





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

Contact Us:

PHD House (4th Floor), Opp. Asian Games Village, Siri Fort Institutional Area, New Delhi -110016

E-mail: info@rsdcindia.in





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Introduction

Qualifications Pack- Rubber Nursery Supervisor

SECTOR: RUBBER INDUSTRY

SUB-SECTOR: Rubber Plantation (Natural Rubber Production)

OCCUPATION: Rubber Nursery Management

REFERENCE ID: RSC/ Q 6002

ALIGNED TO: NCO-2004/NIL

Brief Job Description: Rubber Nursery Supervisor supervises and give technical advise on all the nursery activities to all workers. He is responsible for the timely completion of all seasonal activities, smooth running of the nursery and production of quality planting materials as envisaged by the organization.

Personal Attributes: This job requires the individual to work earnestly for the production of quality planting materials and to work hard to achieve the target fixed for the year. He should have capacity for team building and motivate workers in order to complete the activities in a time bound manner. He should have a in depth knowledge in nursery practices and make the task easier by expertise.







Qualifications Pack For Rubber Nursery Supervisor

Qualifications Pack Code	RSC/ Q 6002		
Job Role	Rubber Nursery Supervisor		
Credits(NSQF)	TBD	Version number	1.0
Sector	Rubber Industry	Drafted on	07/11/13
Sub-sector	Natural Rubber (NR) Production	Last reviewed on	27/03/15
Occupation	Rubber Nursery Management	Next review date	27/03/16
NSQC Clearnace on	20/07/2015		

Job Role	Rubber Nursery Supervisor	
Role Description	Nursery Supervisor supervises and extends all amenities and technical advices on nursery activities. He is responsible for the timely completion of all seasonal activities, smooth running of the nursery and production of quality planting materials as envisaged by the organization	
NSQF level	5	
Minimum Educational	Plus two/VHSC with biological science	
Qualifications*	, ,	
Maximum Educational	Basic knowledge of computer operations (MS Office, Excel,	
Qualifications*	PowerPoint etc.)	
Training (Suggested but not mandatory)	Training in all aspects of nursery management	
Minimum Job Entry Age	18 years	
Experience	A Plus two/VHSC with biological science pass with minimum 6	
	months experience in nursery work/supervising is desirable	
Applicable National Occupational Standards (NOS)	Compulsory: 1. RSC/N 6003 (Rubber nursery development practices) 2. RSC/N 6004 (Production of Advanced planting materials) 3. RSC/N 6005 (Quality assurance and preparation of planting materials for sale) 4. RSC/N 6006 (Data recording, compilation, documentation and reporting) 5. RSC/N5011 (Problem identification and solving) Optional: NA	
Performance Criteria	As described in the relevant OS units	







Qualifications Pack For Rubber Nursery Supervisor

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 specific designated responsibilities.
Core Skills or Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.

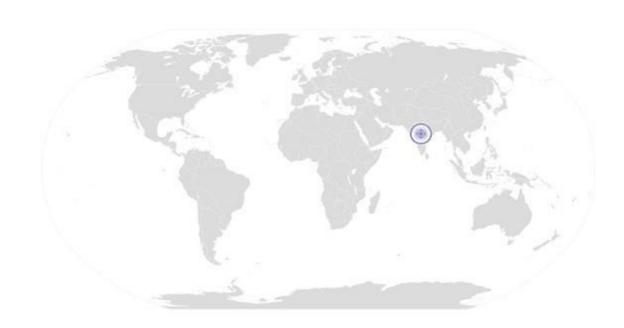








National Occupational Standard



Overview:

This unit is about Rubber Nursery development Practices



NOS National Occupational Standards





Production of advanced planting materials

Unit Code	RSC/N 6003		
Unit Title (Task)	Rubber nursery development practices		
Description	This unit is about Nursery development Practices		
Scope	 This unit/task covers the following: Proficiency in supervising work in connection with- Selection of good quality seeds, sorting and temporary storage Germination of seeds- preparation of land germination beds, sowing and after care Planting- preparation of land and nursery bed, picking of germinated seeds, transportation, planting and after care Seedling nursery maintenance and disease management Development of multi clone bud wood nursery & maintenance Bud grafting 		

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

Element	Performance Criteria
Selection of good	To be competent, the individual on the job must be able to supervise-
quality seeds	
	PC1. Sorting of quality of the seeds
	PC2. Conduct the viability of the seed
	PC3. Choose apt method for temporary storage of seeds
Germination of seeds	PC4. Carry out timely sowing of the seeds
	PC5. Prepare the land and make germination beds as per specification
	PC6. Placing of seeds in the germination medium and cover with coir
	mat/gunny bags
	PC7. Watering the germination beds to maintain optimum moisture
Planting	PC5. Cast proper land preparation technique and design seedling nursery
	Beds as per specification
	PC6. Select the best quality germinated seeds and transport without damage
	PC7. Carry out planting of germinated seeds with suitable spacing
	PC7. Ensure planting of germinated seeds at the right stage
	PC8. Irrigate, if required









