



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- Tyre Fitter-Servicing and Maintenance

SECTOR: RUBBER INDUSTRY

SUB-SECTOR: Tyre

OCCUPATION: Tyre Servicing / Maintenance

REFERENCE ID: RSC/Q3601

ALIGNED TO: NCO-2015/NIL

Brief Job Description: A Tyre Fitter-Servicing and Maintenance is responsible for fitting different types of tyres (new/used/replacement) to the rim. Tyre fitment can be made as a part of service sector (manufacturing of automobile /or in the market) or in-house in the tyre manufacturing plant for testing such as plunger and wheel testing. Also, he is responsible for carrying out proper tyre inflation and maintenance.

Personal Attributes: This job requires the individual to be a good observer and demonstrate spontaneity in resolving the different repairing issues. He should be careful and strict in adhering to the specified norms. He should be active and energetic. He should be able to work independently under the guidance of supervisor. As a good learner, he should be willing to learn efficient ways to perform his work. He should be disciplined, focused and comfortable in performing laborious work.





Qualifications Pack For Tyre Fitter-Servicing and Maintenance

Qualifications Pack Code	RSC/Q3601		
Job Role	Tyre Fitter-Servicing and Maintenance		
Credits(NSQF)	TBD	Version number	2.0
Sector	Rubber Manufacturing	Drafted on	02/12/2014
Sub-sector	Tyre	Last reviewed on	23/08/2017
Occupation	Tyre Servicing / Maintenance	Next review date	23/08/2021
NSQC Clearance on			

Job Role	Tyre Fitter-Servicing and Maintenance
Role Description	A Tyre Fitter-Servicing and Maintenance is responsible to fit different types of tyres (new/used/replacement) to the rim depending upon the requirement. Also, he is responsible for carrying out proper tyre inflation and maintenance.
NSQF level	4
Minimum Educational Qualifications*	Class VIII th Pass
Maximum Educational Qualifications*	
Prerequisite License or Training	NA
Minimum Job Entry Age	18 years
Experience	Worked as a semi-skilled helper for minimum 12 months in the
	same or similar process
Applicable National Occupational	Compulsory:
Standards (NOS)	1. RSC/N3601 - Prepare material, tools and machine for tyre fitter
	servicing/maintenance
	2. RSC/N3602 - Undertake tyre fitter servicing/maintenance
	3. RSC/N3603 - Perform post-tyre servicing/maintenance
	<u>activities</u>
	4. RSC/N5001 - Carry out housekeeping in rubber product
	<u>manufacturing</u>
	5. RSC/N5002 - Carry out reporting and documentation
	6. RSC/N5003 - Carry out quality checks
	7. RSC/N5004 - Carry out problem identification and escalation
	8. RSC/N5007 - Carry out health and safety
	9. RSC/N5013 - Develop entrepreneurship skills
Performance Criteria	As described in the relevant OS units



Qualifications Pack For Tyre Fitter-Servicing and Maintenance

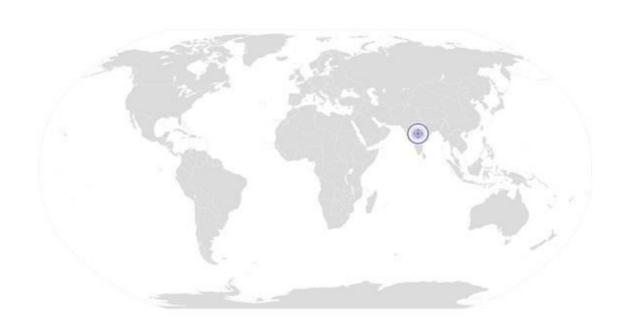
L C	Qualifications Pack For Tyre Fitter-Servicing and Maintenance Transforming the skill landscape
Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics 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.
Job Role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
Occupational Standards (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.
National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context.
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.
Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.
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.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
Organizational Context	Organizational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills or Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.







National Occupational Standard



Overview

This unit is about preparing material, tools and machine for tyre servicing/maintenance involving tyre/tube extraction from rim, tyre inflation and/tube fitting.

Unit Code	RSC/N3601
Unit Title	Prepare material, tools and machine for tyre fitter servicing/maintenance







National Occupational Standards Prepare material, tools and machine for tyre fitter servicing/maintenance

Transforming the skill landscape

	Transforming the skill landscape
(Task)	
Description	This unit is about preparing material, tools and machine for tyre servicing/maintenance involving tyre tube extraction from rim, tyre inflation and tyre tube fitting.
Scope	 This unit/task covers the following: Prepare the tyre servicing/maintenance tools, equipments and machine Selection of tools based on the type of tyre to be inflated/fitted and get the required material to carry out tyre inflation and fitting operations Ensure housekeeping and safety in tyre fitting area
Performance Criteria (P	C) w.r.t. the Scope
Element	Performance Criteria
Tyre servicing/maintenance	To be competent, the user/individual on the job must be able to
tools, equipments and	PC1. Ensure the availability of all required tools and equipments (such as air
machine readiness	compressor, electric motor, hand pump, knife, hand buffing machine, awl, hand stitchers, crowbars, hydraulic assembly for removing used tyre from rim etc) for tyre servicing/maintenance PC2. Ensure that the tools are clean and well maintained. PC3. Check the sharpness of the knife for the cutting purpose. PC4. Ensure that the pressure gauges (Mounted or hand carried) for checking inflation pressure is available PC5. Ensure safety shield/cage is in place while inflating the tyre PC6. Check the functioning of safety alarm which signals once the offset limit for inflation pressure is reached PC7. Place the tools on a safe location.
Material and	PC8. Ensure that tube/flap/valve to be used is approved by the QA/QC.
Accessories	PC9. Perform visual inspection of the tyre for any defect
appropriateness	PC10. Check the availability of tyre, tube, & rim with reference to the given job schedule
	PC11. Check the rim for cleanliness, corrosion or damage;
	PC12. Prepare soap solution to facilitate tyre mounting
	PC13. Ensure rubber gum sheet, adhesive cement and solvent are available
	PC14. Ensure the gum sheets are well protected with poly ethylene sheets to keep them tacky and non-bloomy
	PC15. Ensure the cement adhesive to be used is fresh out of stored drums and are of correct cod
	PC16. Ensure the supply of Air/Nitrogen for inflation
Housekeeping &	PC17. Ensure the use of certified/tested fitting tools and equipment and check their
Safety	functioning.
	PC18. Ensure safety shield/cage is in place while inflating the tyre (both tube and tubeless tyres)







Prepare material, tools and machine for tyre fitter servicing/maintenance

Transforming the skill landscape

	PC19. Adhere to all safety norms (such as wearing protective gloves, masks and
	shoes).
	PC20. Comply with health, safety, environment guidelines and regulations in
	accordance with international/national standards or the organizational
	standards.
Knowledge and Underst	anding (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	
(Knowledge of the	KA1. Implications of poorly prepared tools and machine.
company /	KA2. Importance of identifying non-conforming materials
organization and	KA3. Risk and impact of not following defined procedures/work instructions.
its processes)	KA4. Escalation matrix for reporting identified problems
	KA5. Records to be maintained and the implications of their non-maintenance.
	KA6. Importance of housekeeping activities.
	KA7. Health, safety and environment guidelines, legislation and regulations as
	applicable.
	KA8. Personal protection (which protective equipment to be used and how).
	KA9. Importance of FIFO
	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 hazard
	KA13.Impact of various practices on cost, quality, productivity, delivery and safety.
	KA14. Handover/Takeover of the equipment/work area as per the organizational
	SOP.
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	
	KB1. Proper handling of tyres, tubes, rim, valve, valve cap, flap and other
	accessories
	KB2. Proper usage of fitting/inflation tools and equipments
	KB3. Requirement of fitted tyres for Plunger testing and Wheel testing
	KB4. Knowledge of measuring pressure inside tyre using pressure gauges
	KB5. Knowledge of high/low pressure on tyre performance
	KB6. Effect of improper fitting of tyre resulting in the loss of material and value loss
	KB7. Proper usage of lubricants
	KB8. Maintaining hand tools such as Knives, stitchers, buffers.
	KB9. Sharpening of knives
	KB10. Identification of inflation requirement of different types of tyres
	KB11. Knowledge of measuring pressure inside tyre using pressure gauges
	KB12. Knowledge of high/low inflation pressure on tyre performance
	KB13. Effect of improper inflation level on performance of tyre and possibility of any
	accident
	KB14. Importance of safety alarm w.r.t. crossing of optimal inflation level







Prepare material, tools and machine for tyre fitter servicing/maintenance

Transforming the skill landscape

	Transforming the skill landscape		
	KB15. Knowledge of impact on self or others on by passing the safety procedures		
	KB16. Various abnormalities and suitable response for abnormalities in equipment		
	performance.		
	KB17. Implications of delays in the tyre fitting process.		
	KB18. Types of defects leading to rejections and their reasons and possible		
	solutions.		
	KB19. Cleanliness and safety requirements for commencing tyre		
	servicing/maintenance.		
	KB20. Units of measurement.		
	KB21. Response to injuries while handling tyres		
	KB22. Knowledge of appropriate tools with respect to requirement.		
al III (a)	KB23. Knowledge of first aid treatment to address any cut/injury		
Skills (S)			
A. Core Skills/ Generic	Writing Skills		
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		
	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 and prepare tags		
	Reading Skills		
	heading Skins		
	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		
	SA8. Express statements, opinions or information clearly so that others can hear		
	and understand		
	SA9. Respond appropriately to any queries		
	SA10. Communicate with teacher/trainer		
	SA11. Communicate with people in a form and manner and using language that is		
	open and respectful		
	Decision Making		
	Decision Waking		
B. Professional Skills	The user/individual on the job needs to know and understand how to:		
	SB1. Take a decision for any change/issue based on earlier successes (documented		
	previous history) on similar issues		
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Transforming the skill landscape

- SB2. Work out changes in case a new improved machine/equipment is added in the process or any new material /chemical is developed replacing existing one.
- SB3. Make changes in cycle time due to improved process.
- SB4. Use the standard operating procedure or trouble shooting manuals for trouble shooting and other reference documents approved by plant management
- SB5. Consult the peer group and superiors to arrive at a favourable decision.
- SB6. Use of standard available problem solving techniques for decision making
- SB7. Review and analyze the process steps to check on system non adherence and non conformity
- SB8. Review the current SOP and other standards for continuous improvement to facilitate decision making
- SB9. Take a calculated risk with minimum losses

Plan and Organize

- SB10. Suggest requirement for purchase of new machinery or updating of technology in processing operation
- SB11. Seek clarification on problems from teacher/trainer /other fellows

Customer Centricity

- SB12. Match customer needs/specification by adjusting the processing conditions (interact with customer in case any clarification required)
- SB13. Ensure that performance of his action/operation/activity does not lead to any divergence from the specified quality of the final product as required by the customer.
- SB14. Complete the assigned task in timely manner so that the final product is delivered in the timeline given by the customer.
- SB15. Communicate effectively to the superior/customer for any delay in supplies to the clients.
- SB16. Work towards fulfilling the customers requirement as per their demand.
- SB17. In case of any complaint, ensure its timely resolution if the problem is emanating at his level
- SB18. Communicate effectively to the superior/customer for any delay in resolving the problem faced by the customer.
- SB19. Maintain good/cordial relation with customers.
- SB20. Work on the feedback received from customer regarding the product.

