

## **NSQF QUALIFICATION FILE**

### **CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE**

#### **Name and address of submitting body:**

##### **Textile Sector Skill Council (TSC)**

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#### **List of documents submitted in support of the Qualifications File**

1. Career Map of Jute Carding Operator- [Annexure 1](#)
2. QP TSC/Q0108- [Annexure 2](#)
3. Skill gap report for Jute sector - [Annexure 3](#)
4. Production for EOI for AA Accreditation of assessment Agencies and Assessment Framework - [Annexure 4](#)
5. TP affiliation procedure and norms - [Annexure 5](#)

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Model Curriculum to be added which will include the following:

- Indicative list of tools/equipment to conduct the training
- Trainers qualification
- Lesson Plan
- Distribution of training duration into theory/practical/OJT component

### SUMMARY

1	<b>Qualification Title</b>	Jute Carding Operator
2	<b>Qualification Code, if any</b>	TSC/Q0108
3	<b>NCO code and occupation</b>	2015/8151.9900
4	<b>Nature and purpose of the qualification (Please specify whether qualification is short term or long term)</b>	This is a Qualification Pack (QP) containing National Occupational Standards for the job role - Jute Carding Operator The main purpose of the qualification is to get unemployed people into work and to upgrade the skills of people already working. The target learners are unemployed and those looking for skill improvement.
5	<b>Body/bodies which will award the qualification</b>	Textile Sector Skill Council (TSC)
6	<b>Body which will accredit providers to offer courses leading to the qualification</b>	Textile Sector Skill Council (TSC)
7	<b>Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy)</b>	The Training Partner affiliation norms are as per the guidelines of PMKVY scheme through SMART portal.  TP affiliation Norms.pdf
8	<b>Occupation(s) to which the qualification gives access</b>	Spinning Preparatory, Jute
9	<b>Job description of the occupation</b>	The Jute Carding Operator is responsible to operate the Jute Carding Machine efficiently so as to maintain the desired productivity and quality of the carded slivers of jute.
10	<b>Licensing requirements</b>	N/A
11	<b>Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)</b>	N/A
12	<b>Level of the qualification in the NSQF</b>	Level 4

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13	<b>Anticipated volume of training/learning required to complete the qualification</b>	300 hours
14	<b>Indicative list of training tools required to deliver this qualification</b>	Jute textile mill running for at least past 3 years with Jute Carding machine in running production, Jute feed material, Sliver can, Setting Gauge.
15	<b>Entry requirements and/or recommendations and minimum age</b>	Basic Literacy and Numeracy 0-6 Months experience in a Jute Mill as machine operator Minimum Job Entry Age- 18 years
16	<b>Progression from the qualification (Please show Professional and academic progression)</b>	<ul style="list-style-type: none"> <li>- Access to other qualifications at the same NSQF level – Jute Draw frame Operator, Jute Selector cum assorter</li> <li>- Access to related qualification(s) at the next NSQF level – Jute Spinning Sardar</li> </ul>
17	<b>Arrangements for the Recognition of Prior learning (RPL)</b>	The process and guidelines for RPL will be same as those for Pradhan Mantri Kaushal Vikas Yojana (PMKVY)
18	<b>International comparability where known (research evidence to be provided)</b>	Attempt was made to understand the international standards followed under this Qualification pack. Over 97% of the World's Jute production comes from India and Bangladesh. Bangladesh follows Indian standards. It is important to note that most of the countries who have defined NOS do not have a Jute textile industry. However, numeracy, literacy and basic science levels have been considered during the preparation of NOS in order to match with the existing Indian industry requirements. It is also to be noted that a large section of this industry having fulfilled the stringent export norms, justifies the Standardisation of such a qualification pack. The source of this comparison has been based on the desk research and TSC would undertake evaluation of the same through other relevant methods in due course of time.

