

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body

Rubber, Chemical & Petrochemical Skill Development Council

304-305, 3rd Floor, Rectangle One,
Saket District Center, New Delhi – 110017

Name and contact details of individual dealing with the submission

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Position in the organisation: Head

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List of documents submitted in support of the Qualification File

- a) Annexure 1: RCPSDC Affiliation Application Form
- b) Annexure 2: RCPSDC Protocols for Affiliating Assessment Agencies
- c) Annexure 3: Qualification Pack for Bead Extrusion & Assembly Operator
- d) Annexure 4: Occupational Map of the Sector
- e) Annexure 5: Model Curriculum including:
 - Indicative list of tools/equipment to conduct the training
 - Trainers qualification
 - Lesson Plan
 - Distribution of training duration into theory/ practical/ OJT component

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SUMMARY

Qualification Title	Bead Extrusion & Assembly Operator
Qualification Code	RSC/Q1104
NCO Code and Occupation	NCO Code: NCO-2015/8231.35 Occupation: Stock/Component Preparation
Nature and purpose of the qualification	The main purpose of the qualification and the target learners is to get unemployed people into work and to upgrade the skills of people already in work. It is a short-term course.
Body/bodies which will award the qualification	Rubber, Chemical & Petrochemical Skill Development Council
Body which will accredit providers to offer courses leading to the qualification	Rubber, Chemical & Petrochemical Skill Development Council
Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy)	Yes Refer Annexure 1: RCPSDC Affiliation Application Form for Training Partners Annexure 2: RCPSDC Protocols for Affiliating Assessment Agencies
Body/bodies which will carry out assessment of learners	RCPSDC's affiliated assessment agency(ies)
Occupation(s) to which the qualification gives access	Stock/Component Preparation under Tyre manufacturing process

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Job Description of the Occupation	The individual on the job is responsible for insulating bead wires and form circular bundles of required diameter with specified number of strands and turns.
Licensing requirements	N/A
Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	N/A
Level of the qualification in the NSQF	Level - 4
Anticipated volume of training/learning required to complete the qualification	390 Hours
Indicative list of training tools required to deliver this qualification	
Entry requirements and/or recommendations	<p>Minimum Educational Qualifications: 8th Class Pass+ ITI (2 years) in relevant trade + 2 Years of relevant experience OR 10th Class Pass + 2 years of relevant experience OR 12th Class + 6 months of relevant experience</p> <p>Experience: NA</p> <p>Minimum Age: 18 years</p>
Progression from the qualification	Bead Extrusion & Assembly Operator level role which leads to supervisor level in Stock/component preparation process in rubber product manufacturing

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<p>Planned arrangements for the Recognition of Prior Learning (RPL)</p>	<p>Assessments under RPL are carried out as per the normal assessment process followed by RCPSDC.</p>		
<p>International comparability where known</p>			
<p>Date of planned review of the qualification.</p>	<p>31/05/2023</p>		
<p>Formal structure of the qualification</p>			
<p>Title of component and identification code.</p>	<p>Mandatory/Optional</p>	<p>Estimated size (learning hours)</p>	<p>Level</p>
<p>Bridge Module</p>	<p>M</p>	<p>8</p>	<p>4</p>
<p>RSC/N1110 (Prepare material, tools and machine for bead building)</p>	<p>M</p>	<p>52</p>	<p>4</p>
<p>RSC/ N 1111 (Perform bead extrusion and building process)</p>	<p>M</p>	<p>120</p>	<p>4</p>
<p>RSC/ N 1112 (Perform post-bead building activities)</p>	<p>M</p>	<p>90</p>	<p>4</p>
<p>RSC/ N5001 (Carry out housekeeping)</p>	<p>M</p>	<p>19</p>	<p>Common across level (1 to 4)</p>
<p>RSC/ N5002 (Carry out reporting and documentation)</p>	<p>M</p>	<p>19</p>	<p>Common across level (1 to 4)</p>
<p>RSC/ N5003 (Carry out quality checks)</p>	<p>M</p>	<p>20</p>	<p>Common across level (1 to 4)</p>
<p>RSC/ N5004 (Carry out problem identification and escalation)</p>	<p>M</p>	<p>19</p>	<p>Common across level (1 to 4)</p>
<p>RSC/N5007(Follow health & safety practices)</p>	<p>M</p>	<p>26</p>	<p>Common across level (1 to 4)</p>

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RSC/N5603 (Follow ethical and sustainable practices at workplace)	M	17	Common across level (1 to 4)
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Please attach any document giving further detail about the structure of the qualification – e.g. a Curriculum Document or a Qualification Pack.