Problem Solving

- SB21. Interpret quality for sheet
- SB22. Suggest improvements(if any) in process/product/materials based on results and experience

Analytical Thinking







Prepare material, tools and machine for tyre fitter servicing/maintenance

Transforming the skill landscape

SB23. Identify the problems pertaining to the tools based on visual inspection and
work efficiency
SB24. Diagnose common problems in the tyre and related accessories based on
visual inspection, sound, etc
SB25. Suggest improvements(if any) in process based on experience
SB26. Minimal wastage while undertaking tyre fitting
SB27. Suggest improvements(if any) in process based on experience
SB28. Minimize wastage of fabric while cutting plies of different sizes and carrying
out wire cutting and slitting operations

Critical Thinking

- SB29. Seek clarification on problems from others
- SB30. Apply problem-solving approaches in different situations
- SB31. Refer anomalies to the line manager



NOS Version Control



Occupation



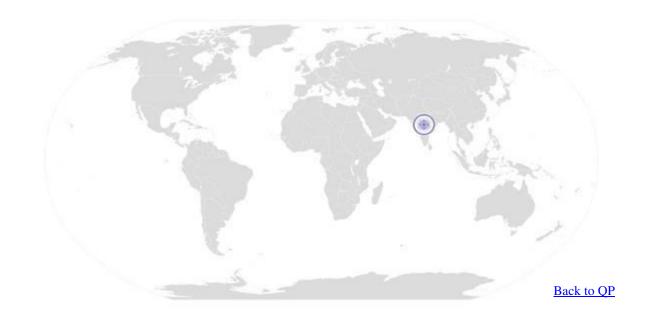
23/08/2021

Prepare material, tools and machine for tyre fitter servicing/maintenance

NOS Code	RSC/N3601	l3601		
Credits(NSQF)	TBD	Version number	2.0	
Industry	Rubber Manufacturing	Drafted on	02/12/2014	
Industry Sub-sector	Tyre	Last reviewed on	23/08/2017	
Occupation.	Tyre Servicing /	Nava variani data	22/22/224	

Maintenance

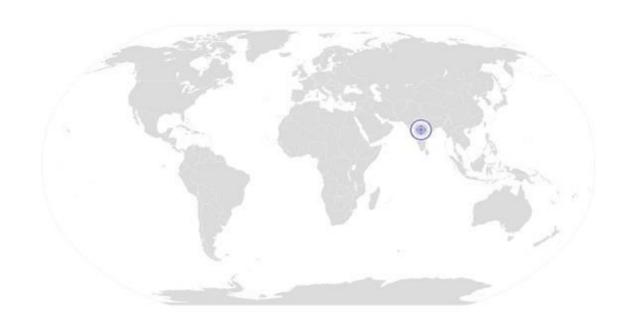
Next review date







National Occupational Standard



Overview

This unit is about undertaking tyre fitting and inflation operation using appropriate tools, equipments and material.



NOS National Occupational Standards



Undertake Tyre Fitter Servicing/Maintenance

Unit Code	RSC/N3602
Unit Title (Task)	Undertake tyre fitter servicing /maintenance
Description	This unit is about undertaking tyre fitting and inflation operation using appropriate tools, equipments and material.
Scope	 This unit/task covers the following: Collect material, operate the curing presses and Locate positions for Tube valve and flap to match rim hole Operate on the tools and equipments to fit the tyre. Perform proper specified inflation for the tyre Ensure housekeeping and safety in tyre fitting area.

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

Element	Performance Criteria	
Raw Material and Accessories	To be competent, the user/individual on the job must be able to :	
appropriateness	PC1. Ensure, through visual inspections, that all the accessories required are of the desired quality.	
	PC2. Check the availability of required tyres, tubes, flaps, o rings rims PC3. Check the availability of tyre in case of replacement	
Fitting Operation	PC4. Perform tyre fitment (for new /replacement/ for in-house indoor testing as per the SOP	
	PC5. Carry out proper positioning of tyre, tube and flap to rim	
	PC6. Match position for rim hole with tube valve and flap	
Tyre Inflation	PC7. Check for calibration stickers on pressure gauge	
	PC8. Ensure the use of certified hand pressure gauge	
	PC9. Open the valve, set pressure and inflate tyre(for new /used/in-house) as per the SOP	
	PC10. Remove and fit the valve cap	
	PC11. Carry out proper inflation i.e.in the optimal range as per the regulation/or as specified by the technical w.r.t different types of tyres	
	PC12. Check for leakage	
	PC13. Get the tube repaired/replaced in case of defect	
	PC14. Respond to safety alarm and deflate to achieve the specified inflation level	
Housekeeping &	PC15. Proper handling of machine and tools to avoid any injury/accident	
Safety	PC16. Usage of safety frame/metallic cage as in case of explosion tyre pieces does not	
	come out	
	PC17. Adhere to all safety norms (such as wearing protective gloves and shoes, safety	
	mask etc)	







Undertake Tyre Fitter Servicing/Maintenance

PC18. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational

	accordance with international/national standards or the organizational		
	standards.		
Knowledge and Unde	rstanding (K)		
A. Organizational	The user/individual on the job needs to know and understand:		
Context			
(Knowledge of	KA1. Tyre fitting and inflation operation and its importance.		
the company/	KA2. Implications of using wrong size tube/flap in the fitment		
organization and	KA3. Implications of poorly prepared tools.		
its processes)	KA4. The material disposal procedure, importance of appropriate disposal of material		
	and implications of not following the material disposal procedure.		
	KA5. How to conduct quality and damage checks and their importance.		
	KA6. Importance of identifying non-conforming products and their storage.		
	KA7. Risk and impact of not following defined procedures/work instructions.		
	KA8. The escalation matrix for reporting identified issues.		
	KA9. Types of documentation in the organization and their importance.		
	KA10. Records to be maintained and the implications of their non-maintenance.		
	KA11. Importance of housekeeping & good shop floor practices		
	KA12. Health, safety and environment guidelines, legislations and regulations, as		
	applicable.		
	KA13. Personal protection (which protective equipment to be used and how).		
	KA14. Impact of poor practices on health, safety and environment.		
	KA15. Potential hazards and actions to minimize them.		
	KA16. The escalation matrix and procedures for reporting hazards.		
	KA17. Importance of FIFO		
	KA18. Impact of various practices on cost, quality, productivity, delivery and safety.		
	KA19. Handover/Takeover of the equipment/work area as per organizational SOP.		
B. Technical	The user/individual on the job needs to know and understand:		
Knowledge			
	KB1. Fitting and inflation operation using appropriate tools and machine.		
	KB2. Cleanliness and safety requirements for commencing tyre service operation.		
	KB3. Tyre fitting operation using appropriate tools and machine.		
	KB4. Proper handling of new and used tyres		
	KB5. Requirements for Plunger and Wheel testing		
	KB6. Knowledge of high and low speed test as well as wheel endurance test		
	KB7. Effects of improper fitting on the performance of final product.		
	KB8. Knowledge of wrong usage of fitting tools and the possibility of it causing the		
	damage to tyre /tube/ flap		
	KB9. Importance of safety frame/metallic cage		
	KB10. Inflation techniques and importance of keeping inflation in the optimal range		
	KB11. The process and importance of quality checks.		
	KB12. Knowledge of using air compressor		







Undertake Tyre Fitter Servicing/Maintenance KB13. Effects of improper inflation on the performance of final product. KB14. Types of defects leading to rejections and their indicators, reasons and possible solutions. KB15. Potential problems in the fitting operation. KB16. Units of measurement. KB17. Knowledge of first aid treatment to respond to injuries. KB18. Optimal utilization of material and minimal wastage Skills (S) A. Core Skills/ **Writing 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. Write simple letters, email etc SA3. Fill up appropriate forms and activity logs in required format of the company 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** 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 SA8. Express statements, opinions or information clearly so that others can hear and understand SA9. Respond appropriately to any queries SA10. Communicate with teacher/trainer SA11. Communicate with people in a form and manner and using language that is open and respectful **Decision Making B. Professional Skills** The user/individual on the job needs to know and understand how to: SB1. Take a decision for any change/issue based on earlier successes (documented previous history) on similar issues SB2. Work out changes in case a new improved machine/equipment is added in the process or any new material/chemical is developed replacing existing one. SB3. Make changes in cycle time due to improved process. SB4. Use the standard operating procedure or trouble shooting manuals for trouble

shooting and other reference documents approved by plant management







Undertake Tyre Fitter Servicing/Maintenance

Transforming the skill landscape

- SB5. Consult the peer group and superiors to arrive at a favourable decision.
- SB6. Use of standard available problem solving techniques for decision making
- SB7. Review and analyze the process steps to check on system non adherence and non conformity
- SB8. Review the current SOP and other standards for continuous improvement to facilitate decision making
- SB9. Take a calculated risk with minimum losses

Plan and Organize

- SB10. Suggest requirement for purchase of new machinery or updating of technology in processing operation
- SB11. Seek clarification on problems from teacher/trainer /other fellows

Customer Centricity

- SB12. Match customer needs/specification by adjusting the processing conditions (interact with customer in case any clarification required)
- SB13. Ensure that performance of his action/operation/activity does not lead to any divergence from the specified quality of the final product as required by the customer.
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- SB15. Communicate effectively to the superior/customer for any delay in supplies to the clients.
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Problem Solving

- SB21. Interpret quality for sheet
- SB22. Suggest improvements(if any) in process/product/materials based on results and experience

Analytical Thinking







Undertake Tyre Fitter Servicing/Maintenance

Transforming the skill landscape

- SB23. Identify the problems pertaining to the tools based on visual inspection and work efficiency
- SB24. Diagnose common problems in the tyre and related accessories based on visual inspection, sound, etc
- SB25. Suggest improvements(if any) in process based on experience
- SB26. Minimal wastage while undertaking tyre fitting
- SB27. Suggest improvements(if any) in process based on experience
- SB28. Minimize wastage of fabric while cutting plies of different sizes and carrying out wire cutting and slitting operations

Critical Thinking

- SB29. Seek clarification on problems from others
- SB30. Apply problem-solving approaches in different situations
- SB31. Refer anomalies to the line manager



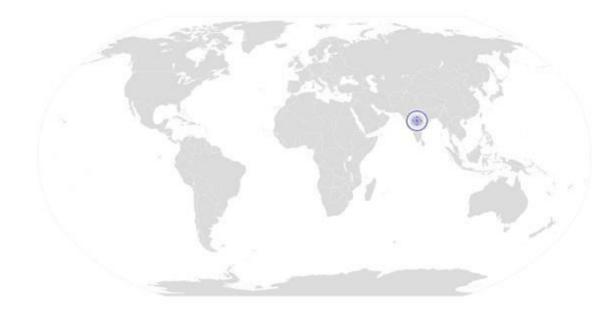






NOS Version Control

NOS Code	RSC/N3602		
Credits(NSQF)	TBD	Version number	2.0
Industry	Rubber Manufacturing	Drafted on	02/12/2014
Industry Sub-sector	Tyre	Last reviewed on	23/08/2017
Occupation	Tyre Servicing / Maintenance	Next review date	23/08/2021

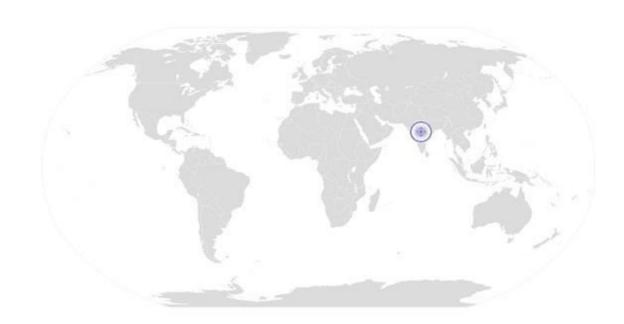


Back to QP





National Occupational Standard



Overview

This unit is about performing activities after the completion of tyre servicing/maintenance.