RSC/N 6003	Production of advanced planting materials		
Seedling nursery	PC9. Carry out timely weeding (minimum three rounds- before fertilizer		
maintenance and	applications and bud grafting)		
disease management	PC10. Carry out fertilizer application (basal dressing with compost and rock		
	phosphate; 2500 kg of 10:10:4:1.5 NPKMg per effective hectare (1 st		
	dose) and 550 kg urea per effective hectare (2 nd dose).		
	PC11. Carry out mulching irrigation etc		
	PC12. Identify diseases and prescribe suitable chemicals and undertake		
	Plant protection measures		
	PC13. Thinning out of weaklings/undesired seedlings		
	PC 14. Carry out seedling census		
Development of	PC15. Identify clones for raising multi clone bud wood nursery		
multi-clone Bud	PC16. Plant mother plants with spacing as per specification		
wood nursery &	PC17. Clone identification and labelling		
maintenance	PC18. Weeding		
	PC19. Application of fertilizer ((basal dressing with 150 kg powdered rock		
	phosphate per hectare; NPKMg 10:10:4:1.5 mixture at the rate of 250		
	g/plant in two split doses and 10:10:4:1.5 mixture at the rate of 125		
	g/plant two to three months after cutting back)		
	PC20. Identify diseases and prescribe suitable chemicals and undertake		
	Plant protection measures		
	PC21. Carry out Pruning		
	PC22. Collection of bud wood for budding/sale (for young bud grafting/Green		
	Bud grafting/brown bud grafting)		
	PC23. Cut backing of discarded/unutilised bud wood		
Bud grafting	PC24. Ensure timely bud grafting with desired clone		
	PC25. Ensure utilization of good quality scion for bud grafting		
	PC26. Assess budding success and labelling		
	PC27. Carry out subsequent round of bud grafting, if desired		
Knowledge and Unders	standing (K)		
A. Organizational	The user/individual on the job needs to know and understand:		
Context			
(Knowledge of the	KA1. Importance of full capacity utilization of inputs		
	KA2. Importance of effective utilization of man power		
company /	KA3. Relevance of minimizing cost of production		
organization and	KA4. Importance of production of quality planting materials		
its processes)	KA5. Importance of maintaining harmony in the work place		









RSC/N 6003	Production of advanced planting materials
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. Sorting of quality rubber seeds KB2. Viability test for assessing the viability of seeds KB3. Methods for temporary storage of seeds KB4. Preparation of land, germination beds, nursery beds KB5. Right stage of germinated seeds for planting KB6. Planting techniques and nursery and after care KB7. Disease management KB8. Development and maintenance of bud wood nursery KB9. Scientific aspects of bud grafting KB10. Methodology for developing poly bag and root trainer plants and maintenance
Skills (S) (Optional)	
A. Core Skills/ Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. Express ideas clearly through written document SA2. Document achievements, cost —benefit study, reports, success stories, repots to the manager etc SA3. Prepare proposals, feed back to higher authorities SA4. Recording of data Reading Skills The user/individual on the job needs to know and understand how to: SA5. Read and understand the contents published in scientific journals, newspaper and other publications SA6. Read and understand scientific terminologies, codes, abbreviations etc SA7. Read and understand images, graphs, charts, diagrams etc Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA8. The individual should be a good communicator. SA9. Express statements, opinions or information clearly so that the receiver can hear and understand SA10. Respond appropriately to queries SA11. Communicate effectively to Manager, office staff and workers
	Decision Making









Production of advanced planting materials The user/individual on the job needs to know and understand how to

B. Professional Skills SB1 M

- SB1. Make appropriate decision according to the changing agro climatic conditions
- SB2. Arrive proper decision according to the socio-economic situation

Planning and Organizing

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

- SB3. The apt season for seed collection, sowing, planting etc
- SB4. Schedule of weeding, fertilizer application, irrigation, mulching etc
- SB5. Suitable season for bud wood raising, bud grafting etc
- SB6. Effective planning of land utilization
- SB7. All the nursery practices are time bound, hence systematic planning and organizing of activities is important

Customer Centricity

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

- SB8. Clarify doubts and to help the customer to choose suitable planting Materials
- SB9. Brief the field planting techniques and after care

Problem Solving

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

- SB10. Solve problems related to nursery management
- SB11. Solve labour problems
- SB12. Solve problems related to equipments and supply of inputs
- SB13. Solve problems among colleagues
- SB14. Diagnose problems and nip in the bud stage itself

Analytical Thinking

The user/individual on the job needs to know and understand how to: SB15. Suggest improvement over the recommended package of practices

Critical Thinking

The user/individual on the job needs to know and understand how to: SB16. Take appropriate action/seek expert opinion to over come critical Situations









NOS Version Control

NOS Code	RSC/N 6003		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber	Drafted on	07/11/13
Industry Sub-sector	Natural Rubber (NR) Production	Last reviewed on	27/03/15
Occupation	Rubber Nursery Management	Next review date	27/03/16











National Occupational Standard



Overview:

This unit is about Production of advanced planting materials



NOS National Occupational Standard





Unit Code	RSC/N 6004
Unit Title (Task)	Production of Advanced planting materials
Description	This unit is about Production of advanced planting materials
Scope	This unit/task covers the following: Proficiency in supervision/carry out— Methodology for development Poly bag plants – development and maintenance Root trainer plants- development and maintenance