Refer

Annexure 3: Qualification Pack for Bead Extrusion & Assembly Operator

Annexure 5: Model Curriculum

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

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SECTION 1 **ASSESSMENT**

Body/Bodies which will carry out assessment:

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

- Mercer-Mettl
- Trendsetters
- IRIS Corporate Solution Pvt. Ltd
- E&E Skills
- MSAG
- Eduvantage Pvt. Ltd.
- SP Institute of Workforce Development Pvt Ltd (SPIWD)

How will RPL assessment be managed and who will carry it out?

RPL will be based on the same Qualification Pack and Assessment Criteria mentioned in the QP.

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

The process of RPL assessment is same as that of followed for fresh trainings.

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.

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 is tested through assessor driven evaluation, Situational Judgment Tests and Simulations. A mix of the three is used to evaluate the trainee on his practical knowledge of the QP

To ensure the quality of the assessment, each trainee gets a unique set of questions. A trainee has to score set minimum marks separately for across theoretical and practical skills with an overall percentage of 70% or higher. Assessments are preferably conducted on tablets or papers in regional languages according to the requirement. Questions are uploaded in the tablets only on the day of assessment. To

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ensure fair means and ways being followed during the assessment, presence of the concerned training partner is mandatory.

To ensure quality of assessments further, it is ensured that only Subject Matter Experts (SMEs) are being empanelled. For sourcing the assessors, Assessment Agency will reach out to the Industry experts, Academicians, Members of industry bodies and others to volunteer for the role of an assessor.

The assessment partners are encouraged to hire assessors with integrity, reliability and fairness and enter into an agreement confirming confidentiality, no conflict of interest or any other position, which may compromise the quality of assessment. The assessors need to have adequate hands-on experience in the domain, preferably at a level above the position for which they conduct the assessment. Assessors are trained on the assessment process, and the question sets. At the time of the assessment, the assessors check the identity of the candidates with a photo identification card and attendance during the training.

SSC and Assessment agency review the performance and competence of assessors, on a periodic basis, in order to identify and streamlines any gaps in the process.

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

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

Please follow the link to find the assessment protocol:

http://rsdcindia.in/ssc/training_assessments/training-partners/accreditation/#page-content

ASSESSMENT EVIDENCE

Complete a grid for each component as listed in “Formal structure of the qualification” in the Summary.

NOTE: this grid can be replaced by any part of the qualification documentation which shows the same information – i.e. learning Outcomes to be assessed, assessment criteria and the means of assessment.

Compulsory NOS				Marks Allocation	
Total Marks: 900					
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Skills Theory	Skills Practical
RSC/N1110 Prepare material, tools and machine for bead building	PC1. select and arrange the right material, tools and equipment as per the SOP and job requirements	100	15	7	8
	PC2. check the tools, equipment and material for any defects and that they are as per the required quality standards.		13	5	8
	PC3. check that bead insulator (cold feed extruder), bead assembly units/chucks, wire cutting hand tools and machine etc. are operational and functioning properly		13	5	8
	PC4. ensure that the tools such as wire cutting tools are cleaned and well sharpened.		12	5	7
	PC5. ensure that bead wire spool is laboratory approved and available in required quantity		10	4	6
	PC6. ensure availability of lab released bead compound in the strip form for feeding the cold feed extruders		8	3	5
	PC7. setup the bead insulation machine and its parameters as per the SOP		13	5	8
	PC8. use appropriate Personal Protective Equipment (PPE) for safe working in bead room		8	3	5