NOS



RSC/N3603	Perform Post-Tyre Fitter Servicing / Maintenance Activities Transforming the skill landscape
Unit Code	RSC/N3603
Unit Title	
(Task)	Perform post-tyre fitter servicing/maintenance activities
Description	This unit is about performing activities after the completion of tyre
	servicing/maintenance.
Scope	This unit/task covers the following:
	 Operate and Visual inspection of mounted tyre for any surface blemish or uneven inflation or weak spot Disposal of the unused material Arrange for keeping/sending fitted tyres at designated/marked place Ensuring housekeeping and safety in the tyre fitting area
Performance Criteria	(PC) w.r.t. the Scope
Element	Performance Criteria
Operate and Visual	To be competent, the user/individual on the job must be able to
inspection of	
mounted tyre	PC1. Clean tools and keep the tools at designated place after the completion of
	fitting/inflation operation.
	PC2. Organize to keep the fitted and inflated tyres appropriately.
	PC3. Remove the replaced tyres from the fitting area; send the wastage to the

operate and ricean	To be defined the decity matriadar on the job mast be able to	
inspection of		
mounted tyre	 PC1. Clean tools and keep the tools at designated place after the completion of fitting/inflation operation. PC2. Organize to keep the fitted and inflated tyres appropriately. PC3. Remove the replaced tyres from the fitting area; send the wastage to the 	
	appropriate place for re-use or disposal PC4. Report any problem related to tools, equipments, machine, tyres, material etc to the Supervisor	
	to the Supervisor	
Material disposal	PC5. Dispose of waste material safely, as per organizational SOP.	
	PC6. Store usable cut ends of rubber gum sheets for recalendering and usage	
Marking of tyres	PC7. Marking tyres for any issues.	
	PC8. Place ID tags to indicate tyre size, date and time of mounting/fitment	
Health & Safety	PC9. Handle the material using hand gloves and other safety equipment.	
	PC10. Adhere to all safety norms (such as wearing protective gloves, shoes, safety goggles etc).	
	PC11. Comply with health, safety, environment guidelines and regulations in	
	accordance with international/national standards or the organizational standards.	
Vnowledge and Under		







Perform Post-Tyre Fitter Servicing / Maintenance Activities Transforming the skill landscape The user/individual on the job needs to know and understand: A. Organizational Context (Knowledge of KA1. Implications of inappropriately fitted and inflated tyres. the company / KA2. Significance of marking. Importance of identifying non-conforming products and their storage. organization and KA3. its processes) 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 & 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. Importance of FIFO KA12. Potential hazards and actions to minimize them. KA13. Impact of poor practices on health, safety and environment. KA14. The escalation matrix and procedures for reporting hazards. KA15. Handover/Takeover of the equipment/work area as per organizational SOP. **B.** Technical The user/individual on the job needs to know and understand: Knowledge Appropriate method for keeping the fitted tyres KB1. KB2. Low /high inflation and its effect on tyre performance Importance of dimensional checks KB3. Importance of visual /appearance quality checks. KB4. Implications of inappropriate waste disposal. (eg. leaky tubes) KB5. Process and importance of dimensional and appearance quality checks. KB6. KB7. Implications of incorrect ID marking. KB8. Methods for removing remaining portions rubber cut ends and their storage and reuse after rework KB9. Types of defects leading to rejections and their indicators, reasons and possible solutions. KB10. Units of measurement. KB11. Coding systems for identification and traceability. KB12. Knowledge of FIFO KB13. Knowledge of the storage and handover of prepared product KB14. The usage of placing different types of tags for not using defective tools Skills (S) A. Core Skills/ **Writing Skills Generic Skills** The user/individual on the job needs to know and understand how to:

Construct simple sentences and express ideas through written communication

Fill up appropriate forms and activity logs in required format of the company

SA1.

SA2.







Perform Post-Tyre Fitter Servicing / Maintenance Activities

SA3. 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

- SA4. Read and understand manuals, health and safety instructions, memos, reports, job cards etc
- SA5. Read images, graphs, diagrams
- SA6. Understand the various coding systems as per company norms

Oral Communication

- SA6. Express statements, opinions or information clearly so that others can hear and understand
- SA7. Respond appropriately to any queries
- SA8. Communicate with teacher/trainer
- SA9. Communicate with people in a form and manner and using language that is open and respectful

Decision Making

B. Professional Skills

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

- SB1. Take a decision for any change/issue based on earlier successes (documented previous history)on similar issues
- SB2. Work out changes in case a new improved machine /equipment is added in the process or any new material/chemical is developed replacing existing one.
- SB3. Make changes in cycle time due to improved process.
- SB4. Use the standard operating procedure or trouble shooting manuals for trouble shooting and other reference documents approved by plant management
- SB5. Consult the peer group and superiors to arrive at a favourable decision.
- SB6. Use of standard available problem solving techniques for decision making
- SB7. Review and analyze the process steps to check on system non adherence and non conformity
- SB8. Review the current SOP and other standards for continuous improvement to facilitate decision making
- SB9. Take a calculated risk with minimum losses

Plan and Organize

- SB10. Suggest requirement for purchase of new machinery or updating of technology in processing operation
- SB11. Seek clarification on problems from teacher/trainer /other fellows

Customer Centricity







Perform Post-Tyre Fitter Servicing / Maintenance Activities

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	SB12.	Match customer needs/specification by adjusting the proc	essing conditions
		(interact with customer in case any clarification required)	

- SB13. Ensure that performance of his action/operation/activity does not lead to any divergence from the specified quality of the final product as required by the customer.
- SB14. Complete the assigned task in timely manner so that the final product is delivered in the timeline given by the customer.
- SB15. Communicate effectively to the superior/customer for any delay in supplies to the clients.
- SB16. Work towards fulfilling the customers requirement as per their demand.
- SB17. In case of any complaint, ensure its timely resolution if the problem is emanating at his level
- SB18. Communicate effectively to the superior/customer for any delay in resolving the problem faced by the customer.
- SB19. Maintain good/cordial relation with customers.
- SB20. Work on the feedback received from customer regarding the product.

Problem Solving

- SB21. Interpret quality for sheet
- SB22. Suggest improvements(if any) in process/product/materials based on results and experience

Analytical Thinking

- SB23. Identify the problems pertaining to the fitted/mounted/inflated tyre based on visual inspection
- SB24. Identify any damage caused to tyre while mounting and check for reasons.
- SB25. Diagnose common problems in the tyres based on visual inspection, sound etc
- SB26. Suggest improvements(if any) in process based on experience
- SB27. Optimal use of accessories ensuring minimal wastage
- SB28. Identify any damage caused to tyre while inflating and check for reasons.
- SB29. Optimal response to safety alarm

Critical Thinking

- SB30. Seek clarification on problems from others
- SB31. Apply problem-solving approaches in different situations
- SB32. Refer anomalies to the line manager



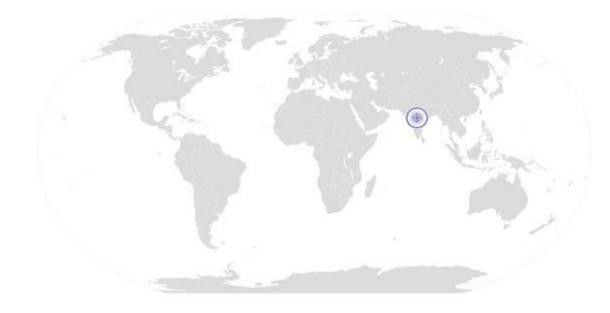




Perform Post-Tyre Fitter Servicing / Maintenance Activities

NOS Version Control

NOS Code	RSC/N3603		
Credits(NSQF)	TBD	Version number	2.0
Industry	Rubber Manufacturing	Drafted on	02/12/2014
Industry Sub-sector	Tyre	Last reviewed on	23/08/2017
Occupation	Tyre Servicing / Maintenance	Next review date	23/08/2021



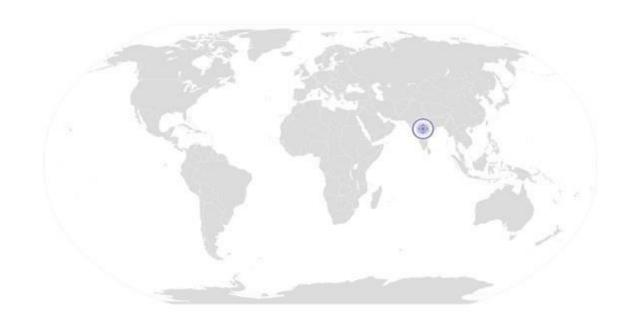
Back to QP







National Occupational Standard



Overview

This unit is about carrying out housekeeping



NOS National Occupational Standard



Carry Out Housekeeping In Rubber Product Manufacturing

Unit Code	RSC/N5001	
Unit Title	Carry out housekeeping in rubber product manufacturing	
(Task)		
Description	This unit is about carrying out housekeeping activities	
Scope	This unit/task covers the following:	
	Preparing for housekeeping activities	
	Carry out housekeeping operation	
	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 	
Housekeeping 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	







Carry Out Housekeeping In Rubber Product Manufacturing

Transf	orming	the skill	landsca

Post housekeeping	5
activities	

- PC15. Ensure that there is no oily substance on the floor to avoid slippage
- PC16. Ensure that no scrap material is lying around
- PC17. Maintain and store housekeeping equipment and supplies
- PC18. Follow workplace procedures to deal with any accidental damage caused during the cleaning process
- PC19. Ensure that, on completion of the work, the area is left clean and dry and meets requirements
- PC20. Return the equipment, materials and personal protective equipment that were 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
- PC23. Maintain schedules and records for housekeeping duty
- PC24. Replenish any necessary supplies or consumables

Knowledge and Understanding (K)

A. Organizational
Context
(Knowledge of
the company /
organization and
its processes)

- KA1. Importance of learning proper procedures and techniques
- KA2. Implications of not following the organizational requirement for approval for undertaking the specific task
- KA3. Importance of completing the activities as per the schedule
- Implications of not following the defined procedures/work instructions KA4.
- KA5. Importance of team work
- KA6. Health, Safety and Environment guidelines, legislation and regulations as
- KA7. Actions to be taken in case of non-conformity to behavioral standards of the organization
- KA8. Impact of poor practices on the individual's and organization's performance
- KA9. Importance of optimal utilization of resources
- KA10. Importance of providing feedback for improvement
- KA11. Importance of indigenous knowledge for evolving/adopting operation specific practices
- KA12. Rectification/solution of problems/conflicts for the smooth functioning of the organization
- KA13. Importance of documentation/reporting as per guidelines and procedures
- KA14. Knowledge of do's and don'ts (company's HR instructions)
- KA15. Importance of attending trouble shooting
- KA16. Importance of subject learning/training
- KA17. Importance of Product and its application







