecting the material KB4. Availability of work instructions, as necessary, KB5. Characteristics of the product/material KB6. Use of suitable equipment KB7. Availability and use of monitoring and measuring devices, KB8. Requirements of records KB9. Importance of maintaining accurate up-to-date records KB10. The need to report within the stipulated time KB11. Implications of inaccurate measuring and testing instruments and equipment KB12. The cost of non-conformance to quality standards KB13. Implications (impact on internal/external customers) of defective products, materials or components
Skills (S)	
	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 and Understanding Skills
A. Core Skills/	The user/individual on the job needs to know and understand how to:
Generic Skills	 SA5. Read and understand manuals, health and safety instructions, memos, reports, job cards etc SA6. Read images, graphs, diagrams SA7. Understand the various coding systems as per company norms
	Oral Communication (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
incegrity
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









NOS Version Control

NOS Code	RSC / N 5003		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	04/06/14
Industry Sub-sector	Туге	Last reviewed on	14/06/14
Occupation	Tyre Building	Next review date	14/06/15











National Occupational Standard



Overview

This unit is about problem identification and escalation









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Unit Code	RSC / N 5004
Unit Title	To some out weaklow identification and coolation
(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
	To be competent, the user/individual on the job must be able to:
	PC1. Identify defects/indicators of problems
Problem	PC2. Identify any wrong practices that may lead to problems
Identification	PC3. Identify practices that may impact the final product quality
identification	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
	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
Necessary Action	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









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	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
	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
	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)	
SKIIS (S)	Writing Skills
	The user/ individual on the job needs to know and understand how to:
	SA1. Construct simple sentences and express ideas clearly through written communication
A. Core Skills/	
Generic Skills	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









To Carry Out Problem Identification And Escalation COVERNMENT OF INDU TRY OF SKILL DEVELOPMENT estimation and approximation, for practical purposes **Reading and Understanding Skills** The user/individual on the job needs to know and understand how to: SA5. Read and understand manuals, health and safety instructions, memos, reports, job cards etc SA6. Read images, graphs, diagrams SA7. Understand the various coding systems as per company norms Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA8. Express statements, opinions or information clearly so that others can hear and understand SA9. Respond appropriately to any queries SA10. Communicate with supervisor SA11. Communicate with upstream and downstream teams SA12. Work in a team and other behavioral skills required to support the small group activities (Quality Circle, Cross Functional Team, Suggestion Scheme) 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









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SA24. Be punctual

NOS Code	RSC / N 5004			
Credits(NSQF)	TBD	Version number	1.0	
Industry	Rubber Manufacturing	Drafted on	20/03/14	
Industry Sub-sector	Tyre and NonTyre	Last reviewed on	05/05/14	
Occupation	Tyre Building	Next review date	05/05/15	

NOS Version Control

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Bicycle/Rickshaw Tyre Building Operator : TBM

Qualification Pack RSC/ Q 0502

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

				Marks Allocation		
NOS	Elements	Performance Criteria	Total	Theory	Practical	
RSC / N 0513 Prepare	Equipment readiness	PC1. Ensure that the tools and equipments required for tyre building are clean and ready to use.	2	0	2	
building		PC2. Follow machine and equipment preparation process as per SOP	14	8	6	
machine and collect		PC3. Check if the stitchers are functional and have adequate specified pressures as required by specification	12	6	6	
components		PC4. Make the correct building drum available	5	0	5	

		PC5. Ensure that the chuck on which tyre is built is available and set for the correct width	3	0	3
		PC6. Ensure that no delays are caused as a result of improper preparation and failure to identify problems.	5	5	0
		PC7. Ensure the availability of all the components	1	0	1
	Raw material	PC8. Check tags , markings , date and shift to ensure correctness of codes and the use of only within age components made	12	8	4
	appropriate ness	PC9. Ensure that the component dimensions are as per the specification	16	9	7
		PC10. Check if all the beads are marked as required for facilitating assembling in the sequence	12	8	4
		PC11. Ensure the use of certified tools and equipments for tyre building	3	3	0
Health & Safety		PC12. Avoid wearing loose shirt	2	2	0
	PC13. Adhere to all safety norms (such as wearing protective gloves, mask, earplugs and safety shoes).	8	6	2	
		PC14. Avoid spillage and in case of spillage occur , follow safety measures as laid down by safety department	3	3	0
		PC15. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards.	2	2	0
			100	60	40
	Raw	PC1. Ensure that all the components required for tyre building are available as per the specification and schedule.	4	0	4
RSC / N 0514 Build Bicycle/Ricksha w TBM Tyre	appropriate	PC2. Check the component for suitability (appearance and other quality checks)	4	2	2
	ness	PC3. Ensure drum paint and solvent for freshening is available	2	0	2
		PC4. Follow sequence of consolidating components as per guidelines issued by the technical	12	4	8
	PC5. Place bead on grooves on either side of the chuck	10	3	7	
	Operation	PC6. Apply ply spirally over the bead rings at a specified bais angle ensuring beads are well covered and the ends stitched	12	5	7
		PC7. Apply stitchers and appropriate stitching pressures for proper	12	5	7

