





QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR RUBBER INDUSTRY

What are Occupational Standards(OS)?

- Solution OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- 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 - Statistical process control

SECTOR: RUBBER INDUSTRY

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

OCCUPATION: Quality Control

REFERENCE ID: RSC/ Q 0416

ALIGNED TO: NCO-2004/NIL

Brief Job Description: The individual is required to carry out Statistical process control by collecting different production related data and use appropriate technique to carry out statistical analysis.

Personal Attributes: The individual is required to have good mathematical and analytical skills. He must be hard working and be open to continuous learning.



RSDC RUBBER SKILL DEVELOPMENT COUNCIL





Qualifications Pack Code	RSC/ Q 0416		
Job Role	Quality Control I	nspector-Statistical pr	ocess control
Credits(NSQF)	TBD	Version number	1.0
Sector	Rubber Manufacturing	Drafted on	20/03/13
Sub-sector	Tyre and Non- tyre	Last reviewed on	29/12/15
Occupation	Quality control	Next review date	29/12/17
NSQC Clearnace on	20/07/2015		

Job Role	Quality Control Inspector-Statistical process control
Role Description	The individual is required to carry out Statistical process control by collecting different production related data and use appropriate technique to carry out statistical analysis.
NSQF level Minimum Educational Qualifications* Maximum Educational Qualifications*	6 Graduate in Science Masters in Science
Training (Suggested but not mandatory)	-
Minimum Job Entry Age Experience	18 years Worked in the operation as a supervisor for 2-3 years
Applicable National Occupational Standards (NOS)	Compulsory: 1. RSC/ N1601 (To carry out statistical analysis of data) 2. RSC/ N5001 (To carry out housekeeping) 3. RSC/ N5002 (To carry out reporting and documentation) 4. RSC/ N5003 (To carry out quality checks) 5. RSC/ N5004 (To carry out problem identification and escalation) Optional: 6. NA
Performance Criteria	As described in the relevant OS units







सारमाच जवते GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT Qualifications Pack For Quality Control Inspector -Statistical Process Control

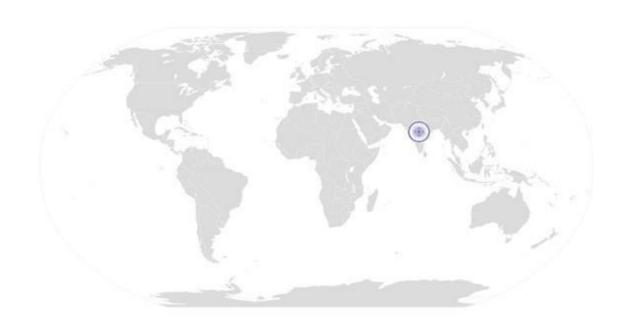
Keywords /Terms	Description
Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the
Cub costor	economy whose components share similar characteristics and interests. Sub-sector is derived from a further breakdown based on the characteristics
Sub-sector	and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/related set of functions
Cocapation	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 and
Skills	working in today's world. These skills are typically needed in any work
	environment. In the context of the OS , these include communication related
	skills that are applicable to most job roles.







National Occupational Standard



Overview

This unit is about carrying out statistical process control



National Occupational Standards





RSC / N 1601	To Carry Out Statistical Analysis Of Data
Unit Code	RSC / N 1601
Unit Title (Task)	To Carry out statistical analysis of data
Description	This unit is about carrying out statistical process control (SPC)
Scope	This unit/task covers the following:
	Collect data from different sources
	Analysis of data using statistical tools/ techniques
	Interpretation of results and provide feedback
	Documentation and record keeping
Performance Criteria (PC) w.r.t. the Scope
Element	Performance Criteria
	To be competent, the user/individual on the job must be able to
Data Collection	PC1. Prepare/collect different production/product related data for analysis PC2. Check the validity of the data collected.
Analysis	 PC3. Keep tools like calipers, gauges duly calibrated/validated/verified and accessories like calculator, computer ready before starting the analysis as per SOP. PC4. Follow appropriate statistical procedures while conducting analysis PC5. Record the data analysis PC6. Interpret results PC7. Take up the findings with QC in charge/appropriate authority and help in design of experiments for quality improvement.
Health & Safety	PC8. Ensure Housekeeping and safety in the analysis area PC9. Comply with health, safety, environment guidelines, regulations etc in accordance with international/national standards or organizational SOP
Knowledge and Under	standing (K)
	The user/individual on the job needs to know and understand:
	KA1. Different types of batches that are run in plant
A. Organizational	KA2. Implications of poorly prepared equipment
Context	KA3. Material disposal procedure, importance of appropriate disposal of material
(Knowledge of the	and implications of not following the material disposal procedure
company /	KA4. Quality and damage checks to be done and importance of the same
organization and	KAS. Importance of identifying non-conforming products and storage of the same
its processes)	KA6. Risk and impact of not following defined procedures/work instructions
	KA7. Escalation matrix for reporting identified issues
	KA8. Types of documentation in organization and importance of the same KA9. Records to be maintained and implications of non-maintenance of the same
	KA10. Company manual and from where to attain it
	10.110. Company mandal and norm where to attain it