Performance Criteria	(PC) w.r.t. the sco	рe
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Element	Performance Criteria
Methodology for Development	To be competent, the individual on the job must be able to know, understand and to PC1. Seed at stake method- placing germinated seeds in the poly bags/Root Trainer cups for raising seedlings for bud grafting PC2. Select good quality seeds PC3. Germination of seeds PC4. Plant in the poly bags/root trainer cups & after care PC5. Bud grafting at the right stage with good quality scion PC6. Cut backing of stock for further development PC7. Direct planting of Bud grafted stump method- planting bud grafted Stumps in the poly bag/ root trainer cups.
Poly bag plants- development & maintenance	PC8. Selection of poly bags of appropriate size and specifications PC9. Preparation of potting mixture PC10. Planting of germinated seeds/bud grafted stumps PC11. Watering for maintaining optimum soil moisture PC12. Provide shade to regulate sun light PC13. Fertilizer application and disease management
Root trainer plants, development & maintenance	PC14. Selection of root trainer cups of appropriate size and specifications PC15. Seasoning of coir pith (soaking in water to remove resins, tannin etc PC16. Preparation of potting mixture (chemical treatment) PC17. Potting mixture filling PC18. Plant germinated seeds/ bud grafted stumps and after care PC19. Watering for maintaining optimum soil moisture PC20. Provide shade to regulate sun light PC21. Fertilizer application and disease management PC22. Root air pruning and Hardening









Knowledge and Unders	standing (K)
B. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. Importance of quality planting materials for life long sustainable yield from rubber plantation KA2. Importance of quality of the seeds for development of quality planting materials KA3. Relevance of bud wood and clone used for bud grafting KA4. Importance of stock and scion quality for producing quality planting materials KA5. Importance of advanced planting materials in rubber plantation development
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. Sorting of quality rubber seeds KB2. Preparation of land, germination beds, nursery beds KB3. Right stage of germinated seeds and selection for planting KB4. Planting techniques and nursery and after care KB5. The technique of quality bud wood production KB6. Timely Bud grafting with quality scion KB7. Raising of poly bag and root trainer plants with quality bud grafted stumps and proper maintenance
Skills (S) (Optional)	
C. Core Skills/ Generic Skills	Writing Skills The user/ individual on the job needs to know and understand how to: SA1. Express ideas clearly through written document SA2. Document achievements, cost –benefit study, reports, success stories, etc SA3. Prepare proposals, feed back to higher authorities Reading Skills The user/individual on the job needs to know and understand how to: SA4. Read and understand the contents published in scientific journals, newspaper and other publications
	SA5. Read and understand scientific terminologies, codes, abbreviations etc SA6. Read and understand images, graphs, charts, diagrams etc Oral Communication (Listening and Speaking skills)









RSC/N 6004	Production of advanced planting materials
	The user/individual on the job needs to know and understand how to:
	SA6. The individual should be a good communicator.
	SA7. Express statements, opinions or information clearly so that the receiver
	can hear and understand
	SA8. Respond appropriately to queries
	SA9. Communicate effectively to Manager, office staff and workers
D. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to
	SB1. Make appropriate decision according to the changing agro climatic
	list.
	conditions
	SB2. Arrive proper decision according to the socio-economic situations
	The second secon
	Planning and Organizing
	The user/individual on the job needs to know and understand:
	SB3. The apt season for seed collection, sowing, planting etc
	SB4. Schedule of weeding, fertilizer application, irrigation, mulching etc
	SB5. Suitable season for bud wood raising, bud grafting etc
	SB6. Most suitable season for raising poly bag and root trainer plants
	SB7. Effective planning of land utilization
	SB8. All the nursery practices are time bound, hence systematic planning and
	organizing of activities is important
	Customer Centricity
	The user/individual on the job needs to know and understand how to:
	SB9. Clarify doubts and to help the customer to choose suitable planting
	Materials
	SB10. Brief the field planting techniques and after care
	Problem Solving
	The user/individual on the job needs to know and understand how to
	adding marriadar on the job needs to know and anderstand now to
	SB11 Solve problems related to nursery management
	SB12 Solve labour problems
	·
	SB13 Solve problems related to equipments and supply of inputs
	SB14 Solve conflict among colleagues
	SB15 Diagnose problems and nip in the bud stage itself

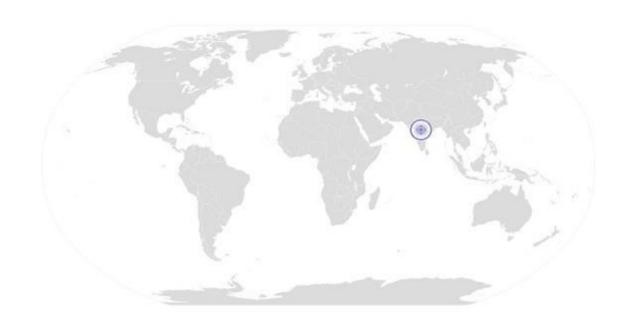








KSC/N 6004	Production of advanced planting materials
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB16 Suggest improvement over the recommended package of practices
	Critical Thinking
	The user/individual on the job needs to know and understand how to:
	SB17 Take appropriate action/seek expert opinion to over come critical Situations











NOS Version Control

NOS Code	RSC/N 6004		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber	Drafted on	07/11/13
Industry Sub-sector	Natural Rubber (NR) Production	Last reviewed on	27/03/15
Occupation	Rubber Nursery Management	Next review date	27/03/16











National Occupational Standard



Overview:

This unit is about Quality control/checks and sale of planting materials



NOS





Unit Code	Quality assurance and preparation of planting materials for sale This unit is about Quality control/checks and sale of planting materials		
Unit Title (Task)			
Description			
Scope	This unit/task covers the following: Proficiency in - Selection of good quality seeds Planting sorted germinated seedlings and proper upkeep Assure bud wood quality Timely bud grafting and ensure utilization of vigorous scion Selective utilization of bud grafted stumps for raising advanced planting materials Quality assurance and preparation for sale		
Performance Criteria(PC) w	v.r.t. the scope		
Element	Performance Criteria		
Selection of good quality seeds	To be competent, the individual on the job must be able to – PC1. Ensure the quality of the seeds		