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Compulsory NOS				Marks Allocation	
Total Marks: 900					
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Skills Theory	Skills Practical
	PC9. report any emergencies/issues faced during the preparatory activities to the supervisor immediately		8	3	5
	Total		100	40	60
RSC/1111 Perform bead extrusion and building process	PC1. draw bead wire from the spools through the guide rollers and tensioner rolls of extruder and then through the baffle, die assembly	100	9	4	5
	PC2. check the bead compound strip samples before commencing the extrusion to make sure it is ok to use (this is in addition to lab having approved the batches earlier)		5	2	3
	PC3. feed the bead wire to extruder machine and ensure that cold feed extruder is ready to supply rubber for insulation		8	3	5
	PC4. start the machine and commence insulation coating on bead wire ensuring good coverage with no bare wire		15	6	9
	PC5. apply cement adhesive (on line through a cement dip tank), if required		10	4	6
	PC6. pass the insulated wire through cooling drums and festoons to the wind up chuck		8	3	5
	PC7. build the bead bundle with specific number by using wind up chuck of specific diameter, if wire turns and overlap		14	6	8
	PC8. jam the loose end of wire by using one line jammer to avoid the open end		8	3	5
	PC9. use mechanical cutter to cut the wire strip once bundle of coil is built and ready for extraction from chuck		8	3	5
	PC10. remove the bead wire bundle from chuck and hang them on pin stands		5	2	3

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Compulsory NOS				Marks Allocation	
Total Marks: 900					
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Skills Theory	Skills Practical
	PC11. store the bead wire bundle in the designated area as per organisational guidelines and SOP		5	2	3
	PC12. adhere to all safety norms (such as wearing protective gloves and shoes, etc.) in accordance with the international/ national and organisational standards		5	2	3
	Total		100	40	60
RSC/N1112 Perform Post-Bead Building Activities	PC1. clean and keep the tools and equipment properly as per SOP after completion of bead building work.	100	8	3	5
	PC2. carry out labelling i.e. batch marking/ coding on the bead wire bundles specifying the information related to process and standards followed in organisation		8	3	5
	PC3. dispose waste material into the disposal area in accordance with the company's policies and environmental regulations		6	3	3
	PC4. ensure there is no left over of compounds in the work area after completion of work		4	2	2
	PC5. ensure that bare wires are kept well covered and ready to use whenever needed		4	2	2
	PC6. report to the supervisor immediately about any variation in the bead bundle, process related problems at bead extruders and problems related to machine set up and actual obtained dimensions		8	3	5
	PC7. check the dimension of bead wire bundles diameter, overlap length, turns and strands as per the work instructions for product quality		13	5	8

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Total Marks: 900					
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Skills Theory	Skills Practical
	PC8. note down the observations of the basic inspection process and identify pieces that are as per the specified standards		5	2	3
	PC9. send samples of bead bundles in specified form to lab for quality check and testing		8	3	5
	PC10. tag and store the bead wire bundles by following organisational policies and procedure		8	3	5
	PC11. store the bead wire bundles to ensure smooth flow for bead wrapping, apexing and flipper application		8	3	5
	PC12. send bead bundles to band building or tyre building as required by following organisational guidelines and SOP		8	3	5
	PC13. update and maintain the log book with details of bead wire source, lot number, compound code, mixed date and batch number to facilitate the traceability		7	3	4
	PC14. adhere to all safety norms (such as wearing protective gloves and shoes, etc.) in accordance with the international/ national and organisational standards		5	2	3
	Total		100	40	60
RSC/N5001 Carry Out Housekeeping	PC1. Inspect the area while taking into account various surfaces		4	2	2
	PC2. Identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain		5	2	3
	PC3. Ensure that the cleaning equipment is in proper working condition		4	2	2