RSC / N 1601 To Carry Out Statistical Analysis Of Data

RSC / N 1601	To Carry Out Statistical Analysis Of Data
RSC / N 1601	KA11. Importance of housekeeping & good shop floor practices (e.g. 3S/5S) KA12. Health, Safety and Environment guidelines, legislation 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 the same KA16.Escalation matrix and escalation procedure for reporting hazards KA17. The usage of different fire extinguisher KA18. Impact of various practices on cost, quality, productivity, delivery and safety KA19. Impact of various practices on cost, quality, productivity, delivery and safety KA20. Handover/ Takeover the equipment/ work area as per company's SOP The user/individual on the job needs to know and understand: KB1. Understanding of Statistical Process Control (SPC) procedure and its implication.
B. Technical Knowledge	 KB2. Understanding the role of SPC in the process & their importance in the product quality/ consistency KB3. The purposes of measurement and the specific use to which the results are to be put KB4. Understanding of type of measurements/checks for various products/ processes and implications of the same KB5. Procedures for storing samples KB6. The methods that can be used for controlling test variables KB7. The types of impact assessment system/technique available, and their application. KB8. Methods and techniques involved in evaluating information like control charts (UCL, LCL, Targeted value) process capability (Cp, Cpk), standard deviation, design of experiments KB9. Units of measurement KB10. Computer/application software processing KB11. Response to emergencies e.g. Power failures, fire and system failures and manual intervention to avoid disaster
Skills (S)	
	Writing Skills
A. Core Skills/ Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. Record and communicate details of work done to appropriate people using written/typed report or computer based record/electronic mail SA2. Maintain proper records as per given format
	Reading Skills









Plan and Organize

RSC / N 1601	To Carry Out Statistical Analysis Of Data
	The user/individual on the job needs to know and understand how to:
	SA1. Read and understand manuals, health and safety instructions, memos, reports,
	job cards etc
	SA2. Read images, graphs, diagrams
	SA3. 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:
	SA4. Communication with upstream and downstream teams
	SA5. Communicate with job owners like sample originating section, supplier etc.
	SA6. Work in a team and other behavioral skills required to support the small group
	activities (eg. quality circle, suggestion scheme, cross functional teams)
	SA7. Disclose information only to those who have the right and need to know it.
	SA8. Communicate confidential and sensitive information discretely to authorized person
	SA9. Practice honesty with respect to company property and time
	SA10. Communicate with people in a form and manner and using language that is open and respectful
	SA11. Resolve any difficulties in relationships with colleagues , or get help from an
	appropriate person, in a way that preserves goodwill and trust
	SA12. Take responsibility for completing one's own work assignment
	SA13. Take initiative to enhance/learn skills in ones's area of work
	SA14. The capacity to learn from experience in a range of settings and scenarios and
	the capacity to reflect on and analyse one's learning.
	SA15. Is open to new ways of doing things
	SA16. The capacity to envisage and articulate personal goals; to develop strategies
	and take action to achieve them.
	SA17. Avoid absenteeism
	SA18. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA19. Be punctual
	Decision Making
B. Professional Skills	
	The user/individual on the job needs to know and understand how to:
	SB1. Take appropriate decisions regarding processing steps in view of changing
	quality and availability of raw materials and finished goods.
	SB2. Application of basic sciences, mathematics
	SB3. Application of statistics
	SB4. Use of a computer/ application software









RSC / N 1601 To Carry Out Statistical Analysis Of Data

The user/individual on the job needs to know and understand how to: SB5. seek clarification on problems from others SB6. apply problem-solving approaches in different situations SB7. refer anomalies to the line manager **Customer Centricity** NA **Problem Solving** The user/individual on the job needs to know and understand how to:

SB 8. Interpret quality for sheet

and experience

SB 9 . Suggest improvements(if any) in process/product/materials based on results

Analytical Thinking

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

SB 10. Diagnose common problems in the machine based on visual inspection, sound, temperature etc