Element	Performance Criteria
Selection of good quality seeds	To be competent, the individual on the job must be able to – PC1. Ensure the quality of the seeds PC2. Manage timely sowing of the seeds
Planting sorted germinated seedlings and proper upkeep	PC3. Ensure planting of seeds germinated within two weeks PC4. Ensure planting of germinated seeds at the right stage PC5. Implement timely weeding, fertilizer application, mulching irrigation etc PC6. Identify diseases and prescribe chemicals for disease management
Assure bud wood Quality	PC7. Manage development and proper maintenance PC8. Timely pruning/cut back
Timely bud grafting and ensure utilization of vigorous scion	PC9. Manage timely bud grafting with desired clone PC10. Ensure utilization of good quality scion for bud grafting
Utilization of selected bud grafted stumps for raising advanced planting materials	PC11. Select quality bud grafted stumps for raising Poly bag plants PC12. Select quality bud grafted stumps for raising Root trainer plants PC13. Good maintenance of nursery









RSC/N 6005 Quality assurance and preparation of planting materials for sale

Quality assurance and preparation of planting materials for sale	PC14. Assess quality of planting materials PC15. Prepare planting materials for transportation PC16. Proper packing and despatch
Knowledge and Understand	ling (K)
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1.Importance of quality planting materials for life long sustainable yield from rubber plantation KA2.Importance of quality of the seeds for development of quality planting materials KA3.Relevance of bud wood and clone used for bud grafting KA4.Importance of stock and scion quality for producing quality planting materials KA5.Importance of advanced planting materials in rubber plantation development
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. Sorting of quality rubber seeds KB2. Preparation of land, germination beds, nursery beds KB3. Right stage of germinated seeds and selection for planting KB4. Planting techniques and nursery and after care KB5. The technique of quality bud wood production KB6. Timely Bud grafting with quality scion KB7. Raising of poly bag and root trainer plants with quality bud grafted stumps and proper maintenance
Skills (S) (Optional) A. Core Skills/ Generic Skills	Writing Skills The user/ individual on the job needs to know and understand how to: SA1. Express ideas clearly through written document SA2. Document achievements, cost –benefit study, reports, success stories, etc SA3. Prepare proposals, feed back to higher authorities SA4. Recording of data, compilation and reporting









RSC/N 6005 Quality	assurance and preparation of planting materials for sale
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA5. Read and understand the contents published in scientific journals, newspaper and other publications SA6. Read and understand scientific terminologies, codes, abbreviations etc SA7. Read and understand images, graphs, charts, diagrams etc
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA8. The individual should be a good communicator
	SA9 . Express statements, opinions or information clearly so that the receiver can hear and understand
	SA10. Respond appropriately to queries
	SA11. Communicate effectively to supervisor, office staff and workers
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to SB1. Make appropriate decision according to the changing agro climatic conditions SB2. Arrive proper decision according to the socio-economic situations
	Planning and Organizing
	The user/individual on the job needs to know and understand: SB3. The apt season for seed collection, sowing, planting etc SB4. Schedule of weeding, fertilizer application, irrigation, mulching etc SB5. Suitable season for bud wood raising, bud grafting etc SB6. Most suitable season for raising poly bag and root trainer plants
	SB7. Effective planning of land utilization SB8. All the nursery practices are time bound, hence systematic planning and organizing of activities is important Customer Centricity
	Customer Centricity









RSC/N 6005 Quality assurance and preparation of planting materials for sale

The user/individual on the job needs to know and understand how to: SB9. Clarify doubts and to help the customer to choose suitable planting Materials SB10. Brief the field planting techniques and after care **Problem Solving** The user/individual on the job needs to know and understand how to SB11. Solve problems related to nursery management SB12. Solve labour problems SB13. Solve problems related to equipments and supply of inputs SB14. Solve conflict among colleagues SB15. Diagnose problems and nip in the bud stage itself **Analytical Thinking** The user/individual on the job needs to know and understand how to: SB16. Suggest improvement over the recommended package of practices Critical Thinking The user/individual on the job needs to know and understand how to: SB17. Take appropriate action/seek expert opinion to over come critical Situations









Quality assurance and preparation of planting materials for sale

NOS Version Control

NOS Code	RSC/N 6005		
Credits(NSQF)	TBD	Version number	1.0
Industry	Rubber	Drafted on	07/11/13
Industry Sub-sector	Natural Rubber (NR) Production	Last reviewed on	27/03/15
Occupation	Rubber Nursery Management	Next review date	27/03/16



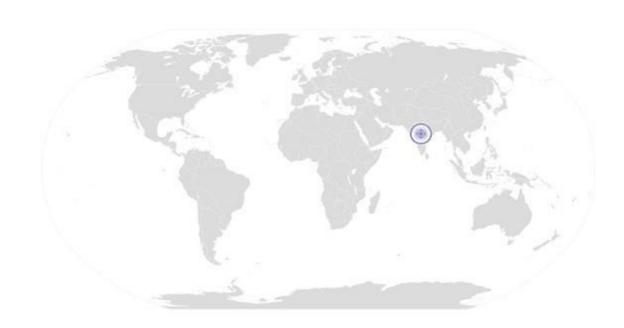








National Occupational Standard



Overview:

This unit is about Documentation & Office Management



NOS





Data recording, compilation, documentation and reporting

Unit Code	Data recording, compilation, documentation and reporting		
Unit Title (Task)			
Description	This unit is about Documentation & Office Management		
Scope Performance Criteria(PC) w	This unit/task covers the following: Data base of the nursery Filed data collection and recording Data compilation Data analysis Documentation and reporting		
Element	Performance Criteria		
Data base of the nursery	To be competent, the individual on the job must be able to know and record - PC1. Data on land and infrastructure PC2. Extent of land under utilization PC3. Production potential of the nursery PC4. Actual output and deficit if any PC5. Data on bud wood nursery		

Element	Performance Criteria
Data base of the nursery	To be competent, the individual on the job must be able to know and record - PC1. Data on land and infrastructure PC2. Extent of land under utilization PC3. Production potential of the nursery PC4. Actual output and deficit if any PC5. Data on bud wood nursery PC6. Production, sale and turn over
Field data collection and recording	 PC7. Data on seed purchase (quantity, source, date of purchase, sowing, planting etc), viability, germination percentage and utilization PC8. Data on field planting (date, no of plants, vacancy supply, No of beds with code No, Bed wise planting points etc) PC9. Data on weeding, irrigation schedule, fertilizer application, mulching practice etc in seedling nursery and bud wood nursery, poly bag and root trainer plant nursery PC10. Periodical seedling census data PC11. Data on disease management (quantity of chemical used, type/name, type of disease, rounds of application, dates of application etc) PC12. Data on bud grafting (number of plants bud grafted- date wise, quantity of bud wood used, quantity of budding materials used, budding success and percentage etc) PC13. Data on poly bag and root trainer plants (number of plants raised, date of planting, success etc PC14. Data on sale (date wise)- no of plants sold, details of the customer with Contact number, clone, type of planting materials, rejections etc.









National Occupational Standards	GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT Tran:	sforming the skil
a recording, compilation, documentation and rep	ortin _o & ENTREPRENEURSHIP	
PC15. Item wise data compilation for summary PC16. For periodical evaluation PC17. For planning and organizing		
PC18. For triangulation of data PC19. For inferring		
PC21. Enable the Manager to evaluate progress mission/target or modifying the goal	and action for achieving t	the
ing (K)		
KA1. Efficient management of activities KA2. Planning and organizing activities through KA3. Analyzing shortfall/achievement for further	data analysis er improvement	
of: KB1. Data collection KB2. Data recording KB3. Data analysis KB4. Documentation/report writing KB5. Mathematical/statistical theories and app	olication	ologies
SA1. Express ideas clearly through written do SA2. Prepare proposals, feed back to higher a SA3. Mathematical Tabulation	cument	
	a recording, compilation, documentation and reper PC15. Item wise data compilation for summary PC16. For periodical evaluation PC17. For planning and organizing PC18. For triangulation of data PC19. For inferring PC20. Reporting to Nursery manage for feed bath PC21. Enable the Manager to evaluate progress mission/target or modifying the goal PC22. Documentation for future reference and PC22. Documentation for future reference and RA1. Efficient management of activities KA2. Planning and organizing activities through KA3. Analyzing shortfall/achievement for further KA4. Documentation for self awareness and puture to ser/individual on the job needs to know and of: KB1. Data collection KB2. Data recording KB3. Data analysis KB4. Documentation/report writing KB5. Mathematical/statistical theories and app KB6. Computer application- data processing, resulting Skills The user/ individual on the job needs to know and SA1. Express ideas clearly through written documentation SA2. Prepare proposals, feed back to higher a SA3. Mathematical Tabulation	PC15. Item wise data compilation for summary PC16. For periodical evaluation PC17. For planning and organizing PC18. For triangulation of data PC19. For inferring PC20. Reporting to Nursery manage for feed back PC21. Enable the Manager to evaluate progress and action for achieving mission/target or modifying the goal PC22. Documentation for future reference and publication In the user/individual on the job needs to know and understand: KA1. Efficient management of activities KA2. Planning and organizing activities through data analysis KA3. Analyzing shortfall/achievement for further improvement KA4. Documentation for self awareness and publication The user/individual on the job needs to know and understand the methodo of: KB1. Data collection KB2. Data recording KB3. Data analysis KB4. Documentation/report writing KB5. Mathematical/statistical theories and application KB6. Computer application- data processing, report typing etc Writing Skills The user/ individual on the job needs to know and understand how to: SA1. Express ideas clearly through written document SA2. Prepare proposals, feed back to higher authorities









Data recording, compilation, documentation and reporting

Reading Skills The user/individual on the job needs to know and understand how to: SA5. Read and understand the contents published in scientific journals manuals, newspaper and other publications					
SA5. Read and understand the contents published in scientific journals					
·					
manuals, newspaper and other publications	ŝ,				
SA6. Read and understand images, graphs, charts, diagrams etc					
SA7. Read and understand articles and interpret					
Oral Communication (Listening and Speaking skills)	Oral Communication (Listening and Speaking skills)				
The user/individual on the job needs to know and understand how to:					
SA8. The individual should be a good communicator.					
SA6. Express statements, opinions or information clearly so that the recan hear and understand	SA6. Express statements, opinions or information clearly so that the receiver can hear and understand				
SA7. Respond appropriately to queries	SA7. Respond appropriately to queries				
SA8. Communicate effectively to supervisor, office staff and workers	SA8. Communicate effectively to supervisor, office staff and workers				
B. Professional Skills Decision Making					
The user/individual on the job needs to know and understand how to: SB1. Arrive proper decision according to various situations					
	Planning and Opposition				
Planning and Organizing	Planning and Organizing				
The user/individual on the job needs to know and understand how to:	The user/individual on the job needs to know and understand how to:				
SB2. Plan the Seasonal activates in priority basis					
SB3. Fix the task and allotment	SB3. Fix the task and allotment				
SB4. Assign tasks to suitable persons					
SB5. Motivate them for better out put and time bound completion of t	SB5. Motivate them for better out put and time bound completion of tasks				
SB6. Monitor the progress					
SB7. All the nursery practices are time bound, hence systematic planni	ing and				
organizing of activities is important					
Problem Solving					