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19	<b>Date of Planned Review of the Qualification</b>			<b>09/08/2022</b>
20	<b>Formal Structure of the Qualification</b>			
	<b>Mandatory components</b>			
21	<b>Title of the Component and Identification Code/NOSs/Learning Outcomes</b>	<b>Estimated size (Learning Hours)</b>	<b>Level</b>	
i)	TSC/N0125 Taking charge of shift and handing over shift to Jute carding operator	33	4	
	TSC/N0126 Operating the Jute carding machine	64	4	
	TSC/N0127 Doffing the carded Jute sliver	66	4	
	TSC/N9011 Maintain work area, tools, material handling equipment and machinery for jute processing	33	4	
	TSC/N9002 Working in a team	32	4	
	TSC/N9003 Maintain health, safety and security at workplace	40	4	
	TSC/N9010 Comply with industry and organizational requirement in jute sector	32	4	
	<b>Sub Total</b>	<b>300</b>		

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### SECTION 1

#### ASSESSMENT

<b>21</b>	<p><b>Body/Bodies which will carry out assessment:</b></p> <ol style="list-style-type: none"><li>1. C K Skills Research &amp; Development Pvt. Ltd</li><li>2. Cindrel Infotech Private Limited</li><li>3. Cocubes Technologies Pvt Ltd</li><li>4. Edu Vantage Pvt Ltd</li><li>5. Eduworld Consultants Pvt. Ltd</li><li>6. Federation of Indian Woman Entrepreneurs</li><li>7. FICCI</li><li>8. Growwell Fincon Services</li><li>9. Independent Qualitative Assessors Glide Pvt Ltd</li><li>10. India Skill Pvt Ltd</li><li>11. Intouch Financial Services Pvt. Ltd.</li><li>12. Mettl (Induslynk Training Services Pvt Ltd)</li><li>13. Navriti Technologies (P) ltd.</li><li>14. PVR Skill Central Pvt. Ltd</li><li>15. Rohstoffe International Pvt Ltd</li><li>16. Shiksha Bharti</li><li>17. Skill Mantra Edutech Consulting India Pvt Ltd</li><li>18. The Assessors Guild (TAG)</li><li>19. Trend Setter Skill</li><li>20. Virtual Education Trust</li></ol> <p>These assessment bodies have been chosen through a transparent process after thorough scrutiny of the credentials presented in response to the RFP. All of them have prior experience of carrying out similar assessment for their SSCs in the past and have presented their assessment methodology that details the assessor identification methodology. The exercise was done by C3A - TSC's technical Committee for Affiliation, Accreditation and Assessment comprising of Industry experts.</p>
<b>22</b>	<p><b>How will RPL assessment be managed and who will carry it out?</b> The assessment body shall be responsible for RPL assessment.</p> <p>In RPL, the candidate has acquired the skills and knowledge while working and requires assessment and certification only. RPL is the acknowledgement of skills and knowledge obtained through:</p> <ul style="list-style-type: none"><li>• Formal training</li><li>• Work experience</li><li>• Life experience</li></ul>

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	<p>The focus of RPL is the complete gained from these experiences; not how, when, or where the learning occurred.</p> <p>Process or steps in RPL assessments:</p> <ol style="list-style-type: none"><li>1. Offering RPL to potential candidates</li><li>2. Providing information to the candidates</li><li>3. Self-assessment</li><li>4. Evidence collection</li><li>5. Assessment and making the decision</li><li>6. Feedback to the candidates</li><li>7. Documentation of outcomes</li></ol>
23	<p><b>Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, reliable and fair and show that these are in line with the requirements of the NSQF.</b></p> <ol style="list-style-type: none"><li>a) The emphasis is on 'learn-by-doing' and practical demonstration of skills and knowledge based on the performance criteria.</li><li>b) The assessments papers are developed by Subject Matter Experts (SME) available with the Assessment Agency as per the performances and assessment criteria mentioned in the Qualification Packs.</li><li>c) The assessments papers are also checked for the various outcome based parameters such as quality, time taken, tools &amp; equipment requirement, etc.</li><li>d) The assessments are designed so as to assess maximum parts during the practical hands on work. Duties and responsibility of Jute Carding Operator also assessed. The technical limitations at the training centres are taken care in theory and viva.</li><li>e) The assessments agencies are instructed to hire qualified and experienced assessors as per TSC's criteria who have integrity, reliability and fairness. Each assessor shall sign a document with its assessment agency by which they commit themselves to comply with the rules of confidentiality and conflict of interest, independence from commercial and other interests that would compromise impartiality of the assessments.</li><li>f) The assessment agencies are instructed to ideally have assessors with the right mix of industry experience, academia and these are detailed in Assessment Agency Protocol of TSC.</li><li>g) The assessors selected by Assessment Agencies are scrutinized and made to undergo training and introduction to Assessment Framework, competency based assessments, assessors guide etc. and they are assessed for Domain and assessment Skills. Only those assessors who clears both the assessments with minimum 80% marks in each are permitted to carry out assessments.</li><li>h) The assessors are provided with "Assessors guide" developed by the Subject Matter Expert of the Assessment Agency or by Textile SSC as per Assessment Framework. The "Assessor guides" are developed to ensure the maximum possible consistency/transparency in the assessment by different assessors and elaborate on the following:<ol style="list-style-type: none"><li>1. Qualification Pack Structure.</li></ol></li></ol>

