

Revised Application Documentation: Version 4 /25 May, 2015

QUALIFICATION FILE – CONTACT DETAILS OF SUBMITTING BODY

Name and address of submitting body:

Rubber Skill Development Council

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List of documents submitted in support of the Qualifications File

1. **Qualification Pack – Building Operator : Hoses (Attached as Annexure 1)**
2. **Occupational Map (Attached as Annexure 2)**
3. **Concurrence letter from RSDC NOS Subcommittee (Attached as Annexure 4)**
4. **Composition of NOS Subcommittee (Attached as Annexure 5)**
5. **List of companies share the concurrence on Qualification Pack (Attached as Annexure 7)**
6. **Assessment Process flow (Attached as Annexure 8)**
7. **Web Link : Reports of Skill Gap study conducted by RSDC**
<http://rsdcindia.in/knowledge-base.html>

QUALIFICATION FILE SUMMARY

Qualification Title	Building Operator - Hoses - RSC/ Q 1201		
Body/bodies which will assess candidates	RSDC's affiliated assessment agency		
Body/bodies which will award the certificate for the qualification.	Rubber Skill Development Council		
Body which will accredit providers to offer the qualification.	Rubber Skill Development Council		
Occupation(s) to which the qualification gives access	Hoses Building operator under non tyre rubber Hoses manufacturing process		
Proposed level of the qualification in the NSQF.	4		
Anticipated volume of training/learning required to complete the qualification.	350 Hrs		
Entry requirements / recommendations.	Class X/ITI, Desirable – 18 Years		
Progression from the qualification.	Building Operator - Hoses level role which leads to supervisor level in Building occupation of rubber product manufacturing Process		
International comparability where known:	Not applicable		
Planned arrangements for RPL.	RPL assessment carries out as per normal RSDC assessment process.		
Formal structure of the qualification			
Title of unit or other component (include any identification code used)	Mandatory/ Optional	Estimated size (learning hours)	Level
RSC/ N 1225 (Prepare extruder and collect component)	M	50	4
RSC/ N 1226 (Prepare hoses)	M	50	4
RSC/ N 1227 (Perform post-hose preparation activities)	M	50	4
RSC/ N5001 (To carry out housekeeping)	M	25	Common across level (3 to 5)
RSC/ N5002 (To carry out reporting and documentation)	M	25	Common across level (3 to 5)
RSC/ N5003 (To carry out quality checks)	M	25	Common across level (3 to 5)
RSC/ N5004 (To carry out problem identification and escalation)	M	25	Common across level (3 to 5)

Please attach any document giving further detail about the structure of the qualification – eg a Curriculum or Qualification Pack.

Give details of the document here:

SECTION 1

ASSESSMENT

Name of assessment body:

If there will be more than one assessment body for this qualification, give details.

- RSDC's affiliated assessment agency. At present RSDC has two affiliated assessment agency.
 1. Aspiring Minds
 2. Trendsetters

Kindly refer RSDC assessment protocol for selection of assessment agency as Annexure 9

Will the assessment body be responsible for RPL assessment?

- Yes

Give details of how RPL assessment for the qualification will be carried out and quality assured.

RPL assessment will be carries out as per normal RSDC assessment process.

Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, consistent and fair and show that these are in line with the requirements of the NSQF:

With uniformity and setting of National Occupational Standards (NOS), for different Jobs Roles the assessment of candidates will be at NOS level. Assessment criterion has been defined for each NOS and it includes both theoretical and practical skills on which the candidate will be assessed. The question suite which will be used to check the skills of the trainee would include

- **Theoretical test suite** – Will include multiple choice questions, audio-video question etc. which will test the trainee on his knowledge of the subject
- **Practical Knowledge suite** – Practical knowledge can be tested through Assessor driven evaluation, Situational Judgment Tests and Simulations. A mix of the three would be able to evaluate the trainee on his practical knowledge of the QP

RSDC's assessment strategy:

- Assessment criteria for each Qualification Pack developed, in which each Performance criteria (PC) assigned marks based on NOS separately for theoretical and practical skill
- Set of question bank developed to assess the theoretical and practical knowledge. To ensure the quality, each trainees get the unique set of question
- Student has to score minimum marks separately for theoretical and practical skill and overall percentage should also be 50%.
- Empanelment of subject matter expert as assessor to assess trainee specifically on practical skills
- Assessments are preferably conducted on tablets or pen or papers in regional languages according to the requirement.
- Questions are uploaded in the tablets only on the day of assessment
- It has been ensure that TP/trainer should not be present during assessment

Please attach any documents giving further information about assessment and/or RPL.

Give details of the document(s) here:

Assessment Process flow

ASSESSMENT EVIDENCE

Complete the following grid for each grouping of NOS, assessment unit or other component as listed in the entry on the structure of the qualification on page 1.

Assessable outcomes	Assessment criteria for the outcome
Assessment Strategy	Marks Allocation

NOS	Elements	Performance Criteria	Total	Theory	Practical
RSC / N 1225 Prepare extruder and collect component	Equipment readiness	PC1. Ensure that the machine (extruder), rubber skid and die stand is clean.	1	0	1
		PC2. Keep weighing scale and all other tools ready in stand before starting the building process	1	0	1
		PC3. Follow equipment preparation process as per company requirements	15	8	7
		PC4. Set parameters for the machine (temperature and other parameters) as per the organizational SOP.	14	8	6
		PC5. Ensure that all safety devices on the machine are properly functioning before start of the work.	13	9	4
		PC6. Fit in heated twin stage die for size as per specification / SOP in the extruder.	11	7	4
		PC7. Ensure that no delays are caused as a result of improper preparation and failure to identify problems.	3	3	0
	Raw material appropriateness	PC8. Collect the required quantity of components.	2	0	2
		PC9. Ensure that all the components required are approved and released by laboratory.	2	2	0
		PC10. Ensure that compounded rubber sheet are cut in specification width and thickness in continuous form	14	8	6
		PC11. Check that strip are soap solution dip to avoid stuck up strip to each other	7	5	2
		PC12. Get the Rubber strips properly placed on Rubber platform	2	0	2
	Health & Safety	PC13. Ensure the use of certified equipments for lifting the components and prepared products	2	2	0
		PC14. Adhere to all safety norms (such as wearing protective gloves ,mask and safety shoes).	5	2	3
		PC15. Avoid spillage and in case of spillage occur , follow safety measures as laid down	6	4	2

		by safety department			
		PC16. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards.	2	2	0
			100	60	40
RSC / N 1226 Prepare Hoses	Raw material appropriateness	PC1. Ensure that the dimension of each component is as specified in the instructions/ organizations SOP.	15	8	7
	Operation	PC2. Loading sequence of components to be strictly followed as per instructions /SOP and should be as per plan to get maximum output.	16	8	8
		PC3. Start the extruder and feed the material as per the SOP	8	0	8
		PC4. Maintain and monitor extrusion speed as per SOP	4	0	4
		PC5. Monitor temperature of the extruder and curing chamber	4	0	4
		PC6. Put the Rubber sticker on raw stage hose pipe with little pressing for Lot and other details before it travels to curing chamber	5	2	3
		PC7. Monitor the proper handling of raw stage hose pipe which enters in Curing chamber which is heated as per SOP	7	3	4
		PC8. Insert talcum powder through second port so that it can throw powder in the centre of the hose pipe while formation of hose itself	6	2	4
		PC9. Monitor the passage of hoses through cooling chamber (air blasting / dipped in water)	2	0	2
		PC10. Ensure proper wind up of hoses	4	0	4
		Health & Safety	PC11. Ensure the use of certified tools and equipments for lifting the components and products	2	2
	PC12. Handle the components intended for coating using hand gloves and other safety equipment as directed by organizations safety department		2	0	2
	PC13. Precaution for use of tool like knife, scissor and hot extruder		5	3	2
	PC14. Precaution against putting han/finger in extruder		3	2	1
	PC15. Adhere to all safety norms (such as wearing protective gloves and shoes, safety goggles etc)		9	4	5
	PC16. Comply with health, safety, environment guidelines and regulations in		2	2	0