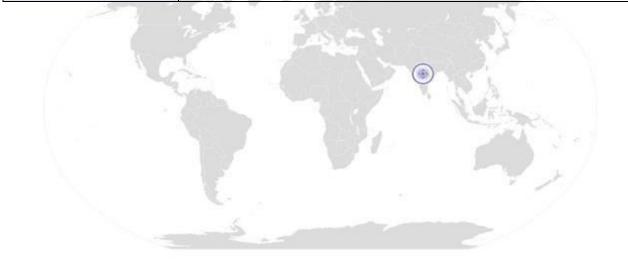








RSC/N 6006	Data recording, compilation, documentation and reporting
	The user/individual on the job needs to know and understand how to
	SB8. Solve problems related to nursery management
	SB9. Solve labour problems
	SB10. Solve problems related to equipments and supply of inputs
	SB11. Solve problems among colleagues
	SB12. Diagnose problems and nip in the bud stage itself
	Analytical Thinking
	The user/individual on the job needs to know and understand how to:
	SB13. Suggest impr
	SB14. ovement over the recommended package of practices
	Critical Thinking
	The user/individual on the job needs to know and understand how to:
	SB15. Take appropriate action/seek expert opinion to over come critical
	Situations











Data recording, compilation, documentation and reporting

NOS Version Control

NOS Code	RSC/N 6006				
Credits(NSQF)	TBD	Version number	1.0		
Industry	Rubber	Drafted on	07/11/13		
Industry Sub-sector	Natural Rubber Production	Last reviewed on	27/03/15		
Occupation	Rubber Nursery Management	Next review date	27/03/16		











Problem identification and reporting for solving

National Occupational Standard



Overview:

This unit is about Problem identification and reporting for solving









Problem identification and reporting for solving

NSC/ NSCII	r robicin lacinineation and reporting for solving				
Unit Code	RSC/ N5011				
Unit Title (Task)	Problem identification and solving				
Description	This unit is about Problem identification and reporting for solving				
Scope	This unit/task covers the following: Proficiency in identifying problems across Nursery practices Equipments Quality of planting materials Personal management				

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

Element	Performance Criteria
Problem Identification	To be competent, the individual on the job must be able to know and understand PC1. Recognize and define the problem PC2. Identify the wrong practices that may lead to problems PC3. Refer previous experience if any PC4. Evaluate the possible impacts if the problems remain unsolved
Problem Solving	Try to- PC5. Nip it in the bud stage itself PC6. Find out possible solutions PC7. Evaluate the alternatives PC8. Select the best alternative for solution PC9. Plan for implementation PC10. Implementation according to the existing rules and regulations PC11. Evaluate the results and monitor future problems
Reporting to higher authority	PC12. If the problem is too complex to rectify within the capacity of the job role, report to the higher authority for expert management

Knowledge and Understanding (K)









RSC/ N5011 Problem identification and reporting for solving

RSC/ N5011	Problem identification and reporting for solving
A. Organizational	The user/individual on the job needs to know and understand:
Context (Knowledge of	
the company /	KA1. Problem solving and conflict management for smooth functioning of the
organization and its	Organization
processes)	KA2. Harmonious working atmosphere for achieving organizational goals
p. 0 000000,	KA3. Public reputation and credibility
	KA4. Maximum out put with quality
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	
	KB1. Problem identification skill
	KB2. In-depth knowledge in nursery management practices
	KB3. Knowledge in Labour Act and rules, welfare schemes etc
	KB4. Insurance schemes
	KB5. EPF and other service rules
	KB6. Problem solving/decision making skill
Chille (C) (Ontional)	
Skills (S) (Optional)	
A. Core Skills/	Writing Skills
Generic Skills	
	The user/ individual on the job needs to know and understand how to:
	SA1. Express ideas clearly through written document
	SA2. Prepare letters, mails and other documents for communication
	SA3. Prepare recters, mans and other documents for communication SA3. Prepare proposals, feed back to higher authorities
	SA4. Correspond with other institutions/department
	SA5. Report writing
	S. ICPOIL WITHING
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	CAC Dood and understand the contents mublished in ecleratific in unalls
	SA6. Read and understand the contents published in scientific journals,
	manuals, newspaper and other publications
	SA7. Read, understand and interpret various rules, schemes etc SA8. Read and understand images, graphs, charts, diagrams etc
	SA9. Read and understand images, graphs, charts, diagrams etc
	5.7.5. Read and understand articles and interpret
	Oral Communication (Listening and Speaking skills)