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Compulsory NOS				Marks Allocation	
Total Marks: 900					
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Skills Theory	Skills Practical
	PC4. select the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the concerned person	100	4	2	2
	PC5. plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces		4	2	2
	PC6. inform the affected people about the cleaning activity		2	0	2
	PC7. display the appropriate signage for the work being conducted		6	1	5
	PC8. ensure that there is adequate ventilation for the work being carried out		1	1	0
	PC9. wear the personal protective equipment required for cleaning method and know the materials being used		4	2	2
	PC10. use the correct cleaning method for the work area, types of soiling and surface		2	2	0
	PC11. carry out cleaning activity without disturbing others		5	0	5
	PC12. manage the accidental damage, if any, caused while carrying out the work		10	0	10
	PC13. report to the appropriate person about any difficulties in carrying out work		2	2	0
	PC14. identify and report to the appropriate person, if any additional cleaning is required, which is outside the scope of one's responsibility or skill		2	2	0
	PC15. ensure that there is no oily substance on the floor to avoid slippage		7	2	5
	PC16. ensure that no scrap material is lying around		7	2	5

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Compulsory NOS				Marks Allocation	
Total Marks: 900					
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Skills Theory	Skills Practical
	PC17. maintain and store housekeeping equipment and supplies		7	2	5
	PC18. follow workplace procedures to deal with any accidental damage caused during the cleaning process		4	2	2
	PC19. ensure that, on completion of the work, the area is left clean and dry and meets requirements		4	2	2
	PC20. return the equipment, materials and personal protective equipment that are used to the right places, making sure they are clean, safe and stored securely		4	2	2
	PC21. dispose off the waste garnered from the activity in an appropriate manner		4	2	2
	PC22. dispose of used and un-used solutions according to the manufacturer's instructions, and clean the equipment thoroughly		4	2	2
	PC23. maintain schedules and records for housekeeping duty		2	2	0
	PC24. replenish any necessary supplies or consumables		2	2	0
	Total			100	40
RSC/N5002 Carry Out Reporting and	PC1. report data/ problems/ incidents as applicable, in a timely manner	100	12	5	10
	PC2. report to the appropriate authority, as laid down in company's SOP		12	5	10
	PC3. report to the appropriate authority, as laid down in company's SOP.		12	5	10
	PC4. identify documentation to be completed relating to one's role		10	5	5
	PC5. record details accurately in an appropriate format		16	5	0

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Compulsory NOS				Marks Allocation	
Total Marks: 900					
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Skills Theory	Skills Practical
Documentation	PC6. complete all documentation within stipulated time according to the company's procedure		14	5	10
	PC7. ensure that the final document meets the requirements of the person who requested for it or make amendments accordingly		6	3	5
	PC8. ensure that documents are available for all the appropriate authorities for inspection		6	2	0
	PC9. respond to the requests for information in an appropriate manner while following the organisational procedure		6	5	5
	PC10. inform the appropriate authority of requests for information received		6	0	5
	Total		100	40	60
RSC/N5003 Carry Out Quality Checks	PC1. ensure that the total ranges of checks are regularly and performed consistently		7	2	5
	PC2. use appropriate measuring instruments, equipment, tools, accessories, etc., as required		7	2	5
	PC3. identify non-conformities to quality assurance standards		5	2	3
	PC4. identify potential causes of nonconformities to quality assurance standards		15	5	10
	PC5. identify the impact on final product due to non-conformance to company standards		15	5	10
	PC6. evaluate the need for action and ensure that problems do not recur		5	0	5
	PC7. suggest corrective action to address problems		5	5	5
	PC8. review effectiveness of corrective action		5	0	5
		100			

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Total Marks: 900					
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Skills Theory	Skills Practical
	PC9. interpret the results of quality checks correctly		7	2	5
	PC10. take up results of the findings with QC (Quality Control) in-charge or appropriate authority.		6	2	4
	PC11. take up the results of the findings within the stipulated time		6	2	4
	PC12. record the results of actions taken		4	2	2
	PC13. record adjustments that are not covered by established procedures for future reference		2	2	0
	PC14. Review effectiveness of action taken		4	2	2
	PC15. follow reporting procedures where the cause of defect cannot be identified		2	2	0
	Total		100	35	65
RSC/N5004 Carry Out Problem Identification and Escalation	PC1. Identify defects/indicators of problems		3	1	2
	PC2. Identify any wrong practices that may lead to problems		3	1	2
	PC3. Identify practices that may impact the final product quality		3	1	2
	PC4. recognise if the problem has occurred before		1	1	0
	PC5. identify other operations that might be impacted by the problem		7	2	5
	PC6. ensure that no delays are caused because of failure to escalate problems		5	2	3
	PC7. take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required)		6	2	4
	PC8. consider possible reasons for the identification of problems		6	3	3

