



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- Quality control Inspector-Extrusion

SECTOR: RUBBER INDUSTRY

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

OCCUPATION: Extrusion

REFERENCE ID: RSC/ Q 0624

ALIGNED TO: NCO-2004/NIL

Brief Job Description: The quality control inspector- extrusion in this role is responsible for controlling the quality of the product during the extrusion process.

Personal Attributes: This job requires the individual to have an eye for detail. He must have a positive attitude and be open to learning. The individual must be result oriented.







Job Details

Qualifications Pack Code	RSC/ Q 0624		
Job Role	Quality control inspector- Extrusion		
Credits(NSQF)	TBD	Version number	1.0
Sector	Rubber Industry	Drafted on	04/06/13
Sub-sector	Tyre and non-tyre	Last reviewed on	29/12/15
Occupation	Extrusion	Next review date	29/12/17
NSQC Clearnace on	20/07/2015		

Job Role	Quality control Inspector - Extrusion		
Role Description	The quality control inspector - extrusion in this role is responsible for controlling the quality of the product during the extrusion process.		
NSQF level	5		
Minimum Educational			
Qualifications*	Class XII		
Maximum Educational	Masters in Science		
Qualifications*			
Training (Suggested but not mandatory)	-		
Minimum Job Entry Age	18 years		
Experience	Worked as Supervisor in the operations for 2-3 years		
Applicable National Occupational Standards (NOS)	Compulsory: 1. RSC/ N2401 (Control quality of the product produced by extrusion process.) 2. RSC/ N5001 (To Carry Out Housekeeping) 3. RSC/ N5002 (To Carry Out Reporting and Documentation) 4. RSC/ N5003 (To Carry Out Quality Control) 5. RSC/ N5004 (To Carry Out Problem Identification and Escalation) Optional: 6.		
Performance Criteria	As described in the relevant OS units		





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

Definitions







Control Quality Of The Product Produced By Extrusion Process

National Occupational Standard



Overview

This unit is about controlling quality of the product produced by extrusion process









Unit Code	RSC / N 2401
Unit Title	Control quality of the product produced by extrusion process
(Task)	
Description	This unit is about controlling quality of the product produced by extrusion process
Scope	This unit/task covers the following:
	Ensuring housekeeping and safety in the extrusion area
	Checks to be done before extrusion operation
	Checks to be done during the extrusion operation To undertake activities after completion of extrusion process
	To undertake activities after completion of extrusion process
Performance Criter	ia (PC) w.r.t. the Scope
Element	Performance Criteria
	To be competent, the user/individual on the job must be able to:
	PC1. Check cleanliness of conveyors and the Extruder
Prior to Extrusion	PC2. Check whether correct Die is fitted on the Extruder Head
Operation	PC3. Check the extrusion parameters e.g speed / screw rpm, temperature, conveyor
	speed etc. set for extrusion.
	PC4. Keep tools like calipers & gauges duly calibrated/validated/verified and
	accessories like calculator ready before starting the check as per SOP
During Extrusion	PC5. Check extrusion speed / screw rpm, conveyor speed etc. set for extrusion.
Operation	PC6. Check cooling water flow rate (extrusion temperature control)
	PC7. Check extrudate temperature
	PC8. Check the skiving operation and skiving
	PC9. Check dimensions of the extrudate
Post Extrusion	PC10. Check shrinkage
Operation	PC11. Check batch identification for traceability
	PC12. Check contamination aspect.
	PC13. Adhere to and check adherence to all safety norms (like wearing protective
	gloves, safety goggles, shoes etc)
Others	PC14. Comply with health, safety, environment guidelines, regulations etc in
	accordance with international/national standards or organizational SOP
Knowledge and Une	derstanding (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. Implications of poorly prepared equipment, power failure etc
(Knowledge of	KA2. Cleanliness and safety requirements for commencing an extrusion operation









the company /	KA3. Material disposal procedure, importance of appropriate disposal of material
organization	and implications of not following the material disposal procedure
and its	KA4. Quality and damage checks to be done and importance of the same
processes)	KA5. Quality control procedures followed by the company
	KA6. Importance of quality control procedures
	KA7. Implications of not adhering to quality control procedures
	KA8. Importance of identifying non-conforming products and storage of the same
	KA9. Risk and impact of not following defined procedures/work instructions
	KA10. Escalation matrix for reporting identified issues
	KA11. Types of documentation in organization and importance of the same
	KA12. Records to be maintained and implications of non-maintenance of the same
	KA13. Company manual and from where to attain it
	KA13. Company manual and norm where to attain it KA14. Importance of housekeeping & good shop floor practices (e.g. 3S/5S)
	KA15. Health, Safety and Environment guidelines, legislation and regulations as applicable
	KA16. Personal protection(Which protective equipment to be used and how)
	KA17.Impact of poor practices on health, safety and environment
	KA18. Potential hazards and actions to minimize the same
	KA19. Escalation matrix and escalation procedure for reporting hazards
	KA19. Escalation matrix and escalation procedure for reporting nazards
	KA21. Impact of various practices on cost, quality, productivity, delivery and safety
	KA22. Handover/ Takeover the equipment/ work area as per organisational SOP
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. Different types of Extruders and their operation as well as control panel.
	KB2. Measurement using gauges and weighing systems
	KB3. Importance of process parameters (temperature, pressure etc) and impact
	KB4. Troubleshooting and adjusting the process parameters
	KB5. Common defects in extruded products, their possible causes and remedies.
	KB6. Specifications and performance requirements of the product
	KB7. Response to emergencies e.g. Power failures, fire and system failures and
	manual intervention to avoid disaster
	KB8. The usage of different types of fire extinghishers
Skills (S)	
	Writing Skills
A. Core Skills/	The user/ individual on the job needs to know and understand how to:
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
	I mathematical principles, such as nullibers and space, and techniques such as