SC/N5001 Carry Out Housekeeping In Rubber Product Manufacturing

RSC/N5001	Carry Out Housekeeping In Rubber Product Manufacturing Transforming the skill landscape
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	
	KB1. The levels of hygiene required by workplace and why it is important to maintain
	them during your work
	KB2. How to inspect a work area to decide what cleaning it needs
	KB3. Methods and materials that used for cleaning variety of surfaces
	KB4. The types of cleansing agents that are not to be mixed together
	KB5. The correct method for cleaning equipment and/or machinery used during your
	work
	KB6. The importance of personal protective equipment
	KB7. Appropriate personal protective equipment for the work area, cleaning
	equipment, tools, materials and chemicals used
	KB8. The correct sequence for cleaning the work area
	KB9. The time taken by the treatment to work
	KB10. The importance of following manufacturer's instructions on cleaning agents
	KB11. The most appropriate place to carry out test cleans and why this should be
	done before applying treatments
	KB12. The importance of applying treatments evenly and the effect of not doing this
	KB13. Process of cleaning the surfaces without causing injury or damage
	KB14. The method to check the treated surface and equipment on completion of
	cleaning
	KB15. Procedures for reporting any unidentified soiling
	KB16. Procedures for disposing off waste
	KB17. Procedures for disposing off or storing personal protective equipment
	KB18. Escalation procedures for soils or stains that could not be removed
Skills (S)	
A. Core Skills/	Writing Skills
Generic Skills	The user/ individual on the job needs to know and understand how to:
	SA1. Construct simple sentences and express ideas clearly through written
	communication
	SA2. Fill up appropriate technical forms, process charts, activity logs in required
	format of the company
	SA3. Write simple letters, mails, etc
	SA4. Perform functional mathematical operations, including apply basic
	mathematical principles, such as numbers and space, and techniques such as
	estimation and approximation, for practical purposes
	Reading Skills
	SA5. Read and understand manuals, health and safety instructions, memos, reports,
	job cards etc
	SA6. Read images, graphs, diagrams







RUBBER SKILL DEVELOPMENT COUNCIL	Redonal Occupational Standards Composition				
RSC/N5001	Carry Out Housekeeping In Rubber Product Manufacturing Transforming the skill landscape				
	SA7. Understand the various coding systems as per company norms				
	Oral Communication				
	SA8. Express statements, opinions or information clearly so that others can hear and				
	understand				
	SA9. Respond appropriately to any queries				
	SA10. Communicate with teacher/trainer				
	SA11. Communicate with people in a form and manner and using language that is				
	open and respectful				
	Decision Making				
B. Professional Skills	The user/individual on the job needs to know and understand how to:				
	SB1. Take a decision for any change/issue based on earlier successes (documented				
	previous history)on similar issues				
	SB2. Work out changes in case a new improved machine/equipment is added in the				
	process or any new material/chemical is developed replacing existing one.				
	SB3. Make changes in cycle time due to improved process.				
	SB4. Use the standard operating procedure or trouble shooting manuals for trouble				
	shooting and other reference documents approved by plant management				
	SB5. Consult the peer group and superiors to arrive at a favourable decision.				
	SB6. Use of standard available problem solving techniques for decision making				
	SB7. Review and analyze the process steps to check on system non adherence and non conformity				
	SB8. Review the current SOP and other standards for continuous improvement to				
	facilitate decision making				
	SB9. Take a calculated risk with minimum losses				
	Plan and Organize				
	SB10. Suggest requirement for purchase of new machinery or updating of technology				
	in processing operation SB11. Seek clarification on problems from teacher/trainer /other fellows				
	3311. Seek claimeation on problems from teacher/trainer /other fellows				

Customer Centricity







Carry Out Housekeeping In Rubber Product Manufacturing

- Transforming the skill landscape
- SB12. Match customer needs/specification by adjusting the processing conditions (interact with customer in case any clarification required)
- SB13. Ensure that performance of his action/operation/activity does not lead to any divergence from the specified quality of the final product as required by the customer.
- SB14. Complete the assigned task in timely manner so that the final product is delivered in the timeline given by the customer.
- SB15. Communicate effectively to the superior/customer for any delay in supplies to the clients.
- SB16. Work towards fulfilling the customers requirement as per their demand.
- SB17. In case of any complaint, ensure its timely resolution if the problem is emanating at his level
- SB18. Communicate effectively to the superior/customer for any delay in resolving the problem faced by the customer.
- SB19. Maintain good/cordial relation with customers.
- SB20. Work on the feedback received from customer regarding the product.

Problem Solving

- SB21. Interpret quality for sheet
- SB22. Suggest improvements(if any) in process/product/materials based on results and experience

Analytical Thinking

- SB23. Identify the problems pertaining to the tools based on visual inspection and work efficiency
- SB24. Diagnose common problems in the tyre and related accessories based on visual inspection, sound, etc
- SB25. Suggest improvements(if any) in process based on experience
- SB26. Minimal wastage while undertaking tyre fitting
- SB27. Suggest improvements(if any) in process based on experience
- SB28. Minimize wastage of fabric while cutting plies of different sizes and carrying out wire cutting and slitting operations

Critical Thinking

- SB29. Seek clarification on problems from others
- SB30. Apply problem-solving approaches in different situations
- SB31. Refer anomalies to the line manager

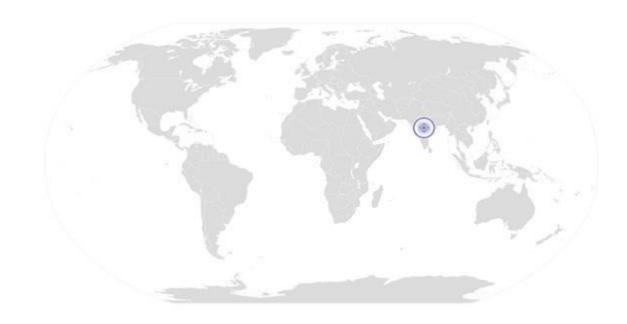






NOS Version Control

NOS Code	RSC/N5001		
Credits(NSQF)	TBD	Version number	2.0
Industry	Rubber Manufacturing	Drafted on	02/12/2014
Industry Sub-sector	Tyre	Last reviewed on	23/08/2017
Occupation	Tyre Servicing / Maintenance	Next review date	23/08/2021



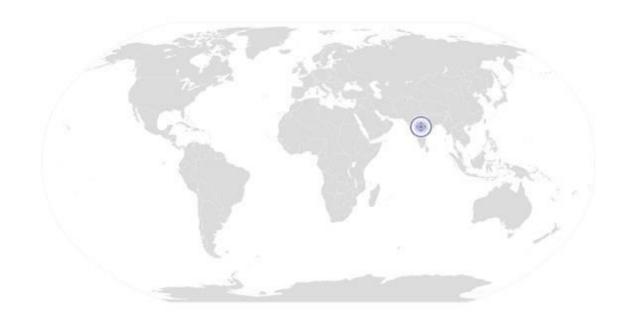






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National Occupational Standard



Overview



National Occupational Standards



Carry Out Reporting And Documentation

Unit Code	RSC/N5002			
Unit Title	Course out reporting and decompetation			
(Task)	Carry out reporting and documentation			
Description	This unit is about carrying out reporting and documentation			
Scope	This unit/task covers the following:			
	Reporting of data/problem/incidents etc			
	Recording and Documentation			
	Information Security			
Performance Criteria	(PC) w.r.t. the Scope			
Element	Performance Criteria			
Reporting of	To be competent, the user/individual on the job must be able to:			
data/problem	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	PC4. Identify documentation to be completed relating to one's role			
Documentation	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	PC9. Respond to requests for information in an appropriate manner whilst following			
Security	organizational procedures			
	PC10. Inform the appropriate authority of requests for information received			
Knowledge and Unde	erstanding (K)			
	The user/individual on the job needs to know and understand:			
A. Organizational				
Context	KA1. Importance of learning proper procedures and techniques			
(Knowledge of	KA2. Implications of not following the organizational requirement for approval for undertaking the specific task			
the company /	KA3. Importance of completing the activities as per the schedule			
organization and	KA3. Importance of completing the activities as per the schedule KA4. Implications of not following the defined procedures/work instructions			
its processes)	KA5. Importance of team work			
	KA6. Health, Safety and Environment guidelines, legislation and regulations as			
	applicable			
	KA7. Actions to be taken in case of non-conformity to behavioral standards of the			







RSC/N5002	Carry Out Reporting And Documentation	Transforming the skill landscape		
	organization			
	KA8. Impact of poor practices on the individual's and organize	ation's performance		
	KA9. Importance of optimal utilization of resources	Importance of optimal utilization of resources		
	KA10. Importance of providing feedback for improvement	. Importance of providing feedback for improvement		
	KA11. Importance of indigenous knowledge for evolving/adop	. Importance of indigenous knowledge for evolving/adopting operation specific		
	practices			
	KA12. Rectification/solution of problems/conflicts for the smo	oth functioning of the		
	organization			
	KA13. Importance of documentation/reporting as per guidelir	nes and procedures		
	KA14. Knowledge of do's and don'ts (company's HR instruction	ons)		
	KA15. Importance of attending trouble shooting			
	KA16. Importance of subject learning/ training			
	KA17. Importance of Product and its application			
B. Technical	The user/individual on the job needs to know and understand:			
Knowledge	,			
3.0	KB1. Different methods of recording information			
	KB2. Various documents that need to be maintained			
	KB3. Company procedure for filling/maintaining up the docur	ments		
	KB4. Procedures for reporting to the appropriate authority			
	KB5. Procedures for recording damage, breakages etc	N .		
	KB6. Reporting incidents where standard operating procedur	es are not followed		
	KB7. The importance of complete and accurate documentation			
	KB8. How to maintain complete documentation accurately a			
	timescales			
	KB9. The importance of ensuring that the documents are cor	rect		
	KB10. The actions to be taken if the documents are not correct			
	KB11. The importance of maintaining the security and confide			
	information	including of recorded		
	KB12. Procedures to maintain confidentiality of information			
	KB13. The appropriate method for responding to requests for	information		
	KB14. The reporting procedures to followed before disclosing			
	outside party	information to any		
	outside purty			
Skills (S)				
A. Core Skills/	Writing Skills			
Generic Skills	The user/ individual on the job needs to know and understand	how to:		
	SA1. Construct simple sentences and express ideas clearly th	rough written		
	communication			
	SA2. Fill up appropriate technical forms, process charts, activi	ity logs in required		
	format of the company			
	SA3. Write simple letters, mails, etc			
	SA4. Perform functional mathematical operations, including a	apply basic		







Carry Out Reporting And Documentation

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

Reading 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

- SA8. Express statements, opinions or information clearly so that others can hear and understand
- SA9. Respond appropriately to any queries
- SA10. Communicate with teacher/trainer
- SA11. Communicate with people in a form and manner and using language that is open and respectful

Decision Making

B. Professional Skills

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

- SB1. Take a decision for any change/issue based on earlier successes (documented previous history) on similar issues
- SB2. Work out changes in case a new improved machine/equipment is added in the process or any new material/chemical is developed replacing existing one.
- SB3. Make changes in cycle time due to improved process.
- SB4. Use the standard operating procedure or trouble shooting manuals for trouble shooting and other reference documents approved by plant management
- SB5. Consult the peer group and superiors to arrive at a favourable decision.
- SB6. Use of standard available problem solving techniques for decision making
- SB7. Review and analyze the process steps to check on system non adherence and non conformity
- SB8. Review the current SOP and other standards for continuous improvement to facilitate decision making
- SB9. Take a calculated risk with minimum losses

Plan and Organize

- SB10. Suggest requirement for purchase of new machinery or updating of technology in processing operation
- SB11. Seek clarification on problems from teacher/trainer /other fellows

Customer Centricity







Carry Out Reporting And Documentation

Transforming the skill landscape

- SB12. Match customer needs/specification by adjusting the processing conditions (interact with customer in case any clarification required)
- SB13. Ensure that performance of his action/operation/activity does not lead to any divergence from the specified quality of the final product as required by the customer.
- SB14. Complete the assigned task in timely manner so that the final product is delivered in the timeline given by the customer.
- SB15. Communicate effectively to the superior/customer for any delay in supplies to the clients.
- SB16. Work towards fulfilling the customers requirement as per their demand.
- SB17. In case of any complaint, ensure its timely resolution if the problem is emanating at his level
- SB18. Communicate effectively to the superior/customer for any delay in resolving the problem faced by the customer.
- SB19. Maintain good/cordial relation with customers.
- SB20. Work on the feedback received from customer regarding the product.