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Total Marks: 900					
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Skills Theory	Skills Practical
	PC9. consider applicable corrections and formulate corrective action, accordingly	100	6	3	3
	PC10. formulate actions on time		6	3	3
	PC11. communicate problem/remedial action to the appropriate parties		3	3	0
	PC12. take corrective actions on time		5	3	2
	PC13. take corrective action for problems identified according to the company procedures		6	3	3
	PC14. report/document problems and corrective actions in an appropriate manner		5	2	3
	PC15. monitor corrective actions		4	2	2
	PC16. evaluate the implementation of corrective action taken to determine if the problem has been resolved		3	1	2
	PC17. ensure that corrective actions selected are viable and practical		3	1	2
	PC18. ensure that the correct solution is identified for a particular problem		5	2	3
	PC19. take corrective actions for problems identified according to the company procedures		5	2	3
	PC20. ensure that no delays are caused as a result of failure to take necessary action		6	3	3
	PC21. escalate problems as per the escalation matrix laid down by the company		2	1	1
	PC22. escalate problems within the stipulated time	2	1	1	

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Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Skills Theory	Skills Practical
	PC23. escalate the problem in an appropriate manner		2	1	1
	PC24. ensure that no delays are caused because of failure to escalate problems		3	1	2
	Total		100	45	55
RSC/N5007 To Follow health & safety protocol	PC1. Undertake basic safety checks before operation of all machinery and equipment and report hazards to the appropriate supervisor	100	4	2	2
	PC2. Work for which protective clothing or equipment is required is identified, and the appropriate protective clothing or equipment is used in performing these duties in accordance with workplace policy.		4	2	2
	PC3. Read and understand the hazards of use and contamination mentioned on the labels of chemicals, utilities etc.		2	0	2
	PC4. Prior to performing manual handling jobs, the risk is assessed, and work is carried out according to currently recommended safe practices.		4	2	2
	PC5. Use equipment and materials safely and correctly and return the same to designated storage when not in use		3	1	2
	PC6. Dispose of waste safely and correctly in a designated area.		6	2	4
	PC7. Risks to bystanders are recognized and action taken to reduce the risk associated with jobs in the workplace.		2	0	2
	PC8. Perform work in a manner which minimizes environmental damage.		2	0	2
	PC9. All procedures and work instructions for controlling risk are followed closely.		1	0	1

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Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Skills Theory	Skills Practical
	PC10. Report any accidents, incidents or problems without delay to an appropriate person and take immediate necessary action to reduce further danger.		2	0	2
	PC11. Follow procedures for dealing with accidents, fires and emergencies, including communicating location and directions to an emergency.		6	2	4
	PC12. Follow emergency procedures as per company standards and workplace requirements.		6	2	4
	PC13. Use emergency equipment in accordance with manufacturers' specifications and workplace requirements.		6	2	4
	PC14. Provide treatment appropriate to the patient's injuries in accordance with recognized first aid techniques.		1	0	1
	PC15. Recover (if practical), clean, inspect/test, refurbish, replace and store the first aid equipment as appropriate		2	0	2
	PC16. Dispose of medical waste in accordance with workplace requirements		1	0	1
	PC17. Report details of first aid administered in accordance with workplace procedures.		5	3	2
	PC18. Comply with general safety procedures		6	2	4
	PC 19. Follow standard safety procedures while handling equipment, hazardous material or tool		2	0	2