SB 11. Suggest improvements(if any) in process based on experience

SB12. Interpret data and analyse results

SB13. Apply various tests/parameters for various purposes

SB14. Suggest improvements(if any) in process/product based on experience

Critical Thinking

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

SB15. Handle equipment/rubber sheet SB6. seek clarification on problems from others

SB16. apply problem-solving approaches in different situations

SB17. refer anomalies to the line manager



Occupation





29/12/17

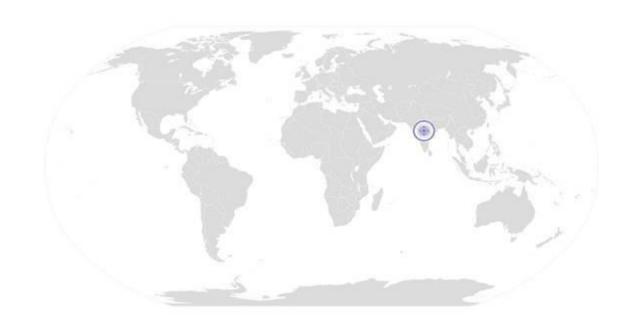


NOS Version Control

NOS Code	RSC / N 1601		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- Tyre	Last reviewed on	29/12/15

Next review date

Quality control











National Occupational Standard



Overview

This unit is about carrying out housekeeping









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









RSC / N 5001	To Cary Out Housekeeping
	meets requirements PC20. Return the equipment, materials and personal protective equipment that were used to the right places making sure they are clean, safe and securely stored PC21. Dispose the waste garnered from the activity in an appropriate manner PC22. Dispose of used and un-used solutions according to manufacturer's instructions, and clean the equipment thoroughly
General	PC23. Maintain schedules and records for housekeeping duty PC24. Replenish any necessary supplies or consumables
Knowledge and Under	standing (K)
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. The levels of hygiene required by workplace and why it is important to maintain them during your work KB2. How to inspect a work area to decide what cleaning it needs KB3. Methods and materials that used for cleaning variety of surfaces KB4. The types of cleansing agents that are not to be mixed together KB5. The correct method for cleaning equipment and/or machinery used during your work KB6. The importance of personal protective equipment KB7. Appropriate personal protective equipment for the work area, cleaning 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 (3)	Writing Skills
A. Core Skills/ Generic Skills	Writing Skills The user/ individual on the job needs to know and understand how to: SA1. Construct simple sentences and express ideas clearly through written communication SA2. Fill up appropriate technical forms, process charts, activity logs in required









RUBBER SKILL DEVELOPMENT COUNCIL	National Occupational Standards MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP Transforming the skill
RSC / N 5001	To Cary Out Housekeeping
	format of the company
	SA3. Write simple letters, mails, etc
	SA4. Perform functional mathematical operations, including apply basic
	mathematical principles, such as numbers and space, and techniques such as
	estimation and approximation, for practical purposes
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA5. Read and understand manuals, health and safety instructions, memos, reports,
	job cards etc
	SA6. Read images, graphs, diagrams
	SA7. Understand the various coding systems as per company norms
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA8. Express statements, opinions or information clearly so that others can hear and understand
	SA9. Respond appropriately to any queries
	SA10. Communicate with supervisor
	SA11. Communicate with upstream and downstream teams
	SA12. Work in a team and other behavioral skills required to support the small group
	activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
	SA13. Practice honesty with respect to company property and time
	SA14. Communicate with people in a form and manner and using language that is open and respectful
	SA15. Resolve any difficulties in relationships with colleagues , or get help from an
	appropriate person, in a way that preserves goodwill and trust
	SA16. Take responsibility for completing one's own work assignment
	SA17. Take initiative to enhance/learn skills in ones's area of work
	SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning.
	SA19. Is open to new ways of doing things
	SA20. The capacity to envisage and articulate personal goals; to develop strategies
	and take action to achieve them.
	SA21. Avoid absenteeism
	SA22. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA23. Work in disciplined factory environment
	SA24. Be punctual

Decision Making









To Cary Out Housekeeping

В.	Professional
	Skills

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

- SB5. Take appropriate decisions regarding processing steps in view of changing quality and availability of raw materials and finished goods.
- SB6. Application of basic sciences, mathematics
- SB7. Application of statistics
- SB8. Use of a computer/application software

Plan and Organize

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

- SB5. seek clarification on problems from others
- SB6. apply problem-solving approaches in different situations
- SB7. refer anomalies to the line manager