Problem Solving

- SB21. Interpret quality for sheet
- SB22. Suggest improvements(if any) in process/product/materials based on results and experience

Analytical Thinking

- SB23. Identify the problems pertaining to the tools based on visual inspection and work efficiency
- SB24. Diagnose common problems in the tyre and related accessories based on visual inspection, sound, etc
- SB25. Suggest improvements(if any) in process based on experience
- SB26. Minimal wastage while undertaking tyre fitting
- SB27. Suggest improvements(if any) in process based on experience
- SB28. Minimize wastage of fabric while cutting plies of different sizes and carrying out wire cutting and slitting operations

Critical Thinking

- SB29. Seek clarification on problems from others
- SB30. Apply problem-solving approaches in different situations
- SB31. Refer anomalies to the line manager

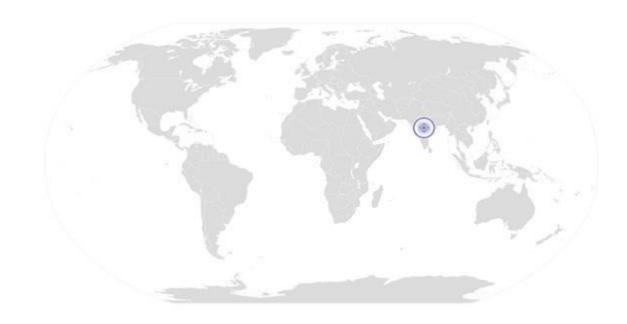


National Occupational Standards Carry Out Reporting And Documentation



NOS Version Control

NOS Code	RSC/N5002		
Credits(NSQF)	TBD	Version number	2.0
Industry	Rubber Manufacturing	Drafted on	02/12/2014
Industry Sub-sector	Tyre	Last reviewed on	23/08/2017
Occupation	Tyre Servicing / Maintenance	Next review date	23/08/2021

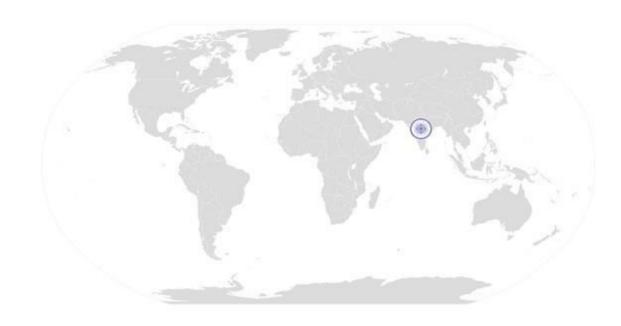








National Occupational Standard



Overview



National Occupational Standards Carry Out Quality Checks



Unit Code	RSC/N5003				
Unit Title					
(Task)	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 and inspection to identify problems				
	Analysis and take corrective actions				
	Reporting the results				
Performance Criteria	(PC) w.r.t. the Scope				
Element	Performance Criteria				
Quality checks and	To be competent, the user/individual on the job must be able to:				
inspection	PC1. Ensure that total range of checks are regularly and consistently performed				
	PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as				
	required				
Analysis and take	PC3. Identify non-conformities to quality assurance standards				
corrective actions	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 of results	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 Unde	2.1.				
A. Organizational	KA1. Importance of learning proper procedures and techniques				
Context	KA2. Implications of not following the organizational requirement for approval for				
(Knowledge of	undertaking the specific task				
the company /	KA3. Importance of completing the activities as per the schedule				
organization and	KA4. Implications of not following the defined procedures/work instructions				
its processes)	KAS. Importance of team work				
	KA6. Health, Safety and Environment guidelines, legislation and regulations as				
	applicable				
	KA7. Actions to be taken in case of non-conformity to behavioral standards of the				







RSC/N5003	Carry Out Quality Checks Transforming the skill landscape
	organization
	KA8. Impact of poor practices on the individual's and organization's performance
	KA9. Importance of optimal utilization of resources
	KA10. Importance of providing feedback for improvement
	KA11. Importance of indigenous knowledge for evolving/adopting operation specific
	practices
	KA12. Rectification/solution of problems/conflicts for the smooth functioning of the
	organization
	KA13. Importance of documentation/reporting as per guidelines and procedures
	KA14. Knowledge of do's and don'ts (company's HR instructions)
	KA15. Importance of attending trouble shooting
	KA16. Importance of subject learning/ training
	KA17. Importance of product and its application
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
	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)	
A. Core Skills/	Writing 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
	•
	SA4. Perform functional mathematical operations, including apply basic







Carry Out Quality Checks

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

- SA8. Express statements, opinions or information clearly so that others can hear and understand
- SA9. Respond appropriately to any queries
- SA10. Communicate with teacher/trainer
- SA11. Communicate with people in a form and manner and using language that is open and respectful

Decision Making

B. Professional Skills

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

- SB1. Take a decision for any change/issue based on earlier successes (documented previous history)on similar issues
- SB2. Work out changes in case a new improved machine / equipment is added in the process or any new material / chemical is developed replacing existing one.
- SB3. Make changes in cycle time due to improved process.
- SB4. Use the standard operating procedure or trouble shooting manuals for trouble shooting and other reference documents approved by plant management
- SB5. Consult the peer group and superiors to arrive at a favourable decision.
- SB6. Use of standard available problem solving techniques for decision making
- SB7. Review and analyze the process steps to check on system non adherence and non conformity
- SB8. Review the current SOP and other standards for continuous improvement to facilitate decision making
- SB9. Take a calculated risk with minimum losses

Plan and Organize

- SB10. Suggest requirement for purchase of new machinery or updating of technology in processing operation
- SB11. Seek clarification on problems from teacher/trainer /other

Customer Centricity







Carry Out Quality Checks

SB12. Match customer needs/specification by adjusting the processing conditions
(interact with customer in case any clarification required)

- SB13. Ensure that performance of his action/operation/activity does not lead to any divergence from the specified quality of the final product as required by the customer.
- SB14. Complete the assigned task in timely manner so that the final product is delivered in the timeline given by the customer.
- SB15. Communicate effectively to the superior/customer for any delay in supplies to the clients.
- SB16. Work towards fulfilling the customers requirement as per their demand.
- SB17. In case of any complaint, ensure its timely resolution if the problem is emanating at his level
- SB18. Communicate effectively to the superior/customer for any delay in resolving the problem faced by the customer.
- SB19. Maintain good/cordial relation with customers.
- SB20. Work on the feedback received from customer regarding the product.

Problem Solving

- SB21. Interpret quality for sheet
- SB22. Suggest improvements(if any) in process/product/materials based on results and experience

Analytical Thinking

- SB23. Identify the problems pertaining to the tools based on visual inspection and work efficiency
- SB24. Diagnose common problems in the tyre and related accessories based on visual inspection, sound, etc
- SB25. Suggest improvements(if any) in process based on experience
- SB26. Minimal wastage while undertaking tyre fitting
- SB27. Suggest improvements(if any) in process based on experience
- SB28. Minimize wastage of fabric while cutting plies of different sizes and carrying out wire cutting and slitting operations

Critical Thinking

- SB29. Seek clarification on problems from others
- SB30. Apply problem-solving approaches in different situations
- SB31. Refer anomalies to the line manager







NOS Version Control

NOS Code	RSC/N5003				
Credits(NSQF)	TBD	Version number	2.0		
Industry	Rubber Manufacturing	Drafted on	02/12/2014		
Industry Sub-sector	Tyre	Last reviewed on	23/08/2017		
Occupation	Tyre Servicing / Maintenance	Next review date	23/08/2021		

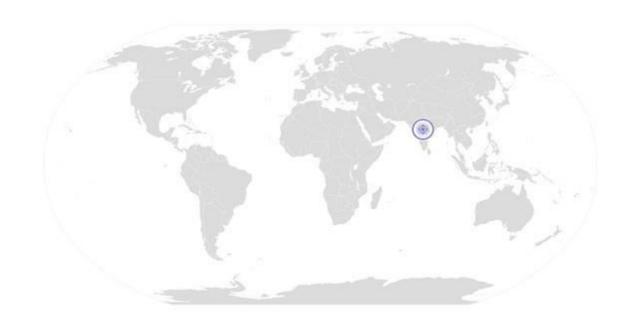








National Occupational Standard



Overview

This unit is about problem identification and escalation



NOS National Occupational Standards



Carry out problem identification and escalation

Unit Code	RSC/N5004			
Unit Title (Task)	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			
	o Compounds			
	o Product			
	o Equipment			
	o Others			
	Identify solutions to problems and 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: RC1 Identify defects / indicators of problems			

Performance Criteria	Performance Criteria (PC) w.r.t. the Scope					
Element	Performance Criteria					
Problem Identification	PC1. Identify defects/indicators of problems PC2. Identify any wrong practices that may lead to problems PC3. Identify practices that may impact the final product quality PC4. Identify if the problem has occurred before PC5. Identify other operations that might be impacted by the problem PC6. Ensure that no delays are caused as a result of failure to escalate problems					
Necessary Action	PC7. Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required) PC8. Consider possible reasons for identification of problems PC9. Consider applicable corrections and formulate corrective action PC10. Formulate action in a timely manner PC11. Communicate problem/remedial action to appropriate parties PC12. Take corrective action in a timely manner PC13. Take corrective action for problems identified according to the company procedures PC14. Report/document problem and corrective action in an appropriate manner PC15. Monitor corrective action PC16. Evaluate implementation of corrective action taken to determine if the problem has been resolved PC17. Ensure that corrective action selected is viable and practical					







	Transforming the skill landscape
	PC18. Ensure that correct solution is identified to an identified problem
	PC19. Take corrective action for problems identified according to the company
	procedures
	PC20. Ensure that no delays are caused as a result of failure to take necessary action
Problem Escalation	PC21. Escalate problem as per laid down escalation matrix
	PC22. Escalate the problem within stipulated time
	PC23. Escalate the problem in an appropriate manner
	PC24. Ensure that no delays are caused as a result of failure to escalate problems
Knowledge and Under	rstanding (K)
A. Organizational	KA1. Importance of learning proper procedures and techniques
Context	KA2. Implications of not following the organizational requirement for approval for
(Knowledge of	undertaking the specific task
the company /	KA3. Importance of completing the activities as per the schedule
organization and	KA4. Implications of not following the defined procedures/work instructions
its processes)	KA5. Importance of team work
	KA6. Health, Safety and Environment guidelines, legislation and regulations as
	applicable
	KA7. Actions to be taken in case of non-conformity to behavioral standards of the
	organization
	KA8. Impact of poor practices on the individual's and organization's performance
	KA9. Importance of optimal utilization of resources
	KA10. Importance of providing feedback for improvement
	KA11. Importance of indigenous knowledge for evolving/adopting operation specific
	practices
	KA12. Rectification/solution of problems/conflicts for the smooth functioning of the
	organization
	KA13. Importance of documentation/reporting as per guidelines and procedures
	KA14. Knowledge of do's and don'ts (company's HR instructions)
	KA15. Importance of attending trouble shooting
	KA16. Importance of subject learning/ training
	KA17. Importance of Product and its application
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	
	KB1. Indicators of problems
	KB2. The working of the equipment and accessories (if applicable)
	KB3. The impact of operations on the user and equipment (if applicable)
	KB4. The impact of operations on the final product (if applicable)
	KB5. The effect of not rectifying the problems identified
	KB6. The reason for the occurrence of previous problems
	KB7. Measures and steps that have been taken to address the previous problems
	KB8. Possible solutions for various problems