	estimation and approximation, for practical purposes
Rea	ading Skills
TI	he user/individual on the job needs to know and understand how to:
SA	A5. Read and understand manuals, health and safety instructions, memos, reports,
	job cards etc
	A6. Read images, graphs, diagrams
SA	A7. Understand the various coding systems as per company norms
Ora	al Communication (Listening and Speaking skills)
TI	he user/individual on the job needs to know and understand how to:
SA	A8. Express statements, opinions or information clearly so that others can hear and understand
SA	A9. Respond appropriately to any queries
SA	A10. Communicate with supervisor
SA	A11. Communicate with upstream and downstream teams
SA	A12. Work in a team and other behavioral skills required to support the small group activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
SA	A13. Practice honesty with respect to company property and time
SA	A14. Communicate with people in a form and manner and using language that is open and respectful
SA	A15. Resolve any difficulties in relationships with colleagues , or get help from an appropriate person, in a way that preserves goodwill and trust
SA	A16. Take responsibility for completing one's own work assignment
SA	A17. Take initiative to enhance/learn skills in ones's area of work
SA	A18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning.
SA	A19. Is open to new ways of doing things
SA	A20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them.
SA	A21. Avoid absenteeism
SA	A22. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations
S	A23. Work in disciplined factory environment
	A24. Be punctual
De	cision Making









B.Professional	The user/individual on the job needs to know and understand how to:
Skills	SB1. Take appropriate decisions regarding processing steps in view of changing
	quality and availability of raw materials and finished goods.
	SB2. Handle rubber compound
	SB3. Handle chemicals
	SB4. Handle rubber products
	SB5. Perform computer operations
	SB6. Carry out operation on complex sample components
	SB7. Identify defective sample/sampling equipment and take appropriate
	action
	SB8. Carry out tests involving multi stage testing operations
	SB9. Carry out tests involving multiple parameters/control factors
	Plan and Organize
	The user/individual on the job needs to know and understand how to:
	SB10. seek clarification on problems from others
	SB11. apply problem-solving approaches in different situations
	SB12. refer anomalies to the line manager
	Customer Centricity
	NA
	Problem Solving
	The user/individual on the job needs to know and understand how to:
	SB 13. Interpret quality for sheet
	SB 14 . Suggest improvements(if any) in process/product/materials based on results
	and experience
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB15. Proper collection of waste material
	SB16. Identify defects in the material and communicate it at the earliest and suggest
	improvements(if any) in process/material based on experience
	Critical Thinking
	The user/individual on the job needs to know and understand how to:
	SB17. Handle equipment/rubber sheet SB6. seek clarification on problems from
	others
	SB18. apply problem-solving approaches in different situations
	SB19. refer anomalies to the line manager
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Control Quality Of The Product Produced By Extrusion Process

NOS Version Control

NOS Code	RSC / N 2401		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	04/06/13
Industry Sub-sector	Tyre and Non-Tyre	Last reviewed on	29/12/15
Occupation	Extrusion	Next review date	29/12/17



Back to QP





National Occupational Standard



Overview

This unit is about carrying out housekeeping activities



NOS

National Occupational Standards To Carry Out Housekeeping





RSC / N 5001	To Carry Out Housekeeping
Unit Code	RSC / N 5001
Unit Title (Task)	To carry out housekeeping
Description	This unit is about carrying out housekeeping activities
Scope	This unit/task covers the following:
	Preparing for housekeeping activities
	Carry out housekeeping activities
	Post housekeeping activities
Performance Criteria (I	PC) w.r.t. the Scope
Element	Performance Criteria
	To be competent, the user/individual on the job must be able to:
Pre housekeeping activities	 PC1. Inspect the area while taking into account various surfaces PC2. Identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain PC3. Ensure that the cleaning equipment is in proper working condition PC4. Select the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person PC5. Plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces PC6. Inform the affected people about the cleaning activity PC7. Display the appropriate signage for the work being conducted PC8. Ensure that there is adequate ventilation for the work being carried out PC9. Wear the personal protective equipment required for the cleaning method and materials being used
Operations	 PC10. Use the correct cleaning method for the work area, type of soiling and surface PC11. Carry out cleaning activity without disturbing others PC12. Deal with accidental damage, if any, caused while carrying out the work PC13. Report to the appropriate person any difficulties in carrying out your work PC14. Identify and report to the appropriate person any additional cleaning required that is outside one's responsibility or skill
Post housekeeping activities	PC15. Ensure that there is no oily substance on the floor to avoid slippage PC16. Ensure that no scrap material is lying around PC17. Maintain and store housekeeping equipment and supplies PC18. Follow workplace procedures to deal with any accidental damage caused

