





### 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- Lab Chemist- Compound testing – Batch Release

**SECTOR:** RUBBER INDUSTRY

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

**OCCUPATION:** Lab Chemist

REFERENCE ID: RSC/ Q 0313

**ALIGNED TO: NCO-2004/NIL** 

**Brief Job Description:** The compound testing for batch release involves carrying out of tests as per laid down methods and specifications.

**Personal Attributes:** This job requires the individual to work independently and with integrity. He must have good technical, analytical and interpersonal skills. He must be able to interpret findings and take necessary corrective actions.







### Qualification Pack for Lab Chemist- Compound Testing- Batch Release

Qualifications Pack Code	RSC/ Q 0313		
Job Role	Lab Chemist- Compound testing - Batch Release		
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	Lab Chemist	Next review date	29/12/17
NSQC Clearnace on	18/06/2015		

Job Role	Lab Chemist - Compund testing - Batch Release	
	The compound testing for batch release involves carrying out	
Role Description	of tests as per laid down methods and specifications	
NSQF level	5	
Minimum Educational Qualifications*	Diploma	
Maximum Educational Qualifications*	Masters in Science	
Training (Suggested but not mandatory)	-	
	10	
Minimum Job Entry Age	18 years	
Experience	-	
	Compulsory:	
	1. RSC/ N1301 (To test rubber compound)	
	2. RSC/ N5001 (To carry out housekeeping)	
	3. RSC/ N5002 (To carry out reporting and documentation)	
Applicable National Occupational	4. RSC/ N5003 (To carry out quality checks)	
Standards (NOS)	5. RSC/ N5004 ( <u>To carry out problem identification and</u>	
	escalation )	
	Optional:	
	6. NA	
Performance Criteria	As described in the relevant OS units	







### Qualification Pack for Lab Chemist- Compound Testing- Batch Release

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









# National Occupational Standard

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### **Overview**

This unit is about carrying out testing compound for batch release



# **To Test Rubber Compound**





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Unit Code	RSC / N 1301		
Unit Title	To test subber compound		
(Task)	To test rubber compound		
Description	This unit is about testing compound for batch release and batch validation		
Scope	This unit/task covers the following:		
	<ul> <li>Ensuring housekeeping and safety in the lab testing area</li> <li>Equipment preparation and calibration of instruments to be used in the testing process.</li> <li>Prepare test samples</li> <li>Carry out tests as per laid down method and specification</li> <li>Data Logging</li> <li>Interpret data, judgment and reporting</li> <li>Record Keeping</li> </ul>		
Performance Criteria (F	PC) w.r.t. the Scope		
Sample collection	PC1. Determine the minimum amount of compound required for testing to achieve the desired level of confidence in the tests.  PC2. Sample the compound as per SOP  PC3. Sampling should be as per process flow sheet with control points  PC4. Ensure that sample is suitable for test/analysis  PC5. Mould compound to appropriate standard test specimens (button/ dumbbell / slab)for testing  PC6. Identify the defect/problem in inappropriate sample  PC7. Follow the procedure laid down by the company while labeling/numbering samples		
Sample integrity	PC8. Follow procedures to maintain conditioning of the sample (eg. Time, temperature, humidity, mechanical stress etc) as per SOP PC9. Follow SOP to store sample for future/further testing		
Equipment readiness	PC10. Identify the most appropriate equipment such as Rheometer, Mooney Viscometer, Densometer, Dispergrader, Tensile Tester, Hardness Tester, Rebound Resilience Tester and accessories for testing PC11. Set up appropriate equipment or apparatus for testing correctly PC12. Calibrate the testing equipment periodically as per SOP. PC13. Identify defective equipment/apparatus and steps to be taken PC14. Verify the equipment accuracy by running the reference		
Sample testing	PC15. Identify appropriate tests like Specific Gravity, Dispersion, Rheometry, Mooney		