Skills (S)	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 Writing Skills The user/ individual on the job needs to know and understand how to:
A. Core Skills/ Generic Skills	SA1. Construct simple sentences and express ideas clearly through written communication SA2. Fill up appropriate technical forms, process charts, activity logs in required format of the company SA3. Write simple letters, mails, etc SA4. Perform functional mathematical operations, including apply basic mathematical principles, such as numbers and space, and techniques such as estimation and approximation, for practical purposes Reading Skills SA5. Read and understand the course content SA6. Read images, graphs, diagrams
	SA7. Follow the notices and instructions. SA8. Read and understand machinery/equipment manuals SA9. Read and understand the contents published in scientific journals, newspapers and other publications SA10. Read and understand scientific terminologies, codes, abbreviations etc
	Oral Communication
	SA11. Express statements, opinions or information clearly so that others can hear and understand
	SA12. Respond appropriately to any queries SA13. Communicate with teacher/trainer
	SA14. Communicate with people in a form and manner and using language that is
	open and respectful
	Decision Making
B. Professional Skills	The user/individual on the job needs to know and understand how to:
	SB1. Take a decision for any change/issue based on earlier successes (documented previous history)on similar issues







	Trans	form	ing t	he s	kill	lanc	lscap	e
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- SB2. Work out changes in case a new improved machine / equipment is added in the process or any new material / chemical is developed replacing existing one.
 - SB3. Make changes in cycle time due to improved process.
 - SB4. Use the standard operating procedure or trouble shooting manuals for trouble shooting and other reference documents approved by plant management
 - SB5. Consult the peer group and superiors to arrive at a favourable decision.
 - SB6. Use of standard available problem solving techniques for decision making
 - SB7. Review and analyze the process steps to check on system non adherence and non conformity
 - SB8. Review the current SOP and other standards for continuous improvement to facilitate decision making
- SB9. Take a calculated risk with minimum losses

Plan and Organize

- SB10. Suggest requirement for purchase of new machinery or updating of technology in processing operation
- SB11. Seek clarification on problems from teacher/trainer /other

Customer Centricity

- SB12. Match customer needs/specification by adjusting the processing conditions (interact with customer in case any clarification required)
- SB13. Ensure that performance of his action/operation/activity does not lead to any divergence from the specified quality of the final product as required by the customer.
- SB14. Complete the assigned task in timely manner so that the final product is delivered in the timeline given by the customer.
- SB15. Communicate effectively to the superior/customer for any delay in supplies to the clients.
- SB16. Work towards fulfilling the customers requirement as per their demand.
- SB17. In case of any complaint, ensure its timely resolution if the problem is emanating at his level
- SB18. Communicate effectively to the superior/customer for any delay in resolving the problem faced by the customer.
- SB19. Maintain good/cordial relation with customers.
- SB20. Work on the feedback received from customer regarding the product.

Problem Solving

- SB21. Interpret quality for sheet
- SB22. Suggest improvements(if any) in process/product/materials based on results and experience

Analytical Thinking





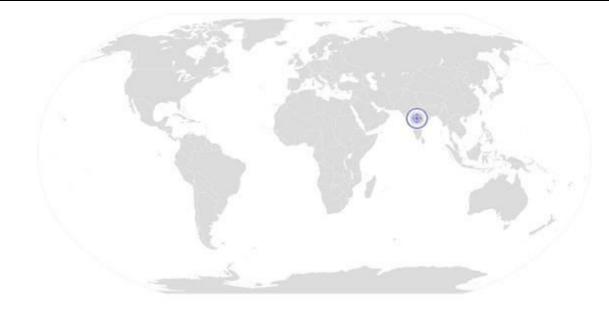


SB23. Identify the problems pertaining to the tools based on visual inspection and	
work efficiency	

- SB24. Diagnose common problems in the tyre and related accessories based on visual inspection, sound, etc
- SB25. Suggest improvements(if any) in process based on experience
- SB26. Minimal wastage while undertaking tyre fitting
- SB27. Suggest improvements(if any) in process based on experience
- SB28. Minimize wastage of fabric while cutting plies of different sizes and carrying out wire cutting and slitting operations

Critical Thinking

- SB29. Seek clarification on problems from others
- SB30. Apply problem-solving approaches in different situations
- SB31. Refer anomalies to the line manager









NOS Version Control

NOS Code	RSC/N5004				
Credits(NSQF)	TBD Version number 2.0				
Industry	Rubber Manufacturing	Drafted on	02/12/2014		
Industry Sub-sector	Tyre	Last reviewed on	23/08/2017		
Occupation	Tyre Servicing / Maintenance	Next review date	23/08/2021		



Back to QP







National Occupational Standard



Overview

This unit is about maintaining health and safety of self and others at workplace.



National Occupational Standards Carry out health and safety



Unit Code	RSC/N5007
Unit Title (Task)	Carry out health and safety
Description	This unit is about maintaining health and safety of self and others at workplace.
Scope	 This unit/task covers the following: Maintain a clean and efficient workplace Render appropriate emergency procedures Maintain standard safety procedures at the workplace Participate in safety awareness campaigns Understand potential sources of accidents Use safety gears to avoid accidents

	Use safety gears to avoid accidents			
Performance Criteria (F	PC)			
Maintain a clean and efficient workplace	To be competent, the individual on the job must be able to: PC1. Undertake basic safety checks before operation of all machinery and equipment and report hazards to the appropriate supervisor PC2. Identify the work for which protective clothing or equipment is required and the appropriate protective clothing or equipment is used in performing these duties in accordance with workplace policy. PC3. Read and understand the hazards of use and contamination mentioned on the labels of chemicals, utilities etc PC4. Assess the risk prior to performing manual handling jobs and work is carried out according to currently recommended safe practices. PC5. Use equipment and materials safely and correctly and return the same to designated storage when not in use PC6. Dispose off waste safely and correctly in a designated area PC7. Recognize the risk to bystanders and take action to reduce risk associated with jobs in the workplace PC8. Perform work in a manner which minimizes environmental damage PC9. Monitor closely all procedures and work instructions for controlling risk PC10. Report any accidents, incidents or problems without delay to an appropriate person and take immediate necessary action to reduce further danger.			
Render appropriate emergency procedures	 PC11. Follow procedures for dealing with accidents, fires and emergencies, including communicating location and directions to emergency. PC12. Follow emergency procedures as per company standards and workplace requirements. PC13. Use Emergency equipment in accordance with manufacturers' specifications and workplace requirements. PC14. Provide treatment appropriate to the patient's injuries in accordance with recognized first aid techniques. PC15. Recover (if practical), clean, inspect/test, refurbish, replace and store the first 			



NOS ational Occupational Standards



Carry out health and safety

	nansionning the skill falloscape			
	aid equipment as appropriate			
	PC16. Dispose off medical waste in accordance with workplace requirements			
	PC17. Report details of first aid administered in accordance with work place			
	procedures.			
Maintain standard	DC19. Comply with general cafety procedures			
safety procedures at	PC18. Comply with general safety procedures			
the workplace	PC19. Follow standard safety procedures while handling equipment, hazardous material or tool			
, , , , , , , , , , , , , , , , , , ,				
	PC20. Check parts of the workplace and take preventive actions like spraying and			
	other steps to protect from leakages, water logging, pests, fire, pollution, etc.			
	PC21. Ensure no accidents and damages at the workplace, reporting of any breach of			
	company safety procedure			
	PC22. Keep the workplace organized, swept, clean and hazard free			
Participate in safety	PC23. Attend fire drills and other safety related workshops organized at the			
awareness campaigns	workplace			
	PC24. Awareness about first aid, evacuation and emergency procedures			
	PC25. Ensuring all safety procedures are followed without neglecting any event			
Understand potential	PC26. Avoid accidents while using hazardous chemicals, machines, sharp tools and			
sources of accidents	equipment			
Use safety gears to	PC27. Use safety materials such as protective gear, goggles, caps, shoes, etc. (as			
avoid accidents	applicable with workplace)			
	PC28. Handle heavy and hazardous materials with care and using appropriate			
	tools and handling equipment such as trolleys, ladders			
	n to			
Knowledge and Under				
	The individual on the job needs to know and understand:			
A. Organizational	KA1. Policies on incentives, delivery standards, and personnel management			
context	KA2. Occupational safety and health policy followed			
	KA3. Emergency evacuation procedure			
	KA4. Medical policy			
	KA5. Company laws and acts			
	KB1. The risks to health and safety and the measures to be taken to control those			
B. Technical	risks in the area of work			
knowledge	KB2. Workplace procedures and requirements for the handling of workplace			
660	injuries/illnesses.			
	KB3. Basic emergency first aid procedure			
	KB4. Local emergency services			
	KB5. Reporting on accidents, incidents and problems to appropriate authorities.			
	KB6. How to use machines as per standard operating procedure			
	KB6. How to use machines as per standard operating procedure			



NOS ational Occupational Standards



Carry out health and safety

3C/N3007	Transforming the skill landscape			
	KB10. Personal hygiene and fitness requirements			
	KB11. General duties under the relevant health and safety legislation			
	KB12. What personal protective equipment and clothing should be worn and how it			
	cared for			
	KB13. The correct and safe way to use materials and equipment required for work			
	KB13. The correct and safe way to use materials and equipment required for work KB14. The importance of good housekeeping in the workplace			
	KB15. Safe disposal methods for waste			
	KB16. Methods for minimizing environmental damage during work			
Skills (S)	KB10. Wethous for minimizing environmental admage during work			
A. Core Skills/	Writing Skills			
Generic Skills	The individual on the job needs to know and understand how to:			
	SA1 Becard data which are required for record keeping nurnece			
	SA1. Record data which are required for record keeping purpose			
	SA2. Report problems to the appropriate person in a timely manner			
	SA3. Write descriptions and details about incidents in reports			
	Reading Skills			
	SA4. Read instruction manuals for hand tools and equipment			
	SA5. Read instructions on work orders and procedures			
	Oral Communication			
	SA6. Receive instructions and seek advice from superiors			
	SA7. Communicate clearly and effectively with others			
B. Professional Skills	Decision Making			
	The individual on the job needs to know and understand how to:			
	SB1. Take a decision for any change/issue based on earlier successes (documented			
	previous history)on similar issues			
	SB2. Work out changes in case a new improved machine / equipment is added in			
	the process or any new material / chemical is developed replacing existing			
	one.			
	SB3. Make changes in cycle time due to improved process.			
	SB4. Use the standard operating procedure or trouble shooting manuals for			
	trouble shooting and other reference documents approved by plant			
	management			
	SB5. Consult the peer group and superiors to arrive at a favourable decision.			
	SB6. Use of standard available problem solving techniques for decision making			
	SB7. Review and analyze the process steps to check on system non adherence and			
	non conformity			
	SB8. Review the current SOP and other standards for continuous improvement to			
	facilitate decision making			
	SB9. Take a calculated risk with minimum losses			





Carry out health and safety



Plan and Organize

SB10. Schedule daily activities and drawing up priorities; allocate start times, estimation of completion times and materials, equipment and assistance required for completion.