INTER BULL DEVELOPMENT COUNCE RSC / N 5001	NOS National Occupational Standards To Carry Out Housekeeping	सत्यमेव जयते GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP	N·S·D·C National Skill Develop Corporation Transforming the skill land
	during the cleaning process PC19. Ensure that, on completion of the wor meets requirements PC20. Return the equipment, materials and p were used to the right places making su stored PC21. Dispose the waste garnered from the a PC22. Dispose of used and un-used solutions instructions, and clean the equipment t	personal protective equi ure they are clean, safe a activity in an appropriate according to manufactu	pment that and securely e manner
General	PC23. Maintain schedules and records for hop PC24. Replenish any necessary supplies or co		
Knowledge and Understa	nding (K)		
B. Technical Knowledge	 The user/individual on the job needs to know KB1. The levels of hygiene required by work maintain them during your work KB2. How to inspect a work area to decide w KB3. Methods and materials that used for cl KB4. The types of cleansing agents that are n KB5. The correct method for cleaning equipmyour work KB6. The importance of personal protective equipment, tools, materials and chemic KB7. Appropriate personal protective equipment, tools, materials and chemic KB8. The correct sequence for cleaning the w KB9. The time taken by the treatment to wo KB10. The importance of following manufacture KB11. The most appropriate place to carry our done before applying treatments KB13. Process of cleaning the surfaces without this KB13. Process of cleaning the surfaces without this KB15. Procedures for reporting any unidentified of the surface of the surface surface of the surface of the surface surfac	place and why it is impo what cleaning it needs eaning variety of surface not to be mixed togethe ment and/or machinery equipment nent for the work area, of cals used work area rk urer's instructions on cle ut test cleans and why the s evenly and the effect of ut causing injury or dam ice and equipment on co	es r used during cleaning caning agents his should be of not doing



NOS

National Occupational Standards To Carry Out Housekeeping



N·S·D·C National Skill Development Corporation

RSC / N 5001	To Carry Out Housekeeping	iscupe
A. Core Skills/	Writing Skills	
Generic Skills	The user/ individual on the job needs to know and understand how to:	
	SA25. Construct simple sentences and express ideas clearly through written communicatio	n
	SA26. Fill up appropriate technical forms, process charts, activity logs in required format of t	
	company	
	SA27. Write simple letters, mails, etc	
	SA28. Perform functional mathematical operations, including apply basic mathematical	
	principles, such as numbers and space, and techniques such as estimation and	
	approximation, for practical purposes	
	Reading Skills	
	The user/individual on the job needs to know and understand how to:	
	SA29. Read and understand manuals, health and safety instructions, memos, reports, job ca	rds
	etc	
	SA30. Read images, graphs, diagrams	
	SA31. Understand the various coding systems as per company norms	
	Oral Communication (Listening and Speaking skills)	
	The user/individual on the job needs to know and understand how to:	
	SA32. Express statements, opinions or information clearly so that others can hear	
	and understand	
	SA33. Respond appropriately to any queries	
	SA34. Communicate with supervisor	
	SA35. Communicate with upstream and downstream teams	
	SA36. Work in a team and other behavioral skills required to support the small group activit	ies
	(Quality Circle, Cross Functional Team, Suggestion Scheme)	
	SA37. Practice honesty with respect to company property and time	
	SA38. Communicate with people in a form and manner and using language that is open and respectful	
	SA39. Resolve any difficulties in relationships with colleagues , or get help from an appropri	ate
	person, in a way that preserves goodwill and trust	
	SA40. Take responsibility for completing one's own work assignment	
	SA41. Take initiative to enhance/learn skills in ones's area of work	
	SA42. The capacity to learn from experience in a range of settings and scenarios and the	
	capacity to reflect on and analyse one's learning.	
	SA43. Is open to new ways of doing things	
	SA44. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them.	
	SA45. Avoid absenteeism	
	SA46. Act objectively , rather than impulsively or emotionally when faced with	
	difficult/stressful or emotional situations	
	SA47. Work in disciplined factory environment	



NOS National Occupational Standards





SA48. Be punctual 3.Professional Skills Decision Making The user/individual on the job needs to know and understand how to: S91. Take appropriate decisions regarding processing steps in view of changing quality and availability of raw materials and finished goods. S92. Handle rubber compound S93. Handle chemicals S94. Handle rubber products S95. Perform computer operations S96. Carry out tests involving multi stage testing operations S97. Identify defective sample/sampling equipment and take appropriate action S98. Carry out tests involving multiple parameters/control factors Plan and Organize The user/individual on the job needs to know and understand how to: S810. seek clarification on problems from others S911. apply problem-solving approaches in different situations S92. Zerry cut tests involving multiple parameters/control factors VB10. seek clarification on problems from others S911. apply problem-solving approaches in different situations S92. Zerry caute test involving multiple parameters/control factors VB10. seek clarification on problems from others S911. apply problem-solving approaches in different situations S92. Terfer anomalies to the line manager Customer Centricity <	RSC / N 5001	To Carry Out Housekeeping			
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		Critical Thinking			
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National Occupational Standards To Carry Out Housekeeping