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	Viscosity, Mooney Scorch, Hardness, Tensile, Elongation at break, Modulus,
	Tear strength, Rebound Resilience, as per SOP
	PC16. Carry out tests in accordance with SOP and desired individual test frequency
Data analysis	PC17. Keep tools and accessories like calculator ready before starting the analysis in accordance to the standard (IS/ISO or other international standards) PC18. Ensure that the accuracy and periodicity of the data captured in records is as per SOP PC19. Identify appropriate technique in evaluating result PC20. Interpret the results correctly using the identified technique(s)
	PC21. Record and maintain data as per company standards
Recording	
	PC22. Ensure that reports/records are accurate and clear
Reporting	PC23. Release or Hold the raw material as per finding for further processing.  PC24. Take up the results of the findings with supplier/QC in-charge/appropriate authority.
Health and Safety	PC25. Housekeeping and safety in the lab testing area PC26. Handle the equipment properly PC27. Ensure samples and chemicals are carefully handled to avoid accidental spillage of chemicals. PC28. Conduct the experiments wearing the appropriate attire such as safety goggles, gloves, closed toe shoes, long pants, tied hair PC29. Use safety equipment such as fire extinguishers, fire blankets, and eye-wash stations. PC30. Escalate matters in case of any accidents, spills etc. PC31. Comply with health, safety, environment guidelines, regulations etc in accordance with international/national standards or organizational standards
Material disposal	PC32. Carry out disposal of waste and left over tested-material safely as per SOP PC33. Dispose all materials used in the experiment safely as per Health and Safety management system of the company
Knowledge and Unders	standing (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. Organisational Coding system of raw material and compounds
(Knowledge of the	KA2. Chemicals used in the industry and their function
company /	KA3. Different quality management systems (ISO-9000, TS16949, ISO-14001,
organization and	OHSAS-18000)
its processes)	KA4. Principles of good laboratory practices (ISO/IEC 17025) applicable in the workplace
	KA5. Material disposal procedure, importance of appropriate disposal of material and implications of not following the material disposal procedure









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	KA6. Importance of identifying non-conforming products and storage of the same			
	KA7. Risk and impact of not following defined procedures/work instructions			
	KA8. Escalation matrix for reporting identified issues			
	KA9. Types of documentation in organization and importance of the same			
	KA10. Records to be maintained and implications of non-maintenance of the same			
	KA11. Company manual and from where to attain it			
	KA12.Importance of housekeeping & good shop floor practices (e.g.3S/5S)			
	KA13. Health, Safety and Environment guidelines, legislation and regulations as applicable			
	KA14. Personal protection (Which protective equipment to be used and how)			
	KA15.Impact of poor practices on health, safety and environment			
	KA16. Potential hazards and actions to minimize the same			
	KA17. Escalation matrix and escalation procedure for reporting hazards.			
	KA18. The usage of fire extinguisher			
	KA19. Impact of various practices on cost, quality, productivity, delivery and safety			
	KA20. Handover/ Takeover the equipment/ work area as per company's SOP			
B. Technical	The user/individual on the job needs to know and understand:			
Knowledge	KB1. Knowledge of basic chemistry and simple chemical calculation			
	KB2. Knowledge on different standard reference material			
	KB3. Role of different raw materials in rubber compounding, processing/			
	product manufacturing and performance			
	KB4. Understanding of role of the Rheometry and Mooney viscometry,			
	Densometer, Dispergrader, Tensile Tester, Hardness Tester, Rebound			
	Resilience Tester in rubber technology & product manufacturing			
	KB5. Testing equipments and related test methods and purpose of tests			
	KB6. Calibration procedure for test equipment			
	KB7. Use of chemicals, basic sciences and mathematics			
	KB8. Standard method of drawing samples and preparing them for testing			
	KB9. Importance of sample conditioning for testing			
	KB10. How to assess if a sample is suitable for testing			
	KB11. Methods/techniques used for labeling samples			
	KB12. Procedure to be followed in case the sample is unfit for testing			
	KB13. National/International standard test methods for different compounds			
	KB14. Understanding of Specifications of tests & their importance in the			
	release system.			
	KB15. The methods that can be used for controlling test variables			
	KB16. Potential problems in performing experiments			
	KB17. Indicators and reasons of potential problems			
	KB18. Implications (impact on internal/external customers) of defective			
	products, materials or components.			