Customer Centricity

- SB11. Match customer needs/specification by adjusting the processing conditions (interact with customer in case any clarification required)
- SB12. Ensure that performance of his action/operation/activity does not lead to any divergence from the specified quality of the final product as required by the customer.
- SB13. Complete the assigned task in timely manner so that the final product is delivered in the timeline given by the customer.
- SB14. Communicate effectively to the superior/customer for any delay in supplies to the clients.
- SB15. Work towards fulfilling the customers requirement as per their demand.
- SB16. In case of any complaint, ensure its timely resolution if the problem is emanating at his level
- SB17. Communicate effectively to the superior/customer for any delay in resolving the problem faced by the customer.
- SB18. Maintain good/cordial relation with customers.
- SB19. Work on the feedback received from customer regarding the product.

Problem Solving

SB20. Use first aid treatment in case of any injury/accident.

Analytical Thinking

- SB21. Monitor and maintain the condition of tools and equipment
- SB22. Assess situation & identify appropriate control measures

Critical Thinking

SB23. Act, communicate and report in emergency situation

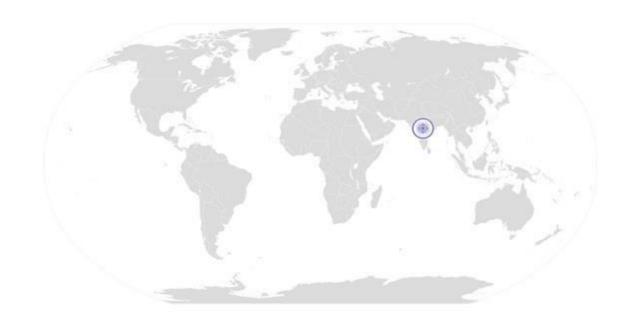






NOS Version Control

NOS Code	RSC/N5007		
Credits(NSQF)	TBD	Version number	2.0
Industry	Rubber Manufacturing	Drafted on	02/12/2014
Industry Sub-sector	Tyre & Non Tyre	Last reviewed on	23/08/2017
Occupation	Tyre Servicing / Maintenance	Next review date	23/08/2021

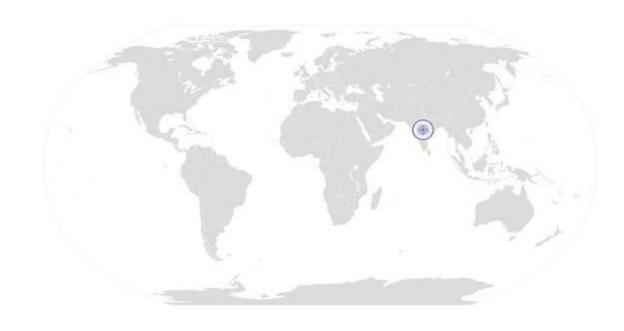








National Occupational Standard



Overview

This unit is about skill of entrepreneurship.







Unit Code	RSC/N5013		
Unit Title (Task)	Develop Entrepreneurship Skills		
Description	This unit is about entrepreneurship.		
Scope	 This unit/task covers the following tasks: Identification of business opportunity Sustain existing business and make continual improvement Organizing/Directing the factors of production (productivity) Undertaking risk and initiative Innovation and be a role model Keep watch and improve on quality, cost, safety, delivery and moral Documentation 		

Performance Criteria(PC) w.r.t. tl	he scope
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Element	Performance Criteria
Business opportunity	To be competent, the individual on the job must be able to know and understand: PC1. Awareness to identify profitable business opportunity (Opportunity can be in the form of new material in use, new process, new technology, new market etc) PC2. Maintain the confidentiality till the completion of working on the idea PC3. Discuss the opportunity (with trusted ones) to evaluate its feasibility PC4. Arrange/organize related documents/information
Sustain existing business	PC5. Monitor the development at competitors' end PC6. Sustain existing business and make continual improvements PC7. Evaluate possibilities of process simplification, combining process steps(wherever applicable), reducing manpower dependency PC8. Acquire new information for optimal allocation of resources before others to gain profit
Factors of Production	PC9. Understanding the requirement of different factors of production: land, labour and capital PC10. Acquire and deploy necessary resources for exploitation of identified business opportunity PC11. Develop a business plan PC12. Acquire financial and material resources PC13. Organize to hire experienced and efficient human resource PC14. Arrange for best factory set up PC15. Raise capital from different sources keeping the interest cost at minimum PC16. Arrange for purchase, effective utilization and management of the resources







PC17. Assume risk and deal with uncertainty			
PC18. Take initiative to start something new (process, product etc.)			
PC19. Convert new idea into successful innovation PC20. Replace in whole or in part inferior offerings creating new products/business model PC21. Develop new combinations of existing inputs			
PC22. Work competitively towards reduction of cost through efficiency, improvement in quality, bring in new product/features of product Acquire semi or fully automatic units for improved productivity			
PC23. Collection and recording of all information PC24. Compilation, analysis and documentation PC25. Correspondence with vendors, clients, govt. agencies and public PC26. Document notifications/letters from Government agencies and management erstanding (K)			
 The user/individual on the job needs to know and understand: KA1. Efficient organization and management of factors of production KA2. Planning and organizing activities through administrative and financial management KA3. Analyzing shortfall/achievement for further improvement KA4. Importance of maintaining confidentiality of new business plan KA5. Documentation for self-awareness and publication KA6. Procedures for presenting/discussing new business opportunity KA7. Procedures for approval of new plan 			
The user/individual on the job needs to know and understand: KB1. Cost-benefit analysis of the business opportunity KB2. Finance management procedures KB3. Environmental issues and quality standards KB4. Taking advantage of market opportunities by planning, organizing and deploying resources KB5. Human resource management KB6. Data collection, analysis and documentation KB7. Computer application- data processing, report typing etc. KB8. Importance of patent and copyright KB9. Latest technology in use to gather information KB10. Implications of delay in working on identified business opportunity KB11. Effect of disclosing innovations without following set procedures			







C/N5013	Develop Entrepreneurship Skills	Transforming the skill la
A. Core Skills/	Writing Skills	
Generic Skills	The user/ individual on the job needs to know and understand ho	w to:
	SA1. Express ideas clearly through written document	
	SA2. Prepare letters, mails and other documents for communic	ation
	SA3. Prepare proposals and feedback to higher authorities	
	SA4. Correspond with other institutions/department	
	SA5. Report writing, organizing data and information using con	nputer
	applications	
	Reading Skills	
	SA6. Read and understand the contents published in scientific	ournals,
	manuals, newspaper and other publications	
	SA7. Read, understand and interpret various rules, schemes et	
	SA8. Read and understand images, graphs, charts, diagrams etc.	. .
	SA9. Read and understand articles and interpret	
	Oral Communication	
	SA10. Gather information using contacts	
	SA11. Express statements, opinions or information clearly so that	t the
	receiver can hear and understand	
	SA12. Respond appropriately to queries	
	SA13. Communicate effectively to team members and people co	ntacted
B. Professional Skills	Decision Making	
SKIIIS	The user/individual on the job needs to know and understand how	v to:
	SB1. Arrive at proper decisions according to different situations	5
	SB2. Take forward selected ideas and reject others	
	SB3. Optimally allocate resources	
	SB4. Chart out the process flow to take the identified ideas for	ward
	Plan and Organize	
	SB5. Plan and organize the factors of production to execute the	business
	plan	
	SB6. Fix up tasks and allotment of the same	
	SB7. Assign tasks to suitable persons	
	SB8. Motivate them for better output and time bound complet	ion of tasks
	Customer Centricity	
	SB9. Correspond effectively with clients relating to product fee	dback and for
	communicating/collecting any other information.	
	Problem Solving	







SB11. Solve problems among colleagues

SB12. Diagnose problems and resolve at initial stage itself

Analytical Thinking

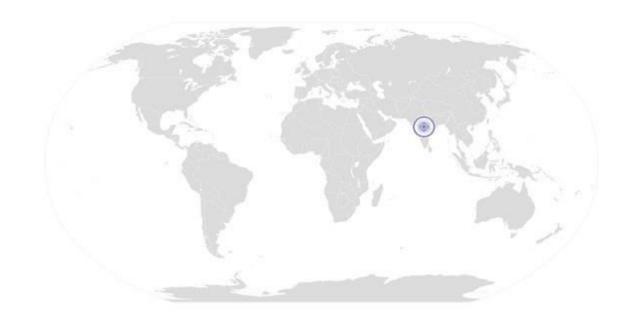
SB13. Suggest improvement over the existing systems

SB14. Analyze the feasibility of opportunities

SB15. Perform cost-benefit analysis

Critical Thinking

SB16. Take appropriate action/seek expert opinion to overcome critical situations









NOS Version Control

NOS Code	RSC/N5013		
Credits(NSQF)	TBD	Version number	2.0
Industry	Rubber Manufacturing	Drafted on	02/12/2014
Industry Sub-sector	Tyre & Non Tyre	Last reviewed on	23/08/2017
Occupation	Tyre Servicing / Maintenance	Next review date	23/08/2021



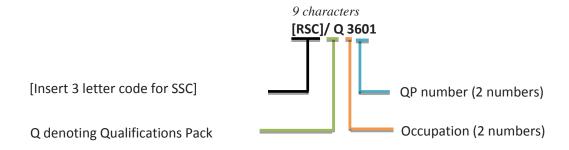




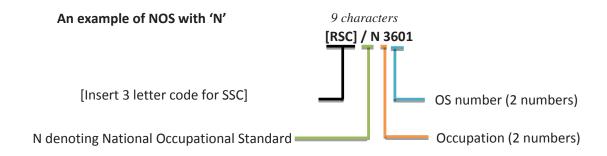
Annexure

Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard



Back to top...





The following acronyms/codes have been used in the nomenclature above:

Sub-sector	Range of Occupation numbers
Latex	02-34
Non-tyre	12-12
Rubber Manufacturing	28-28
Tyre	02-36
Tyre & Non -Tyre	01-37

Sequence	Description	Example
Three letters	Industry name	[RSC]
Slash	/	/
Next letter	Whether Q P or NOS	N
Next two numbers	Occupation code	36
Next two numbers	OS number	01





Criteria For Assessment Of Trainees

Job Role: Tyre Fitter-Servicing and Maintenance

Qualification Pack Code: RSC/Q3601

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. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
- 4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
- 5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
- 6. To pass the Qualification Pack, every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.
- 7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Compulsory NOS Total Marks: 700				arks cation	
Assessment outcomes	Assessment Criteria for outcomes	Tota I Mar ks	Out Of	The ory	Skills Practi cal
RSC/N3601 Prepare material, tools and	PC1. Ensure the availability of all required tools and equipments (such as air compressor, electric motor, hand pump, knife, hand buffing machine, awl, hand stitchers, crowbars, hydraulic assembly for removing used tyre from rim etc) for tyre servicing/maintenance	100	4	2	2
	PC2. Ensure that the tools are clean and well maintained.		6	3	3
	PC3. Check the sharpness of the knife for the cutting purpose.		6	4	2
	PC4. Ensure that the pressure gauges (Mounted or hand carried)for checking inflation pressure is available		5	2	3
machine for tyre	PC5. Ensure safety shield /cage is in place while inflating the tyre		5	2	3
fitter servicing/mainte	PC6. Check the functioning of safety alarm which signals once the offset limit for inflation pressure is reached		6	4	2
nance	PC7. Place the tools on a safe location.		5	3	2
	PC8. Ensure that tube/flap/valve to be used is approved by the QA/QC.		2	0	2
	PC9. Perform visual inspection of the tyre for any defect		7	5	2
	PC10. Check the availability of tyre, tube, & rim with reference to the given job schedule		7	5	2