-		
	SB18. apply problem-solving approaches in different situations	
	SB19. refer anomalies to the line manager	









NOS Version Control

NOS Code	RSC / N 5001		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	04/06/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Extrusion	Next review date	29/12/17



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National Occupational Standard



Overview

This unit is about reporting and documentation









RSC / N 5002

RSC / N 5002			
Unit Code	RSC / N 5002		
Unit Title (Task)	To carry out reporting and documentation		
Description	This unit is about carrying out reporting and documentation		
Scope	 This unit/task covers the following: Reporting of data/problem/incidents etc Documentation Information Security 		
Performance Criteria (I	PC) w.r.t. the Scope		
Element	Performance Criteria		
Reporting	To be competent, the user/individual on the job must be able to: PC1. Report data/problems/incidents as applicable in a timely manner PC2. Report to the appropriate authority as laid down by the company PC3. Follow reporting procedures as prescribed by the company		
Recording and Documentation	 PC4. Identify documentation to be completed relating to one's role PC5. Record details accurately an appropriate format PC6. Complete all documentation within stipulated time according to company procedure PC7. Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly PC8. Make sure documents are available to all appropriate authorities to inspect 		
Information Security	 PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures PC10. Inform the appropriate authority of requests for information received 		
Knowledge and Unders	standing (K)		
B. Technical Knowledge	 The user/individual on the job needs to know and understand: KB1. Different methods of recording information KB2. Various documents that need to be maintained KB3. Company procedure for filling/maintaining up the documents KB4. Procedures for reporting to the appropriate authority KB5. Procedures for recording damage, breakages etc KB6. Reporting incidents where standard operating procedures are not followed KB7. The importance of complete and accurate documentation KB8. How to maintain complete documentation accurately and within agreed timescales 		









RSC / N 5002	
	KB9. The importance of ensuring that the documents are correct
	KB10. The actions to be taken if the documents are not correct
	KB11. The importance of maintaining the security and confidentiality of recorded
	information
	KB12. Procedures to maintain confidentiality of information
	KB13. The appropriate method for responding to requests for information
	KB14. The reporting procedures to followed before disclosing information to any
	outside party
Skills (S)	
	Writing Skills
	The user/ individual on the job needs to know and understand how to:
	SA1. Express ideas clearly through written communication
	SA2. Fill up documentation applicable to ones role
	SA3. Write simple letters, mails, etc
	SAS. Write simple letters, mais, etc
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA4. Read fluently (in English/ vernacular) with few pauses and a constant speed
	SA5. Read and understand manuals, health and safety instructions, memos, reports
	etc
	SA6. Ability to read from different material sources – books, screens in machines,
	web, etc
	SA7. Understand the various color codes, as per company nomenclature
	SA7. Onderstand the various color codes, as per company nomenciature
A. Core Skills/	Oral Communication (Listening and Speaking skills)
Generic Skills	The user/individual on the job needs to know and understand how to:
	SA8. Express statements, opinions or information clearly so that others can hear
	and understand
	SA9. Participate in and understand the main points of simple discussions
	SA10. Respond appropriately to any queries
	SA11. Communicate with supervisor
	SA12. Practice honesty with respect to company property and time
	SA13. Communicate with people in a form and manner and using language that is
	open and respectful
	SA14. Resolve any difficulties in relationships with colleagues , or get help from an
	appropriate person, in a way that preserves goodwill and trust
	SA15. Take responsibility for completing one's own work assignment
	SA16. Take initiative to enhance/learn skills in ones's area of work
	SA17. The capacity to learn from experience in a range of settings and scenarios and
	the capacity to reflect on and analyse one's learning.
	SA18. Is open to new ways of doing things
	SA19. The capacity to envisage and articulate personal goals; to develop strategies









RUBBER SKILL DEVELOPMENT COUNCIL RSC / N 5002	National Occupational Standards GOVERNMENT OF INDIA To Carry Out Reporting And Documentation MINISTRY OF SKILL DEVELOPMENT & ENTERPRENEUSHIP Transforming the skill lands
	and take action to achieve them.
	SA20. Avoid absenteeism
	SA21. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA22. Work in disciplined factory environment
	SA23. Be punctual
B.Professional Skills	Decision Making
D.FTOTESSIONAL SKIIIS	The user/individual on the job needs to know and understand how to:
	SB1. Take appropriate decisions regarding processing steps in view of changing
	quality and availability of raw materials and finished goods.
	SB2. Handle rubber compound
	SB3. Handle chemicals
	SB4. Handle rubber products
	SB5. Perform computer operations
	SB6. Carry out operation on complex sample components
	SB7. Identify defective sample/sampling equipment and take appropriate
	action
	SB8. Carry out tests involving multi stage testing operations
	SB9. Carry out tests involving multiple parameters/control factors
	Plan and Organize
	The user/individual on the job needs to know and understand how to:
	SB10. seek clarification on problems from others
	SB11. apply problem-solving approaches in different situations
	SB12. refer anomalies to the line manager
	Customer Centricity
	NA
	Problem Solving
	The user/individual on the job needs to know and understand how to:
	SB 13. Interpret quality for sheet
	SB 14 . Suggest improvements(if any) in process/product/materials based on results and experience
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB15. Proper collection of waste material
	SB16. Identify defects in the material and communicate it at the earliest and suggest
	SBTO. Identity delects in the material and communicate it at the earliest and suggest