		accordance with international/national standards or the organizational standards.				
		PC17. Follow the guidance of safety department to contain spillages which may affect the health and safety of self or the environment in the building area	6	4	2	
			100	40	60	
RSC / N 1227 Perform Post-Hose Preparation Activities	Operation	PC1. Ensure that the output quality is as per the specifications laid down by the technical	16	10	6	
		PC2. Ensure that the final product is free from blister, cut and contaminants	21	13	8	
	Material disposal	PC3. Dispose of waste material safely, as per organizational SOP.	8	3	5	
	Batch Marking	PC4. Ensure identification and traceability by batch marking/coding for the right product as per the instructions laid down by the company (in terms of batch number, weight, color and date stamp).	21	12	9	
	Sampling	PC5. Send sample of the prepared of cable in the specified sample size and method as directed by the company	10	8	2	
	Health & Safety	PC6. Handle the material coming out of the extruder and curing chamber using hand gloves and other safety equipment.	12	6	6	
		PC7. Adhere to all safety norms (such as wearing protective gloves, shoes, safety goggles etc).	9	5	4	
		PC8. Comply with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards.	3	3	0	
				100	60	40
	RSC/N500 1 To Carry Out Housekeeping	Pre housekeeping activities	PC1. Inspect the area while taking into account various surfaces	3	3	0
PC2. Identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain			3	3	0	
PC3. Ensure that the cleaning equipment is in proper working condition			3	3	0	
PC4. Select the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person			3	3	0	
PC5. Plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces			3	3	0	
PC6. Inform the affected people about the cleaning activity			2	2	0	
PC7. Display the appropriate signage for the work being conducted			3	3	0	
PC8. Ensure that there is adequate			3	3	0	

		ventilation for the work being carried out			
		PC9. Wear the personal protective equipment required for the cleaning method and materials being used	3	3	0
	Operations	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
		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
	Post housekeeping activities	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
		PC19. Ensure that, on completion of the work, the area is left clean and dry and meets requirements	8	2	6
		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
RSC/N500 2 To Carry Out Reporting And Documentation	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
	Recording and Documentation	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 Security	PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures	6	6	0
		PC10. Inform the appropriate authority of requests for information received	6	6	0
			100	60	40
RSC/N500 3 To Carry Out Quality Checks	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
		PC8. Review effectiveness of corrective action	5	3	2
	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
RSC/N500 4 To Carry Out Problem	Problem Identification	PC1. Identify defects/indicators of problems	7	4	3
		PC2. Identify any wrong practices that may lead to problems	6	3	3
		PC3. Identify practices that may impact the final product quality	6	3	3

Identification And Escalation		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 Action		PC7. Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required)	8	5	3	
			PC8. Consider possible reasons for identification of problems	8	5	3	
			PC9. Consider applicable corrections and formulate corrective action	3	3	0	
			PC10. Formulate action in a timely manner	3	3	0	
			PC11. Communicate problem/remedial action to appropriate parties	7	5	2	
			PC12. Take corrective action in a timely manner	2	2	0	
			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	
		Problem Escalation		PC21. Escalate problem as per laid down escalation matrix	4	3	1
				PC22. Escalate the problem within stipulated time	4	3	1
			PC23. Escalate the problem in an appropriate manner	3	2	1	
			PC24. Ensure that no delays are caused as a result of failure to escalate problems	3	2	1	
				100	70	30	

SECTION 2

EVIDENCE OF NEED

What evidence is there that the qualification is needed?

Qualification pack has been developed by suggestion and approval of RSDC NOS Subcommittee, which consist of senior leaders and experts from rubber Industry and has been further substantiated by skill gap study conducted by RSDC

What is the estimated uptake of this qualification and what is the basis of this estimate?