PC11. Check the rim for cleanliness, corrosion or damage; PC12. Prepare soap solution to facilitate tyre mounting PC13. Ensure rubber gum sheet, adhesive cement and solvent are available PC14. Ensure the gum sheets are well protected with poly ethylene sheets to keep them tacky and non-bloomy PC15. Ensure the cement adhesive to be used is fresh out of stored drums and are of correct cod PC16. Ensure the supply of Air/Nitrogen for inflation PC17. Ensure the use of certified/tested fitting tools and equipment and check their functioning. PC18. Ensure safety shield/cage is in place while inflating the tyre(both tube and tubeless tyres) PC19. Adhere to all safety norms (such as wearing protective gloves, masks and shoes). PC20. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards. **Total** PC1. Ensure, through visual inspections, that all the accessories required are of the desired quality. PC2. Check the availability of required tyres, tubes, flaps, o rings rims PC3. Check the availability of tyre in case of replacement PC4. Perform tyre fitment (for new /replacement/ for in-house indoor testing as per the SOP PC5. Carry out proper positioning of tyre, tube and flap to rim PC6. Match position for rim hole with tube valve and flap PC7. Check for calibration stickers on pressure gauge PC8. Ensure the use of certified hand pressure gauge PC9. Open the valve, set pressure and inflate tyre(for new /used/in-house) as per the SOP RSC/N3602 PC10. Remove and fit the valve cap **Undertake tyre** PC11. Carry out proper inflation i.e.in the optimal range as per the fitter regulation/or as specified by the technical w.r.t different types of servicing/mainte tyres nance PC12. Check for leakage PC13. Get the tube repaired/replaced in case of defect PC14. Respond to safety alarm and deflate to achieve the specified inflation level PC15. Proper handling of machine and tools to avoid any injury/accident PC16. Usage of safety frame/metallic cage as in case of explosion tyre pieces does not come out PC17. Adhere to all safety norms (such as wearing protective gloves and shoes, safety mask etc) PC18. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards. Total PC1. Clean tools and keep the tools at designated place after the





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	completion of fitting/inflation operation.				
	PC2. Organize to keep the fitted and inflated tyres appropriately.		11	6	5
	PC3. Remove the replaced tyres from the fitting area; send the		11	6	Г
	wastage to the appropriate place for re-use or disposal		11	б	5
RSC/N3603	PC4. Report any problem related to tools, equipments, machine,		11	6	5
Perform post-tyre	tyres, material etc to the Supervisor				,
fitter	PC5. Dispose of waste material safely, as per organizational SOP.	100	9	5	4
servicing/mainte	PC6. Store usable cut ends of rubber gum sheets for recalendering		9	5	4
nance activities	and usage PC7. Marking tyres for any issues.		9	5	4
			9	5	4
	PC8. Place ID tags to indicate tyre size , date and time of mounting/fitment		9	5	4
	PC9. Handle the material using hand gloves and other safety				
	equipment.		8	4	4
	PC10. Adhere to all safety norms (such as wearing protective gloves,		6	-	0
	shoes, safety goggles etc).		В	6	U
	PC11. Comply with health, safety, environment guidelines and				
	regulations in accordance with international/national standards or the		6	6	0
	organizational standards. Total		400	60	40
			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
	PC4. Select the suitable alternatives for cleaning the areas in case the		3	3	
	appropriate equipment and materials are not available and inform the				0
	appropriate person				
	PC5. Plan the sequence for cleaning the area to avoid re-soiling clean		3	3	0
	areas and surfaces 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
DSC/NEOO1	PC8. Ensure that there is adequate ventilation for the work being carried out		3	3	0
RSC/N5001 Carry out	PC9. Wear the personal protective equipment required for the				
housekeeping in	cleaning method and materials being used	100	3	3	0
rubber product	PC10. Use the correct cleaning method for the work area, type of		3	3	0
manufacturing	soiling and surface				
	PC11. Carry out cleaning activity without disturbing others		3	3	0
	PC12. Deal with accidental damage, if any, caused while carrying out		3	3	0
	the work 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		2	2	0
	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		9	3	6
	slippage				
	PC16. Ensure that no scrap material is lying around		9	3	6
	PC17. Maintain and store housekeeping equipment and supplies		3	3	0
	PC18. Follow workplace procedures to deal with any accidental		3	3	0
	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 PC23. Maintain schedules and records for housekeeping duty PC24. Replenish any necessary supplies or consumables Total 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 PC4. Identify documentation to be completed relating to one's role PC5. Record details accurately an appropriate format RSC/N5002 PC6. Complete all documentation within stipulated time according to **Carry Out** company procedure **Reporting And** PC7. Ensure that the final document meets with the requirements of **Documentation** the persons who requested it or make any amendments accordingly PC8. Make sure documents are available to all appropriate authorities PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures PC10. Inform the appropriate authority of requests for information received **Total** PC1. Ensure that total range of checks are regularly and consistently PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as required PC3. Identify non-conformities to quality assurance standards PC4. Identify potential causes of non-conformities to quality assurance standards 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 RSC/N5003 PC7. Suggest corrective action to address problem **Carry Out Quality Checks** PC8. Review effectiveness of corrective action PC9. Interpret the results of the quality check correctly PC10. Take up results of the findings with QC in charge/appropriate 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 O





	be identified				
	Total		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
	PC3. Identify practices that may impact the final product quality		6	3	3
	PC4. Identify if the problem has occurred before		5	3	2
	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
	PC10. Formulate action in a timely manner		3	3	0
	PC11. Communicate problem/remedial action to appropriate parties		7	5	2
RSC/N5004	PC12. Take corrective action in a timely manner		2	2	0
Carry Out Problem	PC13. Take corrective action for problems identified according to the company procedures	100	2	2	0
Identification And Escalation	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 escalation matrix		4	3	1
	PC22. Escalate the problem within stipulated time		4	3	1
	PC23. Escalate the problem in an appropriate manner		3	2	1
	PC24. Ensure that no delays are caused as a result of failure to escalate problems		3	2	1
	Total		100	70	30
	PC1. Undertake basic safety checks before operation of all machinery and equipment and report hazards to the appropriate supervisor		6	4	2
RSC/N5007 - Carry Out Health and Safety	PC2. Work for which protective clothing or equipment is required is identified and the appropriate protective clothing or equipment is used in performing these duties in accordance with workplace policy.		6	4	2
	PC3. Read and understand the hazards of use and contamination mentioned on the labels of chemicals, utilities etc	100	0	0	0
	PC4. Prior to performing manual handling jobs, risk is assessed and work is carried out according to currently recommended safe practices.		6	4	2
	PC5. Use equipment and materials safely and correctly and return the same to designated storage when not in use		0	0	0





PC6.Dispose off waste safely and correctly in a designated area		6	4	2
PC7. Risks to bystanders are recognized and action taken to reduce	-	0	0	0
risk associated with jobs in the workplace		0	0	0
PC8. Perform work in a manner which minimizes environmental		0	0	0
damage	-	0	-	0
PC9. All procedures and work instructions for controlling risk are		0	0	0
followed closely.	-			
PC10. Report any accidents, incidents or problems without delay to an		0	0	0
appropriate person and take immediate necessary action to reduce further danger.		0	0	0
PC11.Follow procedures for dealing with accidents, fires and	-			
emergencies, including communicating location and directions to		6	4	2
emergency.		U	4	2
PC12.Follow emergency procedures as per company standards and	-			
workplace requirements.		8	5	3
PC13.Use Emergency equipment in accordance with manufacturers'	-	_	_	_
specifications and workplace requirements.		8	5	3
PC14. Provide treatment appropriate to the patient's injuries in	-	0	0	0
accordance with recognized first aid techniques.		0	0	0
PC15. Recover (if practical), clean, inspect/test, refurbish, replace and		0	0	0
store the first aid equipment as appropriate		U	U	U
PC16. Dispose off medical waste in accordance with workplace		0	0	0
requirements	-	0	0	0
PC17.Report details of first aid administered in accordance with work		7	4	3
place procedures.			•	<u> </u>
PC18. Comply with general safety procedures	-	8	4	4
PC19. Check parts of the workplace and take preventive actions like				
spraying and other steps to protect from leakages, water logging,		8	5	3
pests, fire, pollution, etc.	-			
PC20. Ensure no accidents and damages at the workplace, reporting		0	0	0
of any breach of company safety procedure	-	_		
PC21. Keep the workplace organized, swept, clean and hazard free	-	8	5	3
PC22. Attend fire drills and other safety related workshops organized		4	2	2
at the workplace	-	•	_	
PC23. Be aware of first aid, evacuation and emergency procedures		4	2	2
PC24. Be alert of any events and do not be negligent to any safety		0	0	0
procedures to be followed	-	<u> </u>		
PC25. Avoid accidents while using hazardous chemicals, machines,		4	2	2
sharp tools and equipment	-	-	_	
PC26.Use safety materials such as protective gear, goggles, caps,		4	2	2
shoes, etc. (as applicable with workplace)	-			
PC27. Handle heavy and hazardous materials with care and using appropriate tools and handling equipment such as trolleys, ladders		0	0	0
Total		100	60	40
		100	00	40
PC1.Importance of being aware to identify profitable business		,	,	0
opportunity (Opportunity can be in the form of new material in use, new process, new technology, new market etc)		2	2	0
PC2.Maintain the confidentiality till the completion of working on the				
idea		3	2	1
PC3.Discuss the opportunity (with trusted ones) to evaluate its				
feasibility		5	3	2
PC4.Arrange/organize related documents/information		4	3	1
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	PC5.Monitor the development at competitors' end		2	2	0
	PC6.Sustain existing business and make continual improvements	100	4	2	2
	PC7.Evaluate possibilities of process simplification, combining process steps (wherever applicable), reducing manpower dependency		4	2	2
	PC8.Acquire new information for optimal allocation of resources before others to gain profit		4	2	2
	PC9.Understanding the requirement of different factors of production: land, labour and capital		5	3	2
RSC/N5013 Develop	PC10. Acquire and deploy necessary resources for exploitation of identified business opportunity		5	3	2
Entrepreneurship	PC11.Develop a business plan		5	3	2
Skills	PC12.Acquire financial and material resources		5	3	2
	PC13.Organize to hire experienced and efficient human resource		4	2	2
	PC14.Arrange for best factory set up		4	2	2
	PC15.Raise capital from different sources keeping the interest cost at minimum		4	2	2
	PC16.Arrange for purchase, effective utilization and management of the resources		4	2	2
	PC17.Assume risk and deal with uncertainty		2	0	2
	PC18.Take initiative to start something new (process, product etc.)		2	0	2
	PC19.Convert new idea into successful innovation		2	0	2
	PC20.Replace in whole or in part inferior offerings creating new products/business model		4	2	2
	PC21.Develop new combinations of existing inputs		4	2	2
	PC22.To be more competitive work towards cost reduction through efficiency, improvement in quality, bring in new product/features of product		5	3	2
	PC23.Acquire semi or fully automatic units for improved productivity		5	3	2
	PC24.Collection and recording of all information		3	3	0
	PC25.Compilation, analysis and documentation		3	3	0
	PC26.Correspondence with venders, clients, govt. agencies and public		3	3	0
	PC27.Document notifications/letters from Government agencies and management		3	3	0
	Total		100	60	40