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National Occupational Standards To Carry Out Reporting And Documentation

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

Critical Thinking

The user/individual on the job needs to know and understand how to: SB17. Handle equipment/rubber sheet SB6. seek clarification on problems from others SB18. apply problem-solving approaches in different situations SB19. refer anomalies to the line manager





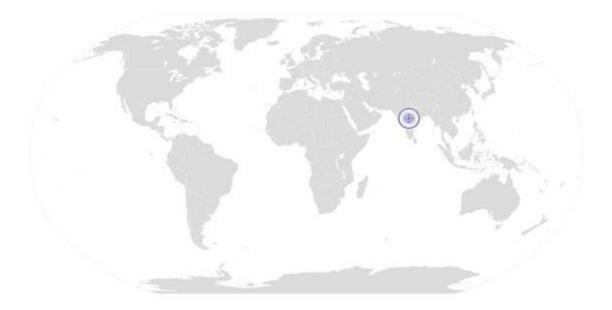






NOS Version Control

NOS Code	RSC / N 5002		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	04/06/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Extrusion	Next review date	29/12/17



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National Occupational Standard



Overview

This unit is about carrying out quality checks



NOS National Occupational Standards

To Carry Out Quality Checks





RSC / N 5003	To Carry Out Quality Checks		
Unit Code	RSC / N 5003		
Unit Title			
(Task)	To carry out quality checks		
Description	This unit is about carrying out quality control activities		
Scope	This unit/task covers the following:		
	Carrying out quality checks to identify problems		
	Take corrective actions		
	Reporting the results		
Performance Criteria	a (PC) w.r.t. the Scope		
Element	Performance Criteria		
	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		
inspection	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		
Analysis	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		
	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		
Reporting	PC12. Record of results of action taken		
Reporting	PC13. Record adjustments not covered by established procedures for future		
	reference		
	PC14. Review effectiveness of action taken		
	PC15. Follow reporting procedures where the cause of defect cannot be identified		
Knowledge and Und			
	The user/individual on the job needs to know and understand:		
B. Technical	KB1. The importance of quality control procedures		
Knowledge	KB2. Relevance and importance of activities and how they contribute to the		
	achievement of the quality objectives,		









RSC / N 5003	To Carry Out Quality Checks MINISTRY OF Skill Evelopment & ENTREPRENEURSHIP	cape
	KB3. Proper procedure for selecting the material/product and performing quality	
	checks without affecting the material	
	KB4. Availability of work instructions, as necessary,	
	KB5. Characteristics of the product/material	
	KB6. Use of suitable equipment	
	KB7. Availability and use of monitoring and measuring devices,	
	KB8. Requirements of records	
	KB9. Importance of maintaining accurate up-to-date records	
	KB10. The need to report within the stipulated time	
	KB11. Implications of inaccurate measuring and testing instruments and equipment	
	KB12. The cost of non-conformance to quality standards	
	KB13. Implications (impact on internal/external customers) of defective products,	
	materials or components	
		_
Skills (S)		
	Writing Skills	
	The user/ individual on the job needs to know and understand how to:	
	SA1. Express ideas clearly through written communication	
	SA2. Fill up quality inspection reports clearly, concisely and accurately as per	
	company procedures	
	SA3. Write simple letters, mails, etc	
	Reading Skills	
	The user/individual on the job needs to know and understand how to:	
	SA4. Read and understand manuals, health and safety instructions, memos, reports	ç
	etc	,
	SA5. Read images, graphs, diagrams and interpret them	
	SA6. Ability to read from different material sources – books, screens in machines,	
A. Core Skills/	web, etc	
Generic Skills	SA7. Understand the various color codes, as per company nomenclature	
	Oral Communication (Listening and Speaking skills)	
	The user/individual on the job needs to know and understand how to:	
	SA8. Express statements, opinions or information clearly so that others can hear	
	and understand	
	SA9. Participate in and understand the main points of simple discussions	
	SA10. Respond appropriately to any queries	
	SA11. Communicate with supervisor	
	SA12. Practice honesty with respect to company property and time	
	SA13. Communicate with people in a form and manner and using language that is	
	open and respectful	
	SA14. Resolve any difficulties in relationships with colleagues , or get help from an	
	appropriate person, in a way that preserves goodwill and trust	