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2. Guidance for the assessors to conduct theory, practical and viva assessments.
3. Guidance for trainees to be given by assessor before the start of the assessments.
4. Guidance on assessment process, practical brief with step of operational practical observation checklist Attendance Sheet and mark sheet.
5. Viva guidance for uniformity and consistency across the batch.
6. Guidance on assessment evidence collection.

The assessment results are backed by evidence collected by assessors.

1. The assessors need to collect a copy of the attendance sheets for the training done under the scheme. The attendance sheets are signed and stamped by the in charge/ Head of the training centre.
2. The assessors need to verify the authenticity of the candidate by checking the photo ID card issued by the institute as well as any one Photo ID card issued by the Central/Government. The same need to be mentioned in the attendance sheet. In case of suspicion, the assessor should authenticate and cross verify trainee's credential in the enrolment form.
3. The assessors need to take a camera to click photograph of the trainees working on the job and giving theory exam as evidence.
4. The assessors also need to carry a Photo ID card.
5. The assessors also need to take the photographs as evidence from appropriate angles/sides of the final work piece/job submitted by the trainee.
6. The details on assessment framework are elaborated in Textile SSC protocol for accreditation of Assessment Agencies and Assessment Framework.

All accredited Assessment Agencies follow the "Textile SSC protocol for accreditation of Assessment Agencies and Assessment Framework". Each NOS in the Qualification Pack (QP) will be assigned a relative weightage for assessment based on the criticality of the NOS. Therein each Performances Criteria in the NOS will be assigned marks for theory or practical based on relative importance, criticality of function and training infrastructure.

Relevant and recent documents giving further information about assessment and/or RPL.

1. Format for EOI for AA Accreditation from TSC- [Annexure 5](#)
2. Protocol for Accreditation of Assessment Agencies and Assessment Framework – [Annexure 4](#)

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### ASSESSMENT EVIDENCE

#### 24. Assessment evidences

Title of Component:

Outcomes to be assessed/NOSs to be assessed	Assessment criteria for the outcome
<b>1.TSC/N0125 Taking charge and handing over shift to jute carding machine operator</b>	PC1.come at least 10 - 15 minutes earlier to the work spot
	PC2.check the availability of Piled Jute/ Spreader roll for feeding to Jute Carding machine
	PC3.ensure the availability of the operational tools like knife, Knife sharpener, picking hook, broom etc. nearby the machine
	PC4.interact with the previous shift jute carding operator and take information regarding the quality of jute to be fed,/run (as recommended for the yarn quality to spin)
	PC5.ensure the availability of the recommended variety (grade) of piled jute/spreader roll/sliver as per quality of the Jute Yarn to make
	PC6.ensure cleanliness of the surrounding area as well as the department (particularly beneath the machine)
	PC7.ensure that the cut roots of Jute strand (reed) are kept/stored in the proper place
	PC8.check the colour coding of different quality of Jute sliver rolls, as per quality & grade of raw jute (TD3-TD7 or W3-W7), or the display board (mentioned the jute grade) in case of piled jute
	PC9.ensure running status of the carding machine while taking charge, with correct draft change pinion (written in board)
	PC10.patrol around the carding department to trace out and remove any undesirable material lying on the floor
	PC11.check that the roll former in 1st card (Breaker card) is in proper working condition, and need no maintenance
	PC12.ensure that the machines are in running condition before handing it over to the next shift
	PC13.convey your counterpart regarding any maintenance work to be carried out in the next shift in case of necessity
	PC14.inform the incoming carding operator about quality, colour code, piled jute stock, machine