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Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Skills Theory	Skills Practical
	PC20. Check parts of the workplace and take preventive actions like spraying and other steps to protect from leakages, water logging, pests, fire, pollution, etc.		6	2	4
	PC21. Ensure no accidents and damages at the workplace, reporting of any breach of company safety procedure		1	0	1
	PC22. Keep the workplace organized, swept, clean and hazard free		6	2	4
	PC23. Attend fire drills and other safety-related workshops organized at the workplace		4	1	3
	PC24. Create awareness about first aid, evacuation and emergency procedures		4	1	3
	PC25. Ensure all safety procedures are followed without neglecting any event		2	0	2
	PC26. Avoid accidents while using hazardous chemicals, machines, sharp tools and equipment		4	1	3
	PC27. Use safety materials such as protective gear, goggles, caps, shoes, etc.(as applicable with workplace)		4	2	2
	PC28. Handle heavy and hazardous materials with care and using appropriate tools and handling equipment such as trolleys, ladders		4	1	3
	Total		100	30	70
RSC/N5603 Follow ethical and	PC1. follow organizational policies for usage of alternate energy source, such as solar energy, for the site		6	3	3

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Total Marks: 900					
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Skills Theory	Skills Practical
sustainable practices at the workplace	PC2. ensure proper usage of fuels (such as diesel) to minimise pollution and conserve energy.	100	8	2	6
	PC3. use resources in a responsible manner.		8	2	6
	PC4. ensure zero wastage of water and follow water conservation practices at the workplace.		7	2	5
	PC5. carry out processes to prevent soil erosion during plantation and other related activities		8	2	6
	PC6. identify and segregate different types of waste such as recyclable, non-recyclable, and hazardous waste generated.		7	3	4
	PC7. store waste into different types of bins/containers or appropriate areas based on their categorisation		7	3	4
	PC8. undertake disposal of non-recyclable waste appropriately as per the prescribed procedure.		7	3	4
	PC9. organise storage of recyclable and reusable material at identified location.		5	2	3
	PC10. ensure proper disposal of hazardous waste as per specified processes.		4	2	2
	PC11. ensure timely execution of the assigned tasks.		4	4	0
	PC12. exhibit proper etiquette and emotional behaviour at workplace and among team members.		4	1	3

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Compulsory NOS				Marks Allocation	
Total Marks: 900					
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Skills Theory	Skills Practical
	PC13. follow appropriate non verbal communications taking gender and disability of the person into consideration.		9	4	5
	PC14. communicate in a polite and appropriate manner irrespective of the ability and gender of the person.		8	3	5
	PC15. ensure to provide work assistance/support to PwD team members and coordinate with them if needed or requested		8	4	4
	Total		100	40	60

Means of assessment 1

The assessment comprises of:

- Written Assessment
- Viva
- Practical assessment

Pass/ Fail

The Pass mark of written assessment is 40% and for viva and practical assessment is 60%. Total passing mark is 70%.

SECTION 2
EVIDENCE OF LEVEL

Bead Extrusion & Assembly Operator			
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF level
Process	<ul style="list-style-type: none"> Ensures housekeeping & safety in work area and prepare the extruder for insulating bead wires of given strands and build them into bead rings of given turns and specified diameter Prepare the bead building rings with the on line cutting tools and machine Load bead wire spools loaded at let off station to carry out bead building operations Ensures functioning of bead insulator (cold feed extruder), sets bead wire spools at let off positions and prepare cold feed extruder for bead compound extrusion and insulation of wire 	To carry out the process, the person is required to: <ul style="list-style-type: none"> Select the appropriate tools and equipment for undertaking assigned process Take appropriate decisions at his level Carry out execution of the job with minimum wastage and maximum efficiency Place the tools in a safe location 	4
Professional knowledge	<ul style="list-style-type: none"> Factual knowledge of processes and understand the risk of not following defined procedures. Knowledge and importance of extrusion, needs to be well aware of the operations. Knowledge of working on cold feed extruder, procedure of insulation of wire using cold feed 	The technical knowledge of the person empowers him/ her to: <ul style="list-style-type: none"> Prepare the product as per the specification Handle and use the machines and equipment in proper manner Undertake checks as per the requirement 	4