RSC / N 5003	To Carry Out Quality Checks	MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP	Transforming the skill landscape	
	SA15. Take responsibility for completing one's own	work assignment		
	SA16. Take initiative to enhance/learn skills in ones	's area of work		
	SA17. The capacity to learn from experience in a rat	nge of settings and	l scenarios and	
	the capacity to reflect on and analyse one's le	earning.		
	SA18. Is open to new ways of doing things			
	SA19. The capacity to envisage and articulate perso	nal goals; to devel	op strategies	
	and take action to achieve them. SA20. Avoid absenteeism SA21. Act objectively , rather than impulsively or emotionally when faced with difficult/stressful or emotional situations			
	SA22. Work in disciplined factory environment			
	SA23. Be punctual			
	Decision Making			
B.Professional Skills	The user/individual on the job needs to know and un	derstand how to:		
	SB1. Take appropriate decisions regarding proces	ssing steps in view	of changing	
	quality and availability of raw materials and	finished goods.		
	SB2. Handle rubber compound	24		
	SB3. Handle chemicals	1		
	SB4. Handle rubber products	A		
	SB5. Perform computer operations	RIA		
	SB6. Carry out operation on complex sample comp	oonents		
	SB7. Identify defective sample/sampling equipment	nt and take approp	oriate	
	action			
	SB8. Carry out tests involving multi stage testing o	perations		
	SB9. Carry out tests involving multiple parameters	/control factors		
	Plan and Organize			
	The user/individual on the job needs to know and un	derstand how to:		
	SB10. seek clarification on problems from others			
	SB11. apply problem-solving approaches in different	situations		
	SB12. refer anomalies to the line manager			
	Customer Centricity			
	NA			
	Problem Solving			
	The user/individual on the job needs to know and un	derstand how to:		
	SB 13. Interpret quality for sheet			
	SB 14 . Suggest improvements(if any) in process/pro	duct/materials bas	ed on results	







and experience

Analytical Thinking

The user/individual on the job needs to know and understand how to: SB15. Proper collection of waste material

SB16. Identify defects in the material and communicate it at the earliest and suggest improvements (if any) in process/material based on experience

Critical Thinking

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

SB17. Handle equipment/rubber sheet SB6. seek clarification on problems from others

- SB18. apply problem-solving approaches in different situations
- SB19. refer anomalies to the line manager





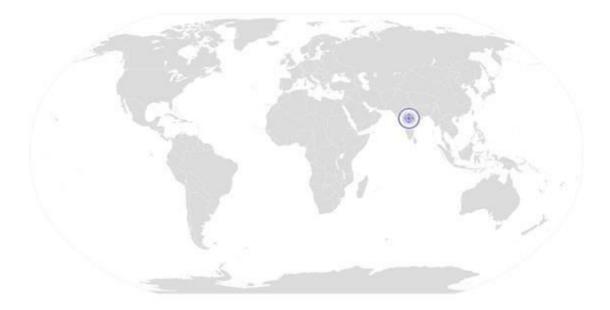
NOS National Occupational Standards To Carry Out Quality Checks





NOS Version Control

NOS Code	RSC / N 5003		
Credits(NSQF)	TBD	Version number	01.0
Industry	Rubber Manufacturing	Drafted on	04/06/13
Industry Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Extrusion	Next review date	29/12/17



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National Occupational Standard



Overview

This unit is about problem identification and escalation









National Occupational Standard

Unit Code	RSC / N 5004		
Unit Title			
(Task)	To carry out problem identification and escalation		
Description	This unit is about problem identification and escalation		
Scope	 This unit/task covers the following: Identify problems across: Raw materials Compounds Product Equipment Others Identify solutions to problems Take corrective action 		
	Escalation of unresolved identified problems		
Performance Criteria	(PC) w.r.t. the Scope		
Element	Performance Criteria		
Problem Identification	To be competent, the user/individual on the job must be able to: PC1. Identify defects/indicators of problems PC2. Identify any wrong practices that may lead to problems PC3. Identify practices that may impact the final product quality PC4. Identify if the problem has occurred before PC5. Identify other operations that might be impacted by the problem PC6. Ensure that no delays are caused as a result of failure to escalate problems		
Necessary Action	 PC7. Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required) PC8. Consider possible reasons for identification of problems PC9. Consider applicable corrections and formulate corrective action PC10. Formulate action in a timely manner PC11. Communicate problem/remedial action to appropriate parties PC12. Take corrective action in a timely manner PC13. Take corrective action for problems identified according to the company procedure PC14. Report/document problem and corrective action in an appropriate manner 		









National Occupational Standards To Carry Out Problem Identification And Escalation

	PC15. Monitor corrective action
	PC16. Evaluate implementation of corrective action taken to determine if the problem has been resolved
	PC17. Ensure that corrective action selected is viable and practical
	PC18. Ensure that correct solution is identified to an identified problem
	PC19. Take corrective action for problems identified according to the company procedures
	PC20. Ensure that no delays are caused as a result of failure to take necessary action
	rezu. Ensure that no delays are caused as a result of failure to take necessary action
	PC21. Escalate problem as per laid down escalation matrix
Problem Escalation	PC22. Escalate the problem within stipulated time
Problem Escalation	PC23. Escalate the problem in an appropriate manner
	PC24. Ensure that no delays are caused as a result of failure to escalate problems
Knowledge and Unders	standing (K)
	The user/individual on the job needs to know and understand:
B. Technical 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 KB9. The correct method for carrying out corrective actions outlined for each problem KB10. The impact of not carrying out the corrective actions KB11. The documentation procedure for recording such problems, as per company norms KB12. The escalation matrix for reporting problems KB13. Escalation matrix for reporting unresolved problems KB14. The time frame within which in which each problem needs to be escalated KB15. Manner in which each problem needs to be escalated
Skills (S)	
	Writing Skills
A. Core Skills/ Generic Skills	Writing Skills
Generic Skills	The user/ individual on the job needs to know and understand how to:
	SA23. Construct simple sentences and express ideas clearly through written
	communication
	SA24. Fill up appropriate technical forms, process charts, activity logs in required
	format of the company