Customer Centricity

NA

Problem Solving

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

- SB 8. Interpret quality for sheet
- SB 9 . Suggest improvements(if any) in process/product/materials based on results and experience

Analytical Thinking

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

- SB 10. Diagnose common problems in the machine based on visual inspection, sound , temperature etc
- SB 11. Suggest improvements(if any) in process based on experience
- SB12. Interpret data and analyse results
- SB13. Apply various tests/parameters for various purposes
- SB14. Suggest improvements(if any) in process/product based on experience

Critical Thinking

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

- SB15. Handle equipment/rubber sheet SB6. seek clarification on problems from others
- SB16. apply problem-solving approaches in different situations
- SB17. refer anomalies to the line manager



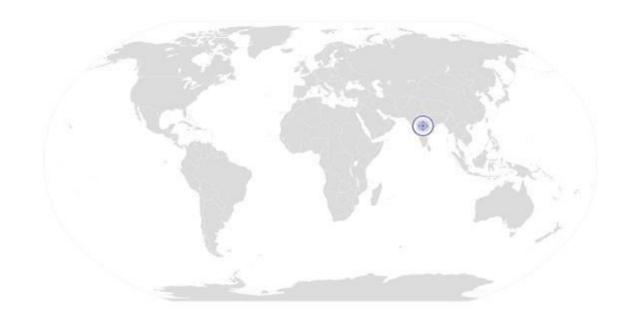






NOS Version Control

NOS Code	RSC / N 5001		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- Tyre	Last reviewed on	29/12/15
Occupation	Quality control	Next review date	29/12/17



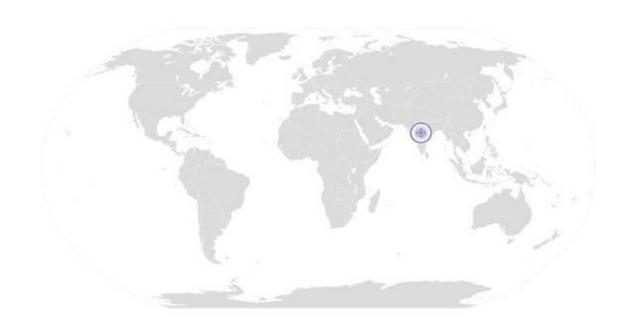








National Occupational Standard



Overview

This unit is about reporting and documentation



NOS lational Occupational Standards





To Carry Out Reporting And Documentation

To carry out reporting and documentation This unit is about carrying out reporting and documentation This unit/task covers the following: Reporting of data/problem/incidents etc Documentation Information Security (PC) w.r.t. the Scope
This unit is about carrying out reporting and documentation This unit/task covers the following: Reporting of data/problem/incidents etc Documentation Information Security
This unit/task covers the following: Reporting of data/problem/incidents etc Documentation Information Security
 Reporting of data/problem/incidents etc Documentation Information Security
DocumentationInformation Security
Information Security
(PC) w.r.t. the Scope
Performance Criteria
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
 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
PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures PC10. Inform the appropriate authority of requests for information received
erstanding (K)
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









To Carry Out Reporting And Documentation

RSC / N 5002	To Carry Out Reporting And Documentation
	timescales 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. 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
A. Core Skills/	mathematical principles, such as numbers and space, and techniques such
Generic Skills	as estimation and approximation, for practical purposes
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA5. Read and understand manuals, health and safety instructions, memos,
	reports, job cards etc
	SA6. Read images, graphs, diagrams
	SA7. Understand the various coding systems as per company norms
	Oral Communication (Listening and Speaking skills)









To Carry Out Reporting And Documentation

RSC / N 5002	To Carry Out Reporting And Documentation
	The user/individual on the job needs to know and understand how to:
	SA8. Express statements, opinions or information clearly so that others can hear
	and understand
	SA9. Respond appropriately to any queries
	SA10. Communicate with supervisor
	SA11. Communicate with upstream and downstream teams
	SA12. Work in a team and other behavioral skills required to support the small
	group activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
	SA13. Practice honesty with respect to company property and time
	SA14. Communicate with people in a form and manner and using language that
	is open and respectful
	SA15. Resolve any difficulties in relationships with colleagues , or get help from
	an appropriate person, in a way that preserves goodwill and trust
	SA16. Take responsibility for completing one's own work assignment
	SA17. Take initiative to enhance/learn skills in ones's area of work
	SA18. The capacity to learn from experience in a range of settings and scenarios
	and the capacity to reflect on and analyse one's learning.
	SA19. Is open to new ways of doing things
	SA20. The capacity to envisage and articulate personal goals; to develop
	strategies and take action to achieve them.
	SA21. Avoid absenteeism
	SA22. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA23. Work in disciplined factory environment
	SA24. Be punctual
	Decision Making
B.Professional	
Skills	The user/individual on the job needs to know and understand how to:
	SB1. Take appropriate decisions regarding processing steps in view of changing
	quality and availability of raw materials and finished goods.
	Plan and Organize
	Tiun and Organize
	The user/individual on the job needs to know and understand how to:
	SB2. seek clarification on problems from others
	SB3. apply problem-solving approaches in different situations
	SB4. refer anomalies to the line manager
	as in refer anomalies to the line manager
	Customer Centricity
	NA
	Problem Solving