NSQF QUALIFICATION FILE

Approved in 19th NSQC Meeting – NCVET – 26/05/2022

Bead Extrusion & Assembly Operator			
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF level
	<p>extruder and proper - setting of machines to achieve desired turns and overlap of bead wire strands</p> <ul style="list-style-type: none"> • Knowledge of cutter blade inspection for improper or rough cutting and avoid wrinkling of fabric due to damaged cutting blade and functioning of functioning of extruder , dies , baffles and the cutter knives • Knowledge of coding, batching, marking and types of defects leading to rejections and there, reasons and possible solutions. 	<ul style="list-style-type: none"> • Understand the importance of timely completion of a process and implication of delays • Carry out corrections • Complete the task as per the sops • Find out the repair requirements • Use safety measures to avoid any kind of damage 	
Professional Skill	<ul style="list-style-type: none"> • Handle bead wire pallets, spools, machines, tools and insulated wires • Handle bead wire insulator/extruder machine, die and baffle. • 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>To enhance the productivity and efficiency, the person is required to:</p> <ul style="list-style-type: none"> • Review and analyse the process steps to check on system non-adherence and non-conformity • Identify any issues affecting the material, equipment or surroundings • Escalate issues that cannot be solved as per the troubleshooting/company manual • Identify defects in the material and communicate it at the earliest and suggest improvements (if any) in process/material based on experience 	4

NSQF QUALIFICATION FILE

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Bead Extrusion & Assembly Operator			
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF level
		<ul style="list-style-type: none"> Identify the problems pertaining to the electrical equipment based on visual inspection and work efficiency 	
Core Skill	<ul style="list-style-type: none"> Read and understand manuals, health and safety instructions, memos, reports, job cards etc. Read images, graphs, diagrams Understand the various coding systems as per company norms Express statements, opinions or information clearly so that others can hear and understand Communicate with upstream and downstream teams Practice honesty with respect to company property and time Communicate with people in a form and manner and using language that is open and respectful Take initiative to enhance/learn skills in one's area of work Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations Work in disciplined factory environment 	<p>For maintaining coordination and attain growth, the person is expected to:</p> <ul style="list-style-type: none"> Apply his oral and writing skills for effective communication Possess documentation skill to collect information, fill up forms, etc. Maintain discipline and cordial work environment in the operational area Interact with superiors briefing them on stats of work completion and pending targets, alternate strategies, etc. Encourage learning and be receptive for improvement Analyse the situation and use problem solving approach for smoother operations 	4

NSQF QUALIFICATION FILE

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Bead Extrusion & Assembly Operator			
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF level
	<ul style="list-style-type: none"> • Be punctual 		
Responsibility	<ul style="list-style-type: none"> • Take responsibility for completing one's own work assignment • Resolve any difficulties in relationships with colleagues, or get help from an appropriate person, in a way that preserves goodwill and trust • Respond appropriately to any queries • Ensure proper safety in the work area • Proper waste disposal • Proper storage of prepared and unused material • Timely reporting and documentation • Responsible for coating the wire with the specific rubber compound using an extruder • Responsible for the work on the extruder machine and his own learning 	<p>At the operator's level, take up the responsibility for:</p> <ul style="list-style-type: none"> • Identifying faulty equipment/ part of an equipment and taking necessary rectification • Taking care of health and safety issues of the workers and himself • Following safety procedures especially while working under no/ minimal supervision • Following Personal and Equipment safety procedures while handling equipment and sophisticated instruments and tools • Engaged in the self-learning process and he has the responsibility for own work 	4

SECTION 3**EVIDENCE OF NEED**

What evidence is there that the qualification is needed?

Basis	In case of SSC	In case of other Awarding Bodies (Institutes under Central Ministries and states departments)
Need of the qualification	Need of the qualification can be substantiated by skill gap studies conducted by RCPSSDC. (Refer: http://rsdcindia.in/www/knowledge-bank/ for the published reports)	N/A. The certifications for the job role of Bead Extrusion & Assembly Operator is awarded by RCPSSDC only.
Industry Relevance	Qualification Pack for the Bead Extrusion & Assembly Operator job role, has been developed by suggestion and approval of RCPSSDC NOS Subcommittee, which consists of senior leaders and experts from the rubber Industry.	N/A. The certifications for the job role of Bead Extrusion & Assembly Operator is awarded by RCPSSDC only.
Usage of the qualification	To ascertain the number of enrolments vis-à-vis number of certifications awarded by the SSC, refer to the dashboard present at http://rsdcindia.in/www/	N/A. The certifications for the job role of Bead Extrusion & Assembly Operator is awarded by RCPSSDC only.
Estimated uptake	RCPSSDC conducted skill gap studies in different states of the country to understand the demand and supply for Bead Extrusion & Assembly Operator. Assuming, the study findings as the basis for entire rubber industry across the nation, employment opportunity is expected to grow approximately at the rate of 30% in the coming 5 years. (Refer: http://rsdcindia.in/www/knowledge-bank/ for the published reports)	N/A. The certifications for the job role of Bead Extrusion & Assembly Operator is awarded by RCPSSDC only.