National Occupational Standards To Carry Out Problem Identification And Escalation

	CARE Write simple letters mails at
	SA25. Write simple letters, mails, etc
	SA26. Perform functional mathematical operations, including apply basic
	mathematical principles, such as numbers and space, and techniques such as
	estimation and approximation, for practical purposes
	Reading Skills
-	The user/individual on the job needs to know and understand how to:
	SA27. Read and understand manuals, health and safety instructions, memos, reports,
	job cards etc
	SA28. Read images, graphs, diagrams
	SA29. Understand the various coding systems as per company norms
-	Oral Communication (Listening and Speaking skills)
-	The user/individual on the job needs to know and understand how to:
	SA30. Express statements, opinions or information clearly so that others can hear
	and understand
	SA31. Respond appropriately to any queries
	SA32. Communicate with supervisor
	SA33. Communicate with upstream and downstream teams
	SA34. Work in a team and other behavioral skills required to support the small group
	activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
	SA35. Practice honesty with respect to company property and time
	SA36. Communicate with people in a form and manner and using language that is open and respectful
	SA37. Resolve any difficulties in relationships with colleagues , or get help from an
	appropriate person, in a way that preserves goodwill and trust
	SA38. Take responsibility for completing one's own work assignment
	SA39. Take initiative to enhance/learn skills in ones's area of work
	SA40. The capacity to learn from experience in a range of settings and scenarios and
	the capacity to reflect on and analyse one's learning.
	SA41. Is open to new ways of doing things
	SA42. The capacity to envisage and articulate personal goals; to develop strategies
	and take action to achieve them.
	SA43. Avoid absenteeism
	SA43. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA45. Work in disciplined factory environment
	SA46. Be punctual
	Decision Making









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B.Professional Skills	The user/individual on the job needs to know and understand how to:				
	SB1. Take appropriate decisions regarding processing steps in view of changing				
	quality and availability of raw materials and finished goods.				
	SB2. Handle rubber compound				
	SB3. Handle chemicals				
	SB4. Handle rubber products				
	SB5. Perform computer operations				
	SB6. Carry out operation on complex sample components				
	SB7. Identify defective sample/sampling equipment and take appropriate action				
	SB8. Carry out tests involving multi stage testing operations				
	SB9. Carry out tests involving multiple parameters/control factors				
	Plan and Organize				
	The user/individual on the job needs to know and understand how to:				
	SB10. seek clarification on problems from others				
	SB11. apply problem-solving approaches in different situations				
	SB12. refer anomalies to the line manager				
	Customer Centricity				
	NA				
	Problem Solving				
	The user/individual on the job needs to know and understand how to:				
	SB 13. Interpret quality for sheet				
	SB 14 . Suggest improvements(if any) in process/product/materials based on results				
	and experience				
	Analytical Thinking				
	The user/individual on the job needs to know and understand how to:				
	SB15. Proper collection of waste material				
	SB16. Identify defects in the material and communicate it at the earliest and suggest				
	improvements(if any) in process/material based on experience				
	Critical Thinking				
	The user/individual on the job needs to know and understand how to:				
	SB17. Handle equipment/rubber sheet SB6. seek clarification on problems from others				
	SB18. apply problem-solving approaches in different situations				
	SB19. refer anomalies to the line manager				







NOS Version Control

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



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CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role: Quality control Inspector-Extrusion Qualification Pack Code: RSC/ Q 0624 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 SSC3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)

4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria

5. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS 6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

Assessment Strategy			M	arks Alloo	ation
NOS	Elements	Performance Criteria	Total	Theory	Practical
		PC1. Check cleanliness of conveyors and the Extruder	4	4	0
	Prior to Extrusion	PC2. Check whether correct Die is fitted on the Extruder Head	10	4	6
	Operation	PC3. Check the extrusion parameters e.g speed / screw rpm, temperature, conveyor speed etc. set for extrusion.	10	4	6
1. RSC/N2601 Control Quality Of The Product Produced By Extrusion Process		PC4. Keep tools like calipers & gauges duly calibrated/validated/verified and accessories like calculator ready before starting the check as per SOP	6	2	4
	During Extrusion Operation	PC5. Check extrusion speed / screw rpm, conveyor speed etc. set for extrusion.	10	2	8
		PC6. Check cooling water flow rate (extrusion temperature control)	10	2	8
		PC7. Check extrudate temperature	8	2	6
		PC8. Check the skiving operation and skiving	10	4	6