	KB19. Procedures for storing samples
	KB20. Factors that adversely affect integrity of the sample
	KB21. Statistical analysis of test data
	KB22. How to obtain and interpret records, charts, specifications, equipment
	manuals, history/technical support reports and other documents
	KB23. Methods and techniques involved in evaluating information
	KB24. Use of Computer/application software
	KB25. Units of measurement
Skills (S)	
	Writing 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
	The user/individual on the job needs to know and understand how to:
	SA3. Read and understand manuals, health and safety instructions, memos, reports,
	job cards etc
	SA4. Read images, graphs, diagrams
	SA5. 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:
	SA6. Communication with upstream and downstream teams
A. Core Skills/	SA7. Communicate with job owners like sample originating section, supplier etc.
Generic Skills	SA8. Work in a team and other behavioral skills required to support the small group
	activities (Eg. Quality Circle, Cross Functional Team, Suggestion Scheme)
	SA9. Disclose information only to those who have the right and need to know it.
	SA10. Communicate confidential and sensitive information discretely to authorized
	person as per SOP
	Integrity
	The user/individual on the job needs to know and understand how to:
	SA11. Practice honesty with respect to company property and time
	SA12. Communicate with people in a form and manner and using language that is open and respectful
	SA13. Resolve any difficulties in relationships with colleagues , or get help from an
	appropriate person, in a way that preserves goodwill and trust
	Motivation
	The user/individual on the job needs to know and understand how to:
	SA14. Take responsibility for completing one's own work assignment
	SA15. Take initiative to enhance/learn skills in ones's area of work









	SA16. The capacity to learn from experience in a range of settings and scenarios and
	the capacity to reflect on and analyse one's learning.
	SA17. Is open to new ways of doing things
	SA18. The capacity to envisage and articulate personal goals; to develop strategies
	and take action to achieve them.
	Reliability
	The user/individual on the job needs to know and understand how to:
	SA19. Avoid absenteeism
	SA20. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
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	SA21.Be punctual
	Decision Making
B.Professional Skills	The user/individual on the job needs to know and understand how to:
	Handle equipment/apparatus
	Handle rubber compound
	Handle chemicals and laboratory reagents
	Handle rubber products
	Complex sample components
	Perform computer operations
	Plan and Organize
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	Plan and Organize  The user/individual on the job needs to know and understand how to:
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	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  Application of basic sciences (chemistry), mathematics Application of statistics Use of computer/ application software  Problem Solving  The user/individual on the job needs to know and understand how to:









### **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

Diagnose common problems in the machine based on visual inspection, sound , temperature  ${\it etc}$ 

Suggest improvements(if any) in process 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 1301		
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	Lab Chemist	Next review date	29/12/17









# National Occupational Standard

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**Overview** 

This unit is about carrying 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 (	PC	) w.r.t. the Sco	pe
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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
	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
6I	PC23. Maintain schedules and records for housekeeping duty
General	PC24. Replenish any necessary supplies or consumables
Knowledge and Under	standing (K)
	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
B.Technical	KB8. The correct sequence for cleaning the work area
Knowledge	KB9. The time taken by the treatment to work
	KB10. The importance of following manufacturer's instructions on cleaning agents
	KB11. The most appropriate place to carry out test cleans and why this should be done before applying treatments
	KB12. The importance of applying treatments evenly and the effect of not doing this
	KB13. Process of cleaning the surfaces without causing injury or damage
	KB14. The method to check the treated surface and equipment on completion of
	cleaning
	KB15. Procedures for reporting any unidentified soiling
	KB16. Procedures for disposing off waste
	KB17. Procedures for disposing off or storing personal protective equipment
	KB18. Escalation procedures for soils or stains that could not be removed
Skills (S)	
A. Core Skills/	Writing Skills







### **Generic Skills**

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

- SA1. Construct simple sentences and express ideas clearly through written communication
- SA2. Fill up appropriate technical forms, process charts, activity logs in required format of the company
- SA3. Write simple letters, mails, etc
- SA4. Perform functional mathematical operations, including apply basic mathematical principles, such as numbers and space, and techniques such as estimation and approximation, for practical purposes

### Reading Skills

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

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

### Oral Communication (Listening and Speaking skills)

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

- SA8. Express statements, opinions or information clearly so that others can hear and understand
- SA9. Respond appropriately to any queries
- SA10. Communicate with supervisor
- SA11. Communicate with upstream and downstream teams
- SA12. Work in a team and other behavioral skills required to support the small group activities (Quality Circle, Cross Functional Team, Suggestion Scheme)

### Integrity

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

- SA13. Practice honesty with respect to company property and time
- SA14. Communicate with people in a form and manner and using language that is open and respectful
- SA15. Resolve any difficulties in relationships with colleagues , or get help from an appropriate person, in a way that preserves goodwill and trust

### Motivation

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

- SA16. Take responsibility for completing one's own work assignment
- SA17. Take initiative to enhance/learn skills in ones's area of work
- SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning.
- SA19. Is open to new ways of doing things
- SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them.