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	parameter etc., and mechanical problems ( if any, and cannot be done due to lack of time)
	PC15.ensure uniform and regular delivery of fleece of jute sliver from the doffer on the conductor (delivery side without any interruption)
	PC16.all types of wastages like droppings below the machine, sliver wastages, fleece to be collected, weighed and sent to the back for reprocess
	PC17.ensure the handover of clean and running machine as well as the clean surroundings
	PC18.any delayed arrival of the counterpart to be reported to supervisors
<b>2.TSC/N0126 Operating the Jute carding machine</b>	PC1.ensure that starting/stopping/control switches are O.K. in case individual drive and alternative arrangements in case of group drive
	PC2.understand the quality of jute fibre in the morah/spreader roll
	PC3.ensure that piling duration of jute as prescribed and matured for carding
	PC4.check the colour code used for different grade and quality of jute
	PC5.ensure correct procedure of feeding on the feed table and check the conveyor sheet are working properly
	PC6.ensure correct dollop weight and timing for the feeding
	PC7.ensure sliver regularity by discarding some portion of sliver, before and after every stoppage of machine ensure the cleanliness of the feed roller to avoid jam or entanglement there
	PC8.ensure that machine safety arrangement functioning correctly, in case of jam in the feed roller
	PC9.ensure correct moisture content of the feed material to avoid related problems like jam in different pin rollers
	PC10.maintain required doubling and replace as soon as any roll exhausted
	PC11.watch regularly the performance of doffer roller and regularity of the delivered fleece on the conductor
	PC12.observe regularly the uniformity of the fleece to have a regular sliver weight (lbs. /100 yards)
	PC13.watch delivery side so that any jam/accumulation in the delivered fleece can be avoided

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	<p>PC14.frequent checking of carded rolls ,its compactness, shape and sizes should be up to the desired level</p> <p>PC15.after doffing, keep/ store the carded rolls properly</p> <p>PC16.collect the wastages like sliver, fleece, droppings time to time and take weight to understand the corrective measures required</p> <p>PC17.ensure regular cleaning and lubrication as scheduled</p> <p>PC18.keep contact with the maintenance department for better performance of the carding machine</p> <p>PC19.ensure the availability of fire extinguisher near the machine to fight against fire</p>
<b>3.TSC/N0127 Doffing the carded Jute sliver</b>	<p>PC1.ensure proper working of delivery roll, and roll former (no jamming)</p> <p>PC2.open the cover of the doffing zone of card and clean the doffer periodically for ensuring proper jute sliver delivery</p> <p>PC3.don't allow slivers to accumulate in delivery conducting plate</p> <p>PC4.collect the waste from shrouding plate zone</p> <p>PC5.ensure the carded jute sliver passes through the delivery conducting plate and/or conveyor/ rollers and to pass it through the conductor/ conveyor/ rollers (as the case may be) to the delivery zone for formation of condensed sliver roll to pass to roll former</p> <p>PC6.ensure proper functioning of roll former and ensure time and diameter setting of roll turner as instructed</p> <p>PC7.collect the wastes produced in the roll former zone and store the waste at respective waste box</p> <p>PC8.ensure uniformity of the sliver otherwise report the Superior (sardar/ superior)</p> <p>PC9.segregate the reusable wastes and weigh and record them in a waste register</p> <p>PC10.transfer the reusable line wastes to the 1st carding/breaker carding machine</p> <p>PC11.ensure that standard feeding procedure for jute card is adopted and quality of joining of jute sliver is