		PC9. Check dimensions of the extrudate	12	6	6
	Dest	PC10. Check shrinkage	6	2	4
	Post ExtrusionOperation	PC11. Check batch identification for traceability	4	4	0
		PC12. Check contamination aspect.	2	0	2
		PC13. Adhere to and check adherence to all safety norms (like wearing protective gloves, safety goggles, shoes etc)	6	2	4
	Others	PC14. Comply with health, safety, environment guidelines, regulations etc in accordance with international/national standards or organizational SOP	2	2	0
			100	40	60
		PC1. Inspect the area while taking into account various surfaces	3	3	0
	Pre housekeeping activities	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
2. RSC/N5001 To Carry Out Housekeeping		PC4. Select the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person	3	3	0
		PC5. Plan the sequence for cleaning the area to avoid re- soiling clean areas and surfaces	3	3	0
		PC6. Inform the affected people about the cleaning activity	2	2	0
		PC7. Display the appropriate signage for the work being conducted	3	3	0
		PC8. Ensure that there is adequate ventilation for the work being carried out	3	3	0
		PC9. Wear the personal protective equipment required	3	3	0

	for the cleaning method and			
	materials being used			
	PC10. Use the correct cleaning			
	method for the work area, type	3	3	0
	of soiling and surface			
	PC11. Carry out cleaning activity	2	2	
	without disturbing others	3	3	0
	PC12. Deal with accidental			
	damage, if any, caused while	3	3	0
	carrying out the work	0		Ū
Operations	PC13. Report to the appropriate			
	person any difficulties in carrying	3	3	0
	out your work	5	5	0
	PC14. Identify and report to the			
	appropriate person any	2	2	0
	additional cleaning required that	3	3	0
	is outside one's responsibility or			
	skill			
	PC15. Ensure that there is no oily	6	-	_
	substance on the floor to avoid	9	3	6
	slippage			
	PC16. Ensure that no scrap	9	3	6
	material is lying around	2		5
	PC17. Maintain and store			
	housekeeping equipment and	3	3	0
	supplies			
	PC18. Follow workplace			
	procedures to deal with any	3	3	0
	accidental damage caused	J	5	U
	during the cleaning process			
	PC19. Ensure that, on			
Post housekeeping	completion of the work, the area	o	2	c
activities	is left clean and dry and meets	8	2	6
activities	requirements			
	PC20. Return the equipment,			
	materials and personal			
	protective equipment that were	2	2	~
	used to the right places making	3	3	0
	sure they are clean, safe and			
	securely stored			
	PC21. Dispose the waste			1
	garnered from the activity in an	9	3	6
	appropriate manner	2	5	U
	PC22. Dispose of used and un-			
	used solutions according to			
	manufacturer's instructions, and	9	3	6
	-			
	clean the equipment thoroughly			

	General	PC23. Maintain schedules and records for housekeeping duty	3	3	0
	General	PC24. Replenish any necessary supplies or consumables	3	3	0
			100	70	30
		PC1. Report data/problems/incidents as applicable in a timely manner	12	8	4
	Reporting	PC2. Report to the appropriate authority as laid down by the company	12	8	4
		PC3. Follow reporting procedures as prescribed by the company	12	8	4
		PC4. Identify documentation to be completed relating to one's role	10	6	4
		PC5. Record details accurately an appropriate format	16	6	10
3. RSC/N5002 To Carry Out Reporting And	Recording and Documentation	PC6. Complete all documentation within stipulated time according to company procedure	14	4	10
Documentation		PC7. Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly	6	4	2
		PC8. Make sure documents are available to all appropriate authorities to inspect	6	4	2
	Information	PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures	6	6	0
	Security	PC10. Inform the appropriate authority of requests for information received	6	6	0
			100	60	40
4. RSC/N5003 To	Inspection	PC1. Ensure that total range of checks are regularly and consistently performed	24	10	14
Carry Out Quality Checks	inspection	PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as required	24	10	14
	Analysis	PC3. Identify non-conformities to quality assurance standards	6	4	2

		PC4. Identify potential causes of non-conformities to quality assurance standards	5	3	2
		PC5. Identify impact on final product due to non- conformance to company standards	5	3	2
		PC6. Evaluating the need for action to ensure that problems do not recur	6	4	2
		PC7. Suggest corrective action to address problem	5	3	2
		PC8. Review effectiveness of corrective action	5	3	2
		PC9. Interpret the results of the quality check correctly	4	4	0
		PC10. Take up results of the findings with QC in charge/appropriate authority.	3	3	0
		PC11. Take up the results of the findings within stipulated time	3	3	0
	Reporting	PC12. Record of results of action taken	3	3	0
		PC13. Record adjustments not covered by established procedures for future reference	3	3	0
		PC14. Review effectiveness of action taken	2	2	0
		PC15. Follow reporting procedures where the cause of defect cannot be identified	2	2	0
			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
5. RSC/N5004 To Carry Out Problem Identification And Escalation	Ducklass	PC3. Identify practices that may impact the final product quality	6	3	3
	Problem Identification	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
		PC12. Take corrective action in a timely manner	2	2	0
	Necessary Action	PC13. Take corrective action for problems identified according to the company procedures	2	2	0
		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
F	Problem Escalation	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
	100	70	30