Recommendation from the concerned line Ministry of the Government/Regulatory Body. To be supported by documentary evidences

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

NSQF QUALIFICATION FILE

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Mapping has been done with National Classification of Occupation 2015 to ensure the qualification does not duplicate. Additionally, NSDC QRC team checks and confirms this.

**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?**

Technical Committee's inputs are sought from time-to-time as needed to check the relevance of QP/ NOSs, and the revision exercise is undertaken, as needed. This revised is a continuous improvement process.

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

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

NSQC Approved

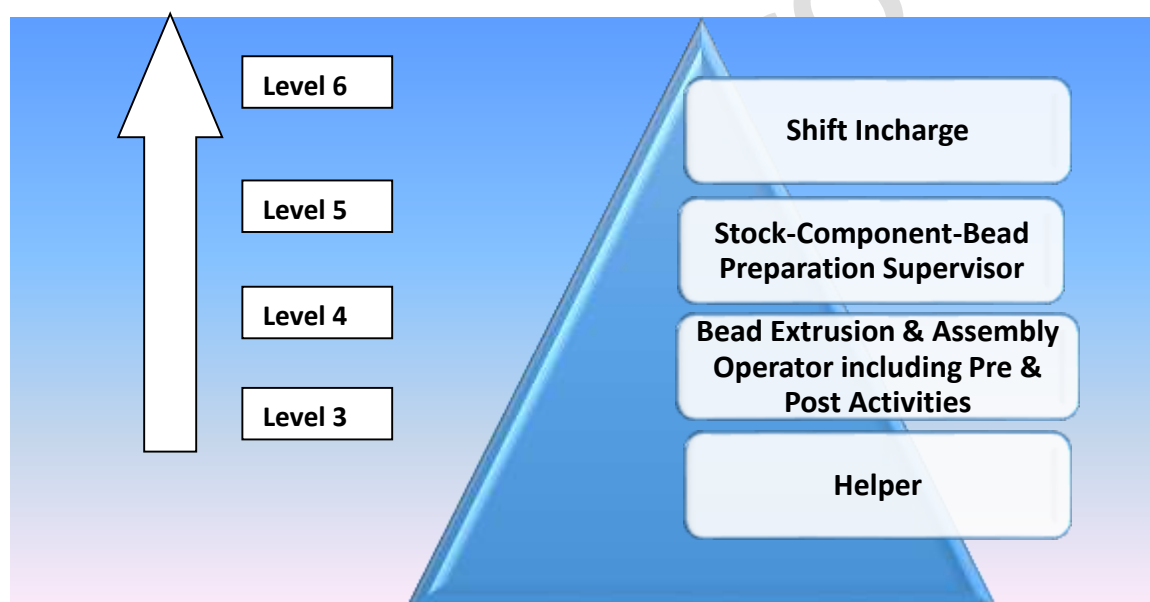
SECTION 4

EVIDENCE OF 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?

Mobility options to other qualifications are enabled through the alignment of educational qualifications and prior work experience stated as a requirement in the respective qualifications.

For example: Post qualifying the certification of Bead Extrusion & Assembly Operator, candidate has an option to qualify for Stock-Component-Bead Preparation Supervisor Job role for Vertical Progression and can move to other lateral qualification in Moulding/Curing occupation in rubber products manufacturing Process.



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

Refer

Annexure 3: Qualification Pack (QP)

Annexure 4: Occupational Map of the sector

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.