### Reliability







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	The user/individual on the job needs to know and understand how to:
	SA21. Avoid absenteeism
	SA22. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA23. Work in disciplined factory environment
	SA24. Be punctual
	Decision Making
B.Professional Skills	The user/individual on the job needs to know and understand how to:
	Handle equipment/apparatus
	Handle rubber compound
	Handle chemicals and laboratory reagents
	Handle rubber products
	Complex sample components
	Perform computer operations
	Perform computer operations
	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
	Application of basic sciences (chemistry), mathematics
	Application of statistics
	Use of computer/ application software
	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









Diagnose common problems in the machine based on visual inspection, sound ,
temperature etc
Suggest improvements(if any) in process 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
SB10. apply problem-solving approaches in different situations SB11. 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	Lab Chemist	Next review date	29/12/17

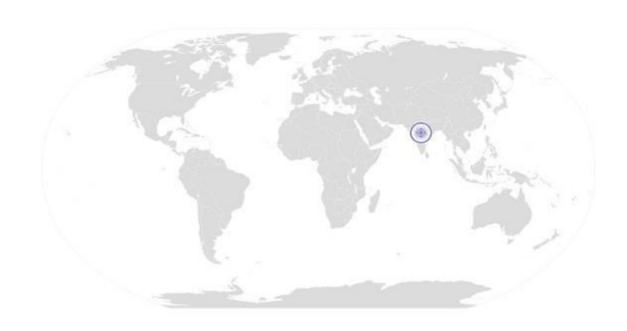








# National Occupational Standard



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### **Overview**

This unit is about reporting and documentation



# NOS National Occupational Standards





### To Carry Out Reporting And Documentation

Unit Code	RSC / N 5002		
Unit Title	To carry out reporting and documentation		
(Task)  Description	This unit is about carrying out reporting and documentation		
Scope	This unit is about carrying out reporting and documentation		
30000	This unit/task covers the following:		
	Reporting of data/problem/incidents etc		
	Documentation		
	Information Security		
Performance Criteria (			
Element	Performance Criteria		
	To be accomplished the constitutional on the interest to able to		
	To be competent, the user/individual on the job must be able to:  PC1. Report data/problems/incidents as applicable in a timely manner		
Reporting	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		
Recording and	procedure		
Documentation	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		
Information Security	organizational procedures		
	PC10. Inform the appropriate authority of requests for information received		
Knowledge and Unders	standing (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		
B. Technical	KB4. Procedures for reporting to the appropriate authority		
Knowledge	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		









₩RSDC	Nation Skill D
RSC / N 5002	National Occupational Standards  To Carry Out Reporting And Documentation  Occupational Standards  GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT A ENTREPRENEURSHIP A ENTREPRENEURSHIP
RSC / N SOOZ	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)	Satisfies party
	Writing Skills
A. Core Skills/ Generic Skills	The user/ individual on the job needs to know and understand how to:  SA1. Construct simple sentences and express ideas clearly through written communication  SA2. Fill up appropriate 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)  Integrity  The user/individual on the job needs to know and understand how to:  SA13. Practice honesty with respect to company property and time  SA14. Communicate with people in a form and manner and using language that is open and respectful  SA15. Resolve any difficulties in relationships with colleagues , or get help from an appropriate person, in a way that preserves goodwill and trust









# National Occupational Standards To Carry Out Reporting And Documentation MINISTRY OF SKILL DEVELOPMENT a ENTREPRENEURSHIP

RSC / N 5002	To Carry Out Reporting And Documentation
	Motivation
	The user/individual on the job needs to know and understand how to:
	SA16. Take responsibility for completing one's own work assignment
	SA17. Take initiative to enhance/learn skills in ones's area of work
	SA18. The capacity to learn from experience in a range of settings and scenarios and
	the capacity to reflect on and analyse one's learning.
	SA19. Is open to new ways of doing things
	SA20. The capacity to envisage and articulate personal goals; to develop strategies
	and take action to achieve them.
	Reliability
	The user/individual on the job needs to know and understand how to:
	SA21. Avoid absenteeism
	SA22. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA23. Work in disciplined factory environment
	SA24. Be punctual
	SA24. Be punctual
	Decision Making
	ŭ
B.Professional Skills	The user/individual on the job needs to know and understand how to:
	Ulandla ancionada (anasata)
	Handle equipment/apparatus
	Handle rubber compound
	Handle chemicals and laboratory reagents
	Handle rubber products
	Complex sample components
	Perform computer operations
	Diam and Oursering
	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
	Application of basic sciences (chemistry), mathematics
	Application of statistics
	Use of computer/ application software
	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

Diagnose common problems in the machine based on visual inspection, sound , temperature  ${\it etc}$ 