Problem identification and reporting for solving

RSC/ N5011	Problem identification and reporting for solving				
	The user/individual on the job needs to know and understand how to:				
	SA10. The individual should be a good communicator.				
	SA11. Express statements, opinions or information clearly so that the receiver				
	can hear and understand				
	SA12. Respond appropriately to queries				
	SA13. Communicate effectively to supervisor, office staff and workers				
	, , ,				
B. Professional Skills	Decision Making				
	The user/individual on the job needs to know and understand how to				
	SB1. Arrive proper decision according to various situations				
	Planning and Organizing				
	The user/individual on the job needs to know and understand how to:				
	SB2. Plan the Seasonal activates in priority basis				
	SB3. Fix the task and allotment				
	SB4. Assign tasks to suitable persons				
	SB5. Motivate them for better out put and time bound completion of tasks				
	SB6. Monitor the progress				
	SB7. All the nursery practices are time bound, hence systematic planning and				
	organizing of activities is important				
	Problem Solving				
	The user/individual on the job needs to know and understand how to				
	CDQ. Colug problems related to pursory management				
	SB8. Solve problems related to nursery management SB9. Solve labour problems				
	SB10. Solve problems related to equipments and supply of inputs				
	SB11. Solve problems among colleagues				
	SB12. Diagnose problems and nip in the bud stage itself				
	Analytical Thinking				
	The user/individual on the job needs to know and understand how to:				
	SB13. Suggest improvement over the recommended package of practices				
	Critical Thinking				
	The user/individual on the job needs to know and understand how to:				
	SB14. Take appropriate action/seek expert opinion to over come critical				
	Situations				





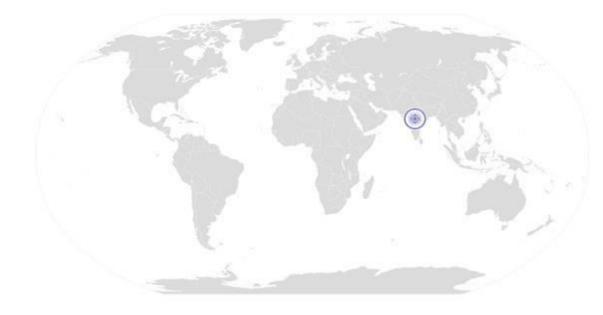




Problem identification and reporting for solving

NOS Version Control

NOS Code	RSC/N 5011				
Credits(NSQF)	TBD	Version number	1.0		
Industry	Rubber	Drafted on	07/11/13		
Industry Sub-sector	Natural Rubber Production	Last reviewed on	27/03/15		
Occupation	Rubber Nursery Management	Next review date	27/03/16		



Back to QP

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Rubber Nursery Supervisor

Qualification Pack RSC/Q 6002

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 evaulations for skill practical for every student at each examination/training center based on this criteria
- 5. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS
- 6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

			Marks Allocation		
NOS	Elements	Performance Criteria	Total	Theory	Practical
RSC/ N 6003 Rubber nursery development practices	Selection of	PC1. Sorting of quality of the seeds	4	2	2
	good quality seeds	PC2. Conduct the viability of the seed	4	2	2
	seeus	PC3. Choose apt method for temporary storage of seeds	2	2	0
	Germination of	PC4. Carry out timely sowing of the seeds	2	2	0

seeds	PC5. Prepare the land and make germination beds as per specification	8	4	4
	PC6. Placing of seeds in the germination medium and cover with coir mat/gunny bags	8	4	4
	PC7. Watering the germination beds to maintain optimum moisture	3	0	3
	PC8. Cast proper land preparation technique and design seedling nursery Beds as per specification	5	3	2
Planting	PC9. Select the best quality germinated seeds and transport without damage	3	3	0
	PC10. Carry out planting of germinated seeds with suitable spacing	8	4	4
	PC11. Ensure planting of germinated seeds at the right stage	2	2	0
	PC12. Carry out timely weeding (minimum three roundsbefore fertilizer applications and bud grafting)	2	2	0
Seedling nursery maintenance	PC13. Carry out fertilizer application (basal dressing with compost and rock phosphate; 2500 kg of 10:10:4:1.5 NPKMg per effective hectare (1st dose) and 550 kg urea per effective hectare (2nd dose).	7	4	3
and disease	PC14. Carry out mulching irrigation etc	4	2	2
management	PC15. Identify diseases and prescribe suitable chemicals and undertake Plant protection measures	6	3	3
	PC16. Thinning out of weaklings/undesired seedlings	2	2	0
	PC 17. Carry out seedling census	2	2	0
	PC18. Identify clones for raising multi clone bud wood nursery	2	0	2
Development	PC19. Plant mother plants with spacing as per specification	4	0	4
of multi-clone	PC20. Clone identification and labelling	3	0	3
Bud wood	PC21. Weeding	6	4	2
nursery & maintenance	PC22. Application of fertilizer ((basal dressing with 150 kg powdered rock phosphate per hectare; NPKMg 10:10:4:1.5 mixture at the rate of 250 g/plant in two split doses and 10:10:4:1.5 mixture at the rate of 125 g/plant two to three	4	4	0

		months after cutting back)			
		PC23. Cut backing of discarded/unutilised bud wood	2	2	0
		PC24. Ensure timely bud grafting with desired clone	2	2	0
	Bud grafting	PC25. Ensure utilization of good quality scion for bud grafting	2	2	0
		PC26. Assess budding success and labelling	2	2	0
		PC27. Carry out subsequent round of bud grafting, if desired	1	1	0
			100	60	40
		PC1. Seed at stake method- placing germinated seeds in the poly bags/Root Trainer cups for raising seedlings for bud grafting	2	0	2
		PC2. Select good quality seeds	6	2	4
	Methodology	PC3. Germination of seeds	8	4	4
	for Development	PC4. Plant in the poly bags/root trainer cups & after care	2	0	2
		PC5. Bud grafting at the right stage with good quality scion	4	4	0
		PC6. Cut backing of stock for further development	4	0	4
		PC7. Direct planting of Bud grafted stump method- planting bud grafted Stumps in the poly bag/ root trainer cups.	6	2	4
RSC/ N 6004 Production of	Poly bag	PC8. Selection of poly bags of appropriate size and specifications	10	4	6
advanced planting materials		PC9. Preparation of potting mixture	8	2	6
	plants-	PC10. Planting of germinated seeds/bud grafted stumps	10	4	6
	development & maintenance	PC11. Watering for maintaining optimum soil moisture	4	0	4
	Illalliteriance	PC12. Provide shade to regulate sun light	5	2	3
		PC13. Fertilizer application and disease management	7	4	3
	Root trainer	PC14. Selection of root trainer cups of appropriate size and specifications	2	2	0
	plants, development &	PC15. Seasoning of coir pith (soaking in water to remove resins, tannin etc)	2	2	0
	maintenance	PC16. Preparation of potting mixture (chemical treatment)	2	0	2
		PC17. Potting mixture filling	2	0	2