		and uniform stitching of treads with the ply/plies			
		PC8. Ensure that there are no air traps at the bead area	12	5	7
		PC9. Release the tyre after tyre building is over	2	2	0
		PC10. Use solvent to freshen the ply or tread if they are of low tack	6	3	3
		PC11. Inspect the green tyre for blemishes and air pockets	10	4	6
		PC12. Maintain safe distance from rotating drum	2	0	2
	Health & Safety	PC13. Avoid wearing loose shirt	2	2	0
		PC14. Minimal usage of solvent	2	0	2
		PC15. Adhere to all safety norms (such as wearing protective gloves, masks and earplugs)	6	3	3
		PC16. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards.	2	2	0
			100	40	60
		PC1. Place the builder number sticker on the bead area for traceability	7	4	3
		PC2. Marking on the tyre with crayon	4	0	4
		PC3. Inspect green tyre and check for wrinkles and air pockets; rectify /repair wrinkles and awl vent the airpockets	16	11	5
RSC / N 0515		PC4. Place the Ok green tyres on Pin stands provided near the building machine for service man to pick up and move to curing area .	2	0	2
Perform Post- Tyre Building	Operation	PC5. in plants equipped with overhead hook conveyors load the built green tyre on the hooks for transporting to curing area	3	0	3
Activities		PC6. Record number of tyres built and number scarpped or held for disposition	9	6	3
		PC7. Maintain the equipments required for tyre building	6	4	2
		PC8. Report any repair and maintenance requirement to the Supervisor	2	2	0
		PC9. Send the unused components to the designated place	4	4	0
		PC10. Maintain the special equipments required for each tyre and size properly in the designated area	12	8	4

	Material disposal	PC11. Dispose of waste material safely, as per organizational SOP.	2	0	2
	Batch	PC12. Ensure identification and traceability by marking code , date and shift on the tyre with crayon batch as per the instructions laid down by the company.	8	5	3
	Marking	PC13. Identify the tyre builder by placing builder number sticker on the bead toe area of the tyre (or as per SOP)	8	5	3
		PC14. Handle the prepared product using hand gloves and other safety equipment.	7	4	3
	Health & Safety	PC15. Adhere to all safety norms (such as wearing protective gloves , shoes, safety mask etc).	7	4	3
	Salety	PC16. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards.	3	3	0
			100	60	40
		PC1. Inspect the area while taking into account various surfaces	3	3	0
		PC2. Identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain	3	3	0
		PC3. Ensure that the cleaning equipment is in proper working condition	3	3	0
	Pre housekeepi	PC4. Select the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person	3	3	0
RSC/N5001 To Carry Out	ng activities	PC5. Plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces	3	3	0
Housekeeping		PC6. Inform the affected people about the cleaning activity	2	2	0
		PC7. Display the appropriate signage for the work being conducted	3	3	0
		PC8. Ensure that there is adequate ventilation for the work being carried out	3	3	0
		PC9. Wear the personal protective equipment required for the cleaning method and materials being used	3	3	0
	Operations	PC10. Use the correct cleaning method for the work area, type of soiling and surface	3	3	0