Suggest improvements(if any) in process 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





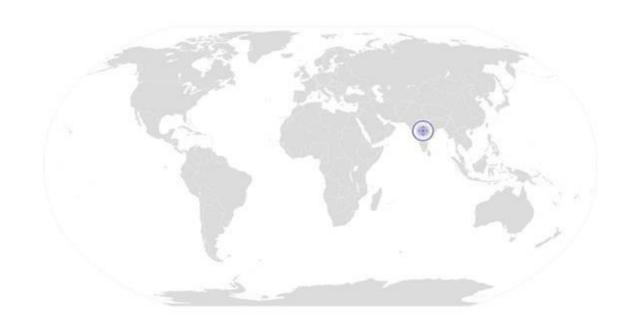






## **NOS Version Control**

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	Lab Chemist	Next review date	29/12/17











# National Occupational Standard



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### **Overview**

This unit is about carrying 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	<ul> <li>This unit/task covers the following:</li> <li>Carrying out quality checks to identify problems</li> <li>Take corrective actions</li> <li>Reporting the results</li> </ul>

	Take corrective actions
	Reporting the results
Performance Crit	eria (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 U	Jnderstanding (K)
	The user/individual on the job needs to know and understand:

Knowledge and Unders	Knowledge and Understanding (K)		
B. Technical	The user/individual on the job needs to know and understand:		
Knowledge	KB1. The importance of quality control procedures		
	KB2. Relevance and importance of activities and how they contribute to the achievement of the quality objectives,		









RSC / N 5003	To Carry Out Quality Checks  MINISTRY OF SKILL DEVELOPMEN  & ENTREPRENEURSHIP	NT Transforming the
	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 eq	uipment
	KB12. The cost of non-conformance to quality standards	
	KB13. Implications (impact on internal/external customers) of defective pro	oducts,
	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 writte	ın
	communication	"
	SA2. Fill up appropriate technical forms, process charts, activity logs in rec	nuired
	format of the company	Aun eu
	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	s such as
Generic Skills	estimation and approximation, for practical purposes	, such as
	Reading Skills	
	The user/individual on the job needs to know and understand how to:	
	SA5. Read and understand manuals, health and safety instructions, memo	is, 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)	









RSC / N 5003	To Carry Out Quality Checks	MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP				
	The user/individual on the job needs to know and unde	rstand 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 tea	ams				
	SA12. Work in a team and other behavioral skills require	d to support the small group				
	activities (Quality Circle, Cross Functional Team, So	uggestion Scheme)				
	Integrity					
	The user/individual on the job needs to know and unde	rstand how to:				
	SA13. Practice honesty with respect to company propert	ry and time				
	SA14. Communicate with people in a form and manner a open and respectful	and using language that is				
	SA15. Resolve any difficulties in relationships with collect					
	appropriate person, in a way that preserves goods	wiii and trust				
	Motivation	and and beautiful				
	The user/individual on the job needs to know and unde	The second secon				
	SA16. Take responsibility for completing one's own work	V -				
	SA17. Take initiative to enhance/learn skills in ones's are					
	SA18. The capacity to learn from experience in a range o					
	the capacity to reflect on and analyse one's learning	ng.				
	SA19. Is open to new ways of doing things	cala ta davalan stratagias				
	SA20. The capacity to envisage and articulate personal grand take action to achieve them.	oals; to develop strategies				
	Reliability	100 200				
	The user/individual on the job needs to know and unde	rstand how to:				
	SA21. Avoid absenteeism					
	SA22. Act objectively , rather than impulsively or emotion	onally when faced with				
	difficult/stressful or emotional situations	·				
	SA23. Work in disciplined factory environment					
	SA24. Be punctual					
	Decision Making					
	Decision Making					
B.Professional Skills	The user/individual on the job needs to know and underst	tand how to:				
	Handle equipment/apparatus					
	Handle rubber compound					
	Handle chemicals and laboratory reagents					
	Handle rubber products					
	Complex sample components					
	Perform computer operations					









### **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**

Application of basic sciences (chemistry), mathematics

Application of statistics

Use of computer/ application software

### **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

Diagnose common problems in the machine based on visual inspection, sound , temperature etc  $\,$ 

Suggest improvements(if any) in process 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