		PC18. Plant germinated seeds/ bud grafted stumps and after care	4	2	2
		PC19. Watering for maintaining optimum soil moisture	2	0	2
		PC20. Provide shade to regulate sun light	4	2	2
		PC21. Fertilizer application and disease management	2	2	0
		PC22. Root air pruning and Hardening	4	2	2
			100	40	60
	Selection of	PC1. Ensure the quality of the seeds	10	6	4
	good quality seeds	PC2. Manage timely sowing of the seeds	6	4	2
		PC3. Ensure planting of seeds germinated within two weeks	7	5	2
	Planting sorted	PC4. Ensure planting of germinated seeds at the right stage	7	5	2
	germinated seedlings and	PC5. Implement timely weeding, fertilizer application, mulching irrigation etc	8	6	2
	proper upkeep	PC6. Identify diseases and prescribe chemicals for disease management	10	8	2
	Assure bud	PC7. Manage development and proper maintenance	6	6	0
	wood Quality	PC8. Timely pruning/cut back	5	2	3
RSC/ N 6005 Quality assurance	Timely bud	PC9. Manage timely bud grafting with desired clone	6	6	0
and preparation of planting materials for sale	grafting and ensure utilization of vigorous scion	PC10. Ensure utilization of good quality scion for bud grafting	8	6	0
	Utilization of selected bud	PC11. Select quality bud grafted stumps for raising Poly bag plants	4	2	2
	grafted stumps for raising	PC12. Select quality bud grafted stumps for raising Root trainer plants	4	2	2
	advanced planting materials	PC13. Good maintenance of nursery	5	3	2
	Quality	PC14. Assess quality of planting materials	5	3	2
	assurance and	PC15. Prepare planting materials for transportation	5	2	3

	preparation of planting materials for sale	PC16. Proper packing and despatch	6	4	2
			102	70	30
		PC1. Data on land and infrastructure	5	2	3
		PC2. Extent of land under utilization	5	2	3
	Data base of	PC3. Production potential of the nursery	4	4	0
	the nursery	PC4. Actual output and deficit if any	4	4	0
		PC5. Data on bud wood nursery	2	2	0
		PC6. Production, sale and turn over	7	4	3
		PC7. Data on seed purchase (quantity, source, date of purchase, sowing, planting etc), viability, germination percentage and utilization	3	3	0
	Field data collection and recording	PC8. Data on field planting (date, no of plants, vacancy supply, No of beds with code No, Bed wise planting points etc)	2	2	0
RSC/ N 6006 Documentation & Office Management		PC9. Data on weeding, irrigation schedule, fertilizer application, mulching practice etc in seedling nursery and bud wood nursery, poly bag and root trainer plant nursery	8	4	4
		PC10. Periodical seedling census data	8	4	4
		PC11. Data on disease management (quantity of chemical used, type/name, type of disease, rounds of application, dates of application etc)	8	4	4
		PC12. Data on bud grafting (number of plants bud grafted-date wise, quantity of bud wood used, quantity of budding materials used, budding success and percentage etc)	7	4	3
		PC13. Data on poly bag and root trainer plants (number of plants raised, date of planting, success etc	3	3	0
		PC14. Data on sale (date wise)- no of plants sold, details of the customer with Contact number, clone, type of planting materials, rejections etc.			
	Data	PC15. Item wise data compilation for summary	10	4	6

	compilation	PC16. For periodical evaluation	8	4	4
		PC17. For planning and organizing	8	4	4
	Data analysis	PC18. For triangulation of data	2	2	0
		PC19. For inferring	2	2	0
		PC20. Reporting to Nursery manage for feed back	2	0	2
	Documentation and reporting	PC21. Enable the Manager to evaluate progress and action for achieving the mission/target or modifying the goal	1	1	0
		PC22. Documentation for future reference and publication	1	1	0
			100	60	40
RSC/ N 5011 Problem identification and reporting for solving	Problem Identification	PC1. Recognize and define the problem	13	5	8
		PC2. Identify the wrong practices that may lead to problems	14	9	5
		PC3. Refer previous experience if any	6	6	0
	Problem Solving	PC4. Evaluate the possible impacts if the problems remain unsolved	14	10	4
		PC5. Nip it in the bud stage itself	4	4	0
		PC6. Find out possible solutions	8	6	2
		PC7. Evaluate the alternatives	9	7	2
		PC8. Select the best alternative for solution	10	8	2
		PC9. Plan for implementation	8	6	2
		PC10. Implementation according to the existing rules and regulations	7	4	3
		PC11. Evaluate the results and monitor future problems	6	4	2
	Reporting to higher authority	PC12. If the problem is too complex to rectify within the capacity of the job role, report to the higher authority for expert management National Occupational	1	1	0
			100	70	30