		PC11. Carry out cleaning activity without disturbing others	3	3	0
		PC12. Deal with accidental damage, if any, caused while carrying out the work	3	3	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	3	3	0
		PC15. Ensure that there is no oily substance on the floor to avoid slippage	9	3	6
		PC16. Ensure that no scrap material is lying around	9	3	6
		PC17. Maintain and store housekeeping equipment and supplies	3	3	0
	Post	PC18. Follow workplace procedures to deal with any accidental damage caused during the cleaning process	3	3	0
	housekeepi	PC19. Ensure that, on completion of the work, the area is left clean and dry and meets requirements	8	2	6
	ng activities	PC20. Return the equipment, materials and personal protective equipment that were used to the right places making sure they are clean, safe and securely stored	3	3	0
		PC21. Dispose the waste garnered from the activity in an appropriate manner	9	3	6
		PC22. Dispose of used and un-used solutions according to manufacturer's instructions, and clean the equipment thoroughly	9	3	6
	Comoral	PC23. Maintain schedules and records for housekeeping duty	3	3	0
	General	PC24. Replenish any necessary supplies or consumables	3	3	0
			100	70	30
		PC1. Report data/problems/incidents as applicable in a timely manner	12	8	4
RSC/N5002 To Carry Out	Reporting	PC2. Report to the appropriate authority as laid down by the company	12	8	4
Reporting And		PC3. Follow reporting procedures as prescribed by the company	12	8	4
Documentation	Recording	PC4. Identify documentation to be completed relating to one's role	10	6	4
	and	PC5. Record details accurately an appropriate format	16	6	10

	Documentat ion	PC6. Complete all documentation within stipulated time according to company procedure	14	4	10
		PC7. Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly	6	4	2
		PC8. Make sure documents are available to all appropriate authorities to inspect	6	4	2
	Information	PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures	6	6	0
	Security	PC10. Inform the appropriate authority of requests for information received	6	6	0
			100	60	40
	Inspection	PC1. Ensure that total range of checks are regularly and consistently performed	24	10	14
	Inspection	PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as required	24	10	14
		PC3. Identify non-conformities to quality assurance standards	6	4	2
		PC4. Identify potential causes of non-conformities to quality assurance standards	5	3	2
	Analysis	PC5. Identify impact on final product due to non-conformance to company standards	5	3	2
RSC/N5003		PC6. Evaluating the need for action to ensure that problems do not recur	6	4	2
To Carry Out		PC7. Suggest corrective action to address problem	5	3	2
Quality Checks		PC8. Review effectiveness of corrective action	5	3	2
		PC9. Interpret the results of the quality check correctly	4	4	0
		PC10. Take up results of the findings with QC in charge/appropriate authority.	3	3	0
	Reporting	PC11. Take up the results of the findings within stipulated time	3	3	0
		PC12. Record of results of action taken	3	3	0
		PC13. Record adjustments not covered by established procedures for future reference	3	3	0
		PC14. Review effectiveness of action taken	2	2	0
		PC15. Follow reporting procedures where the cause of defect cannot	2	2	0

		be identified			
			100	60	40
		PC1. Identify defects/indicators of problems	7	4	3
		PC2. Identify any wrong practices that may lead to problems	6	3	3
Problem	PC3. Identify practices that may impact the final product quality	6	3	3	
	Identificatio	PC4. Identify if the problem has occurred before	5	3	2
	n	PC5. Identify other operations that might be impacted by the problem	6	4	2
		PC6. Ensure that no delays are caused as a result of failure to escalate problems	5	3	2
		PC7. Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required)	8	5	3
		PC8. Consider possible reasons for identification of problems	8	5	3
		PC9. Consider applicable corrections and formulate corrective action	3	3	0
RSC/N5004 To Carry Out		PC10. Formulate action in a timely manner	3	3	0
Problem		PC11. Communicate problem/remedial action to appropriate parties	7	5	2
Identification		PC12. Take corrective action in a timely manner	2	2	0
And Escalation		PC13. Take corrective action for problems identified according to the company procedures	2	2	0
	Necessary Action	PC14. Report/document problem and corrective action in an appropriate manner	8	5	3
		PC15. Monitor corrective action	2	2	0
		PC16. Evaluate implementation of corrective action taken to determine if the problem has been resolved	2	2	0
		PC17. Ensure that corrective action selected is viable and practical	2	2	0
		PC18. Ensure that correct solution is identified to an identified problem	2	2	0
		PC19. Take corrective action for problems identified according to the company procedures	1	1	0
		PC20. Ensure that no delays are caused as a result of failure to take necessary action	1	1	0

	PC21. Escalate problem as per laid down escalati	on matrix 4	3	1
Dro	PC22. Escalate the problem within stipulated tim	ie 4	3	1
	PC23. Escalate the problem in an appropriate ma	anner 3	2	1
	PC24. Ensure that no delays are caused as a resu escalate problems	It of failure to 3	2	1
		100	70	30