To Carry Out Reporting And Documentation

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

SB 5. Interpret quality for sheet

SB 6 . Suggest improvements(if any) in process/product/materials based on results and experience

Analytical Thinking

The user/individual on the job needs to know and understand how to: SB7. Proper collection of waste material

SB8. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

Critical Thinking

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

SB9. Handle equipment/rubber sheet SB6. seek clarification on problems from others

SB10. apply problem-solving approaches in different situations

SB11. refer anomalies to the line manager











NOS Version Control

NOS Code	RSC / N 5002		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- Tyre	Last reviewed on	29/12/15
Occupation	Quality control	Next review date	29/12/17



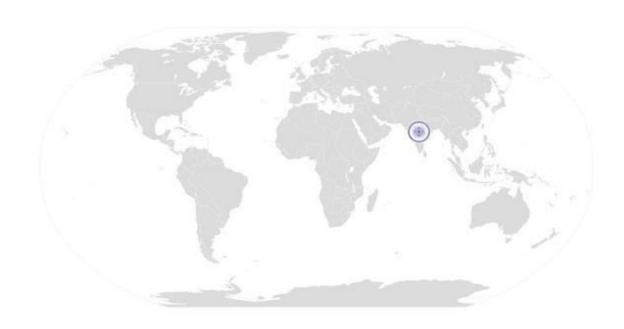








National Occupational Standard



Overview

This unit is about carrying out quality checks



NOS National Occupational Standards





To Carry Out Quality Checks

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









RSC / N 5003	To Carry Out Quality Checks
	KB3. Proper procedure for selecting the material/product and performing quality
	checks without affecting the material
	KB4. Availability of work instructions, as necessary,
	KB5. Characteristics of the product/material
	KB6. Use of suitable equipment
	KB7. Availability and use of monitoring and measuring devices,
	KB8. Requirements of records
	KB9. Importance of maintaining accurate up-to-date records
	KB10. The need to report within the stipulated time
	KB11. Implications of inaccurate measuring and testing instruments and equipment
	KB12. The cost of non-conformance to quality standards
	KB13. Implications (impact on internal/external customers) of defective products,
	materials or components
Skills (S)	
	Writing Skills
	The user/ individual on the job needs to know and understand how to:
	SA1. Construct simple sentences and express ideas clearly through written
	communication
	SA2. Fill up appropriate technical forms, process charts, activity logs in required
	format of the company
	SA3. Write simple letters, mails, etc
	SA4. Perform functional mathematical operations, including apply basic
A. Core Skills/	mathematical principles, such as numbers and space, and techniques such as
Generic Skills	estimation and approximation, for practical purposes
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA5. Read and understand manuals, health and safety instructions, memos, reports,
	job cards etc
	SA6. Read images, graphs, diagrams
	SA7. Understand the various coding systems as per company norms
	Oral Communication (Listening and Speaking skills)









To Carry Out Quality Checks

RSC / N 5003	To Carry Out Quality Checks
	The user/individual on the job needs to know and understand how to:
	SA8. Express statements, opinions or information clearly so that others can hear
	and understand
	SA9. Respond appropriately to any queries
	SA10. Communicate with supervisor
	SA11. Communicate with upstream and downstream teams
	SA12. Work in a team and other behavioral skills required to support the small group
	activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
	SA13. Practice honesty with respect to company property and time
	SA14. Communicate with people in a form and manner and using language that is
	open and respectful
	SA15. Resolve any difficulties in relationships with colleagues , or get help from an
	appropriate person, in a way that preserves goodwill and trust
	SA16. Take responsibility for completing one's own work assignment
	SA17. Take initiative to enhance/learn skills in ones's area of work
	SA18. The capacity to learn from experience in a range of settings and scenarios and
	the capacity to reflect on and analyse one's learning.
	SA19. Is open to new ways of doing things
	SA20. The capacity to envisage and articulate personal goals; to develop strategies
	and take action to achieve them.
	SA21. Avoid absenteeism
	SA22. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA23. Work in disciplined factory environment
	SA24. Be punctual
B.Professional Skills	Decision Making
D.FTOTESSIONAL SKINS	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.
	and dramatinely enternancement and innover goods.
	Plan and Organize
	The user/individual on the job needs to know and understand how to:
	SB2. seek clarification on problems from others
	SB3. apply problem-solving approaches in different situations
	SB4. refer anomalies to the line manager
	Customer Centricity
	NA
	Problem Solving