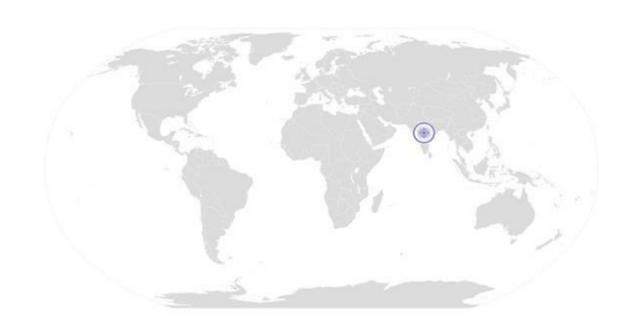






## **NOS Version Control**

NOS Code	RSC / N 5003			
Credits(NSQF)	5	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	Lab Chemist	Next review date	29/12/17	



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# National Occupational Standard



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### **Overview**

This unit is about problem identification and escalation



# NOS National Occupational Standards





# To Carry Out Problem Identification And Escalation & Entrepreneurship

K3C / IN 3004	TO Carry Out Problem Identification And Escalation Aeniherreneorship			
Unit Code	RSC / N 5004			
Unit Title (Task)	To carry out problem identification and escalation			
Description	This unit is about problem identification and escalation			
Scope	This unit/task covers the following:  Identify problems across:  Raw materials Compounds Product Equipment Others  Identify solutions to problems Take corrective action			
	Escalation of unresolved identified problems			

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

Element	Performance Criteria
Problem Identification	To be competent, the user/individual on the job must be able to: PC1. Identify defects/indicators of problems PC2. Identify any wrong practices that may lead to problems PC3. Identify practices that may impact the final product quality PC4. Identify if the problem has occurred before PC5. Identify other operations that might be impacted by the problem PC6. Ensure that no delays are caused as a result of failure to escalate problems
Necessary Action	PC7. Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required)  PC8. Consider possible reasons for identification of problems  PC9. Consider applicable corrections and formulate corrective action  PC10. Formulate action in a timely manner  PC11. Communicate problem/remedial action to appropriate parties  PC12. Take corrective action in a timely manner  PC13. Take corrective action for problems identified according to the company procedures  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









RSC / N 5004	To Carry Out Problem Identification And Escalation And Escalation And Escalation And Escalation Transforming the
	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
Budden Budatta	PC22. Escalate the problem within stipulated time
Problem Escalation	PC23. Escalate the problem in an appropriate manner
	PC24. Ensure that no delays are caused as a result of failure to escalate problems
Knowledge and Under	standing (K)
	The user/individual on the job needs to know and understand:
	KB1. Indicators of problems
	KB2. The working of the equipment and accessories( if applicable)
	KB3. The impact of operations on the user and equipment( if applicable)
	KB4. The impact of operations on the final product ( if applicable)
	KB5. The effect of not rectifying the problems identified
	KB6. The reason for the occurrence of previous problems
B. Technical	KB7. Measures and steps that have been taken to address the previous problems
Knowledge	KB8. Possible solutions for various problems
	KB9. The correct method for carrying out corrective actions outlined for each problem
	KB10. The impact of not carrying out the corrective actions
	KB11. The documentation procedure for recording such problems, as per company norms
	KB12. The escalation matrix for reporting problems
	KB13. Escalation matrix for reporting unresolved problems
	KB14. The time frame within which in which each problem needs to be escalated
	KB15. Manner in which each problem needs to be escalated
Skills (S)	
	Writing Skills
	The user/ individual on the job needs to know and understand how to:
	SA1. Construct simple sentences and express ideas clearly through written
	communication
A. Core Skills/	SA2. Fill up appropriate technical forms, process charts, activity logs in required
Generic Skills	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









## To Carry Out Problem Identification And Escalation & Entrepreseurship

Readi	nσ	Skil	Iς
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The user/individual on the job needs to know and understand how to:

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

### **Oral Communication (Listening and Speaking skills)**

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

- SA8. Express statements, opinions or information clearly so that others can hear and understand
- SA9. Respond appropriately to any queries
- SA10. Communicate with supervisor
- SA11. Communicate with upstream and downstream teams
- SA12. Work in a team and other behavioral skills required to support the small group activities (Quality Circle, Cross Functional Team, Suggestion Scheme)

### Integrity

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

- SA13. Practice honesty with respect to company property and time
- SA14. Communicate with people in a form and manner and using language that is open and respectful
- SA15. Resolve any difficulties in relationships with colleagues , or get help from an appropriate person, in a way that preserves goodwill and trust

### Motivation

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

- SA16. Take responsibility for completing one's own work assignment
- SA17. Take initiative to enhance/learn skills in ones's area of work
- SA18. The capacity to learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning.
- SA19. Is open to new ways of doing things
- SA20. The capacity to envisage and articulate personal goals; to develop strategies and take action to achieve them.