We had conducted skill gap study in different states of the country to understand the demand and supply for estimated uptake. Assuming the study finding base for entire rubber industry across the nation, employment opportunity is expected to grow approximately at the rate of 30% in the coming 5 year.

Reports of Skill gap study conducted uploaded on the below link:

<http://rsdcindia.in/knowledge-base.html>

What steps were taken to ensure that the qualification(s) does/do not duplicate already existing or planned qualifications in the NSQF?

Mapping has been done with National Classification of Occupation 2004 to ensure the qualification does not duplicate.

What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated?

Qualification Packs shall be revised annually.

Please attach any documents giving further information about any of the topics above.

Give details of the document(s) here:

SECTION 3

SUMMARY EVIDENCE OF LEVEL

Level of qualification: 4

Summary of Direct Evidence (from learning outcomes):

The building operator - Hoses is accustomed in periodic work, have knowledge to demonstrate skills, using tools & quality concepts and he is able to disseminate with clear responsibility of work, with minimum supervision.

Skill requires fulfil roles and responsibilities along with activities matched with NSQF level 4.

Summary of other evidence (if used):

Building Operator : Hoses - RSC/ Q 1201					
Process Required	Professional Knowledge	Professional Skill	Core Skill	Responsibility	Level
<p>Building operator – Hoses ensures housekeeping & safety in work area and prepare extruder, collect the components required for hose preparation rubber and maintain dies and die stand.</p> <p>He/She needs to know the loading sequence of components and monitor the proper handling of raw stage hose pipe which enters in Curing chamber which is heated to be strictly followed as per instructions /SOP and should be as per plan to get maximum output</p> <p>He/She needs to monitor the passage of</p>	<p>Building operator – Hoses is expected to have knowledge and importance of hose preparation, needs to be well aware of the operations of extrusion and curing.</p> <p>He/She is expected to have knowledge of components used in the building process and adherence to storage temperature and appropriate aging.</p> <p>He/She needs to have knowledge of extrusion operation, maintenance and usage of dies</p> <p>He/She needs to have knowledge of coding, batching, marking and types of defects leading to rejections and their, reasons and possible solutions.</p>	<p>Building operator – Hoses needs to handle extruder and other tools and equipment required in hose building and components used in hose preparation.</p> <p>He/She needs to handle the types of material handling equipment like chain hoists and trolleys</p> <p>He/She needs to have the capacity to apply technology, combining the physical and sensory skills needed to operate equipment with the understanding of scientific and technological principles needed to explore and adapt systems</p> <p>Thus he is practically engaged in the production</p>	<p>Building operator – Hoses is expected to have basic communication skills to fill appropriate forms, process charts and activity logs, etc and also understand application of basic arithmetic principles.</p> <p>Building operator – Hoses is expected to conduct themselves in ways, which show a basic understanding of the social and professional environment of working on shopfloor.</p>	<p>The building operator for hoses is responsible for operating rubber sheets for preparation of hoses.</p> <p>So the Building operator – Hoses is completely responsible for the work on the packaging machine and his own learning.</p> <p>He is continuously engaged in the self-learning process and he has the responsibility for own work.</p> <p>Building operator – Hoses is majorly responsible for his own job and self learning process which justifies the pegging of the QP at level 4 and not directly involved in some learning of others (which is a requirement for Level 5). In his routine activity he is free from</p>	4

<p>hoses through cooling chamber (air blasting / dipped in water) and ensure proper wind up of hoses</p> <p>The activities listed above are the familiar and routine activities in nature and he handles all this independently (with minimal or no supervision).</p>		activity.		supervision (which is a requirement of level 3).	
Level 4	Level 4	Level 4	Level 4	Level 4	

SECTION 4

EVIDENCE OF RECOGNITION OR PROGRESSION

What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?

Occupation Map has been created and attached.

Please attach any documents giving further information about any of the topics above.