To Carry Out Quality Checks

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

SB 5. Interpret quality for sheet

SB 6 . Suggest improvements(if any) in process/product/materials based on results and experience

Analytical Thinking

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

SB7. Proper collection of waste material

SB8. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience

Critical Thinking

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

SB9. Handle equipment/rubber sheet SB6. seek clarification on problems from others

SB10. apply problem-solving approaches in different situations

SB11. refer anomalies to the line manager



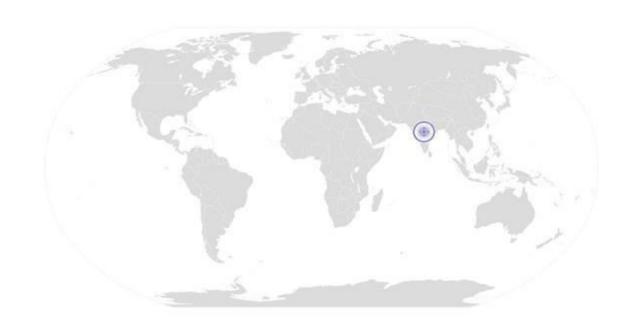






NOS Version Control

NOS Code	RSC / N 5003		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- Tyre	Last reviewed on	29/12/15
Occupation	Quality control	Next review date	29/12/17



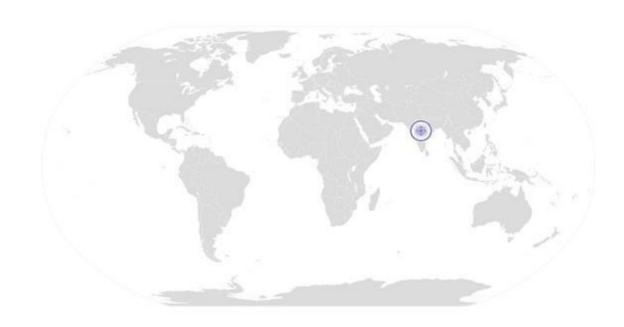








National Occupational Standard



Overview

Overview

This unit is about problem identification and escalation



NOS National Occupational Standards





To Carry Out Problem Identification And Escalation

Unit Code	RSC / N 5004		
Unit Title	N3C/ N 3004		
(Task)	To carry out problem identification and escalation		
Description	This unit is about problem identification and escalation		
Scope	This unit/task covers the following:		
	Identify problems across:		
	- Raw materials		
	- Compounds		
	- Product		
	- Equipment		
	- Others		
	Identify solutions to problems		
	Take corrective action		
	Escalation of unresolved identified problems		
Performance Criteria (PC) w.r.t. the Scope			
Element	Performance Criteria		
Problem Identification	To be competent, the user/individual on the job must be able to: PC1. Identify defects/indicators of problems PC2. Identify any wrong practices that may lead to problems PC3. Identify practices that may impact the final product quality PC4. Identify if the problem has occurred before PC5. Identify other operations that might be impacted by the problem PC6. Ensure that no delays are caused as a result of failure to escalate problems		
Necessary Action	PC7. Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required) PC8. Consider possible reasons for identification of problems PC9. Consider applicable corrections and formulate corrective action PC10. Formulate action in a timely manner PC11. Communicate problem/remedial action to appropriate parties PC12. Take corrective action in a timely manner PC13. Take corrective action for problems identified according to the company procedures PC14. Report/document problem and corrective action in an appropriate manner PC15. Monitor corrective action		