### Reliability

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

- SA21. Avoid absenteeism
- SA22. Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations
- SA23. Work in disciplined factory environment
- SA24. Be punctual

### **Decision Making**









## To Carry Out Problem Identification And Escalation & Entrepreseurship

**B.Professional Skills** 

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

Handle equipment/apparatus

Handle rubber compound

Handle chemicals and laboratory reagents

Handle rubber products

Complex sample components

Perform computer operations

### **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**

Application of basic sciences (chemistry), mathematics

Application of statistics

Use of computer/ application software



### **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

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

Suggest improvements(if any) in process 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



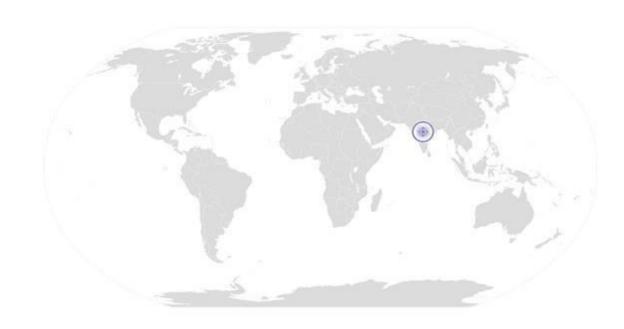






## **NOS Version Control**

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	Lab Chemist	Next review date	29/12/17	



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### **CRITERIA FOR ASSESSMENT OF TRAINEES**

Job Role: Lab Chemist- Batch Release testing

**Qualification Pack Code:** RSC/ Q 0313

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			Ma	rks Allo	cation
NOS	Elements	Performance Criteria	Tot al	Theo ry	Practic al
		PC1. Determine the minimum amount of compound required for testing to achieve the desired level of confidence in the tests.	2	0	2
		PC2. Sample the compound as per SOP	2	2	0
		PC3. Sampling should be as per process flow sheet with control points	2	2	0
	Sample collection	PC4. Ensure that sample is suitable for test/analysis	2	2	0
1. RSC/N		PC5. Mould compound to appropriate standard test specimens (button/dumbbell/slab)for testing	2	0	2
1301 To Test Rubber		PC6. Identify the defect/problem in inappropriate sample	4	2	2
Compound		PC7. Follow the procedure laid down by the company while labeling/numbering samples	2	2	0
	Sample integrity	PC8. Follow procedures to maintain conditioning of the sample (eg. Time, temperature, humidity, mechanical stress etc) as per SOP	4	1	3
		PC9. Follow SOP to store sample for future/further testing	4	1	3
	Equipment readiness	PC10. Identify the most appropriate equipment such as Rheometer, Mooney Viscometer, Densometer, Dispergrader, Tensile Tester,	4	2	2

	Hardness Tester, Rebound Resilience Tester and accessories for testing			
	PC11. Set up appropriate equipment or apparatus for testing correctly	6	2	4
	PC12. Calibrate the testing equipment periodically as per SOP.	6	2	4
	PC13. Identify defective equipment/apparatus and steps to be taken	4	2	2
	PC14. Verify the equipment accuracy by running the reference	2	0	2
Sample testing	PC15. Identify appropriate tests like Specific Gravity, Dispersion, Rheometry, Mooney Viscosity, Mooney Scorch, Hardness, Tensile, Elongation at break, Modulus, Tear strength, Rebound Resilience, as per SOP	8	4	4
	PC16. Carry out tests in accordance with SOP and desired individual test frequency	10	2	8
	PC17. Keep tools and accessories like calculator ready before starting the analysis in accordance to the standard (IS/ISO or other international standards)	2	0	2
Data analysis	PC18. Ensure that the accuracy and periodicity of the data captured in records is as per SOP	2	2	0
	PC19. Identify appropriate technique in evaluating result	2	0	2
	PC20. Interpret the results correctly using the identified technique(s)	4	2	2
Recording	PC21. Record and maintain data as per company standards	2	0	2
Recording	PC22. Ensure that reports/records are accurate and clear	2	0	2
Deposting	PC23. Release or Hold the raw material as per finding for further processing.	2	2	0
Reporting	PC24. Take up the results of the findings with supplier/QC in-charge/appropriate authority.	2	2	0
	PC25. Housekeeping and safety in the lab testing area	2	2	0
	PC26. Handle the equipment properly	4	0	4
Health and Safety	PC27. Ensure samples and chemicals are carefully handled to avoid accidental spillage of chemicals.	2	0	2
Janety	PC28. Conduct the experiments wearing the appropriate attire such as safety goggles, gloves, closed toe shoes, long pants, tied hair	2	0	2
	PC29. Use safety equipment such as fire extinguishers, fire blankets, and eye-wash	2	2	0