	PC16. Evaluate implementation of corrective action taken to determine if the
	problem has been resolved
	PC17. Ensure that corrective action selected is viable and practical
	PC18. Ensure that correct solution is identified to an identified problem
	PC19. Take corrective action for problems identified according to the company procedures
	PC20. Ensure that no delays are caused as a result of failure to take necessary action
	PC21. Escalate problem as per laid down escalation matrix
Duahlam Faralatian	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 Unde	rstanding (K)
	The user/individual on the job needs to know and understand:
	KP1 Indicators of problems
	KB1. Indicators of problems
	KB2. The working of the equipment and accessories (if applicable)
	KB3. The impact of operations on the user and equipment(if applicable)
	KB4. The impact of operations on the final product (if applicable)
	KB5. The effect of not rectifying the problems identified
	KB6. The reason for the occurrence of previous problems
B. Technical	KB7. Measures and steps that have been taken to address the previous problems KB8. Possible solutions for various problems
Knowledge	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 VD12 The escalation matrix for reporting problems
	KB12. The escalation matrix for reporting problems
	KB13. Escalation matrix for reporting unresolved problems
	KB14. The time frame within which in which each problem needs to be escalated
	KB15. Manner in which each problem needs to be escalated
Skills (S)	
	Writing Skills
	The user/ individual on the job needs to know and understand how to:
A. Core Skills/	SA1. Construct simple sentences and express ideas clearly through written
Generic Skills	communication
	SA2. Fill up appropriate technical forms, process charts, activity logs in required format of the company
	SA3. Write simple letters, mails, etc









	,
	SA4. Perform functional mathematical operations, including apply basic
	mathematical principles, such as numbers and space, and techniques such as
	estimation and approximation, for practical purposes
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA5. Read and understand manuals, health and safety instructions, memos, reports,
	job cards etc
	SA6. Read images, graphs, diagrams
	SA7. Understand the various coding systems as per company norms
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA8. Express statements, opinions or information clearly so that others can hear
	and understand
	SA9. Respond appropriately to any queries
	SA10. Communicate with supervisor
	SA11. Communicate with upstream and downstream teams
	SA12. Work in a team and other behavioral skills required to support the small group
	activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
	SA13. Practice honesty with respect to company property and time
	SA14. Communicate with people in a form and manner and using language that is open and respectful
	SA15. Resolve any difficulties in relationships with colleagues , or get help from an appropriate person, in a way that preserves goodwill and trust
	SA16. Take responsibility for completing one's own work assignment
	SA17. Take initiative to enhance/learn skills in ones's area of work
	SA18. The capacity to learn from experience in a range of settings and scenarios and
	the capacity to reflect on and analyse one's learning.
	SA19. Is open to new ways of doing things
	SA20. The capacity to envisage and articulate personal goals; to develop strategies
	and take action to achieve them.
	SA21. Avoid absenteeism
	SA22. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA23. Work in disciplined factory environment
	SA24. Be punctual
B B (Decision Making
B.Professional Skills	The user/individual on the job needs to know and understand how to:
	SB1. Take appropriate decisions regarding processing steps in view of changing quality
	and availability of raw materials and finished goods.
	and availability of raw materials and mished goods.









RSC / N 5004	To Carry Out Problem Identification And Escalation
	Plan and Organize
	The user/individual on the job needs to know and understand how to:
	SB2. seek clarification on problems from others
	SB3. apply problem-solving approaches in different situations
	SB4. refer anomalies to the line manager
	Customer Centricity
	NA
	Problem Solving
	The user/individual on the job needs to know and understand how to:
	SB 5. Interpret quality for sheet
	SB 6 . Suggest improvements(if any) in process/product/materials based on results
	and experience
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB7. Proper collection of waste material
	SB8. Identify defects in the material and communicate it at the earliest and suggest
	improvements(if any) in process/material based on experience
	Critical Thinking
	The user/individual on the job needs to know and understand how to:
	SB9. Handle equipment/rubber sheet SB6. seek clarification on problems from others

SB10. apply problem-solving approaches in different situations

SB11. refer anomalies to the line manager









NOS Version Control

NOS Code	RSC / N 5004		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber Manufacturing	Drafted on	20/03/13
Industry Sub-sector	Tyre and Non- Tyre	Last reviewed on	29/12/15
Occupation	Quality control	Next review date	29/12/17



Back to QP

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role: Quality Control Inspector -Statistical process control

Qualification Pack Code: RSC/ Q 0416

Sector Skill Council: Rubber Skill Development Council

Guidelines for Assessment

- 1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC
- 2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC
- 3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)
- 4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria
- 5. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS
- 6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

Assessment Strategy			Marks Allocation		
NOS	Elements	Performance Criteria	Tot	Theo	Practi
			al	ry	cal
	Data	PC1. Prepare/collect different production/product related data for analysis	4	4	0
	Collection	PC2. Check the validity of the data collected.	10	4	6
		PC3. Keep tools like calipers, gauges duly calibrated/validated/verified and accessories like calculator, computer ready before starting the analysis as per SOP.	12	4	8
1. RSC/N1601	Analysis	PC4. Follow appropriate statistical procedures while conducting analysis	23	8	15
To Carry Out		PC5. Record the data analysis	12	0	12
Statistical		PC6. Interpret results	25	10	15
Analysis Of Data		PC7. Take up the findings with QC in charge/appropriate authority and help in design of experiments for quality improvement.	2	2	0
		PC8. Ensure Housekeeping and safety in the analysis area	8	4	4
	Health & Safety	PC9. Comply with health, safety, environment guidelines, regulations etc in accordance with international/national standards or organizational SOP	4	4	0
			100	40	60
2. RSC/N5001	Pre housekeepi	PC1. Inspect the area while taking into account various surfaces	3	3	0

To Carry	ng	PC2. Identify the material requirements for cleaning			
Out	activities	the areas inspected, by considering risk, time,	3	3	0
Housekeep		efficiency and type of stain			
ing		PC3. Ensure that the cleaning equipment is in proper	3	3	0
		working condition	5	5	0
		PC4. Select the suitable alternatives for cleaning the			
		areas in case the appropriate equipment and	3	3	0
		materials are not available and inform the	5	3	
		appropriate person			
		PC5. Plan the sequence for cleaning the area to	3	3	0
		avoid re-soiling clean 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
		PC8. Ensure that there is adequate ventilation for	2	2	_
		the work being carried out	3	3	0
		PC9. Wear the personal protective equipment			
		required for the cleaning method and materials	3	3	0
		being used			
		PC10. Use the correct cleaning method for the work	3	3	0
		area, type of soiling and surface			
		PC11. Carry out cleaning activity without disturbing	3	3	0
		others			
	Operations	PC12. Deal with accidental damage, if any, caused	3	3	0
	Operations	while carrying out 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 cleaning required that is outside one's	3	3	0
		responsibility or skill		3	
		PC15. Ensure that there is no oily substance on the	_	_	
		floor to avoid slippage	9	3	6
		PC16. Ensure that no scrap material is lying around	9	3	6
		PC17. Maintain and store housekeeping equipment	2	2	0
		and supplies	3	3	0
Doct	Post	PC18. Follow workplace procedures to deal with any			
	housekeepi ng	accidental damage caused during the cleaning	3	3	0
		process			
activities		PC19. Ensure that, on completion of the work, the	8	2	6
	area is left clean and dry and meets requirements				
		PC20. Return the equipment, materials and personal			
		protective equipment that were used to the right	3	3	0
		places making sure they are clean, safe and securely stored			
			9	3	6
		PC21. Dispose the waste garnered from the activity	9	3	6

		in an appropriate manner			
		PC22. Dispose of used and un-used solutions according to manufacturer's instructions, and clean the equipment thoroughly	9	3	6
		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
3.		PC4. Identify documentation to be completed relating to one's role	10	6	4
RSC/N5002 To Carry		PC5. Record details accurately an appropriate format	16	6	10
Out	Recording and Document ation	PC6. Complete all documentation within stipulated time according to company procedure	14	4	10
Reporting And Document ation		PC7. Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly	6	4	2
ution		PC8. Make sure documents are available to all appropriate authorities to inspect	6	4	2
	Informatio	PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures	6	6	0
	n Security	PC10. Inform the appropriate authority of requests for information received	6	6	0
			100	60	40
	Inspection	PC1. Ensure that total range of checks are regularly and consistently performed	24	10	14
		PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as required	24	10	14
4.	Analysis	PC3. Identify non-conformities to quality assurance standards	6	4	2
RSC/N5003 To Carry		PC4. Identify potential causes of non-conformities to quality assurance standards	5	3	2
Out Quality Checks		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
	Problem Identificati on	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
5.	Necessary Action	PC7. Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for nonconformance (where required)	8	5	3
RSC/N5004 To Carry Out		PC8. Consider possible reasons for identification of problems	8	5	3
Problem Identificati		PC9. Consider applicable corrections and formulate corrective action	3	3	0
on And		PC10. Formulate action in a timely manner	3	3	0
Escalation		PC11. Communicate problem/remedial action to appropriate parties	7	5	2
		PC12. Take corrective action in a timely manner	2	2	0
		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	2	2	0

	identified problem			
	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
Problem	PC22. Escalate the problem within stipulated time	4	3	1
Escalation	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