		stations.			
		PC30. Escalate matters in case of any accidents, spills etc.	1	1	0
		PC31. Comply with health, safety, environment guidelines, regulations etc in accordance with international/national standards or organizational standards	1	1	0
	Nasta vial	PC32. Carry out disposal of waste and left over tested material safely as per SOP	2	0	2
	Material disposal	PC33. Dispose all materials used in the experiment safely as per Health and Safety management system of the company	2	0	2
			100	40	60
		PC1. Inspect the area while taking into account various surfaces	3	3	0
		PC2. Identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain	3	3	0
		PC3. Ensure that the cleaning equipment is in proper working condition	3	3	0
	Pre housekeepin	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
	g activities	PC5. Plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces	3	3	0
2. RSC / N		PC6. Inform the affected people about the cleaning activity	2	2	0
5001 To Carry Out		PC7. Display the appropriate signage for the work being conducted	3	3	0
Housekeepin g		PC8. Ensure that there is adequate ventilation for the work being carried out	3	3	0
-		PC9. Wear the personal protective equipment required for the cleaning method and materials being used	3	3	0
		PC10. Use the correct cleaning method for the work area, type of soiling and surface	3	3	0
		PC11. Carry out cleaning activity without disturbing others	3	3	0
	Operations	PC12. Deal with accidental damage, if any, caused while carrying out the work	3	3	0
		PC13. Report to the appropriate person any difficulties in carrying out your work	3	3	0
		PC14. Identify and report to the appropriate person any additional cleaning required that is outside one's responsibility or skill	3	3	0

		PC15. Ensure that there is no oily substance on the floor to avoid slippage	9	3	6
		PC16. Ensure that no scrap material is lying around	9	3	6
		PC17. Maintain and store housekeeping equipment and supplies	3	3	0
		PC18. Follow workplace procedures to deal with any accidental damage caused during the cleaning process	3	3	0
	Post housekeepin g	PC19. Ensure that, on completion of the work, the area is left clean and dry and meets requirements	8	2	6
	activities	PC20. Return the equipment, materials and personal protective equipment that were used to the right places making sure they are clean, safe and securely stored	3	3	0
		PC21. Dispose the waste garnered from the activity in an appropriate manner	9	3	6
		PC22. Dispose of used and un-used solutions according to manufacturer's instructions, and clean the equipment thoroughly	9	3	6
	General	PC23. Maintain schedules and records for housekeeping duty	3	3	0
		PC24. Replenish any necessary supplies or consumables	3	3	0
			100	70	30
	Reporting	PC1. Report data/problems/incidents as applicable in a timely manner	12	8	4
		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. RSC / N 5002 To Carry Out Reporting And Documentati on	Recording and Documentati on	PC4. Identify documentation to be completed relating to one's role	10	6	4
		PC5. Record details accurately an appropriate format	16	6	10
		PC6. Complete all documentation within stipulated time according to company procedure	14	4	10
		PC7. Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly	6	4	2
		PC8. Make sure documents are available to all appropriate authorities to inspect	6	4	2
	Information	PC9. Respond to requests for information in an	6	6	0

	Security	appropriate manner whilst following organizational procedures			
		PC10. Inform the appropriate authority of requests for information received	6	6	0
		·	100	60	40
4. RSC / N 5003 To Carry Out	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
	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
Quality		PC8. Review effectiveness of corrective action	5	3	2
Checks	Reporting	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
		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
	Problem Identificatio n	PC1. Identify defects/indicators of problems	7	4	3
5. RSC / N 5004 To Carry Out Problem Identificatio n And Escalation		PC2. Identify any wrong practices that may lead to problems	6	3	3
		PC3. Identify practices that may impact the final product quality	6	3	3
		PC4. Identify if the problem has occurred before	5	3	2
		PC5. Identify other operations that might be impacted by the problem	6	4	2
		PC6. Ensure that no delays are caused as a result of failure to escalate problems	5	3	2
	Necessary	PC7. Take appropriate materials and sample,	8	5	3

Action	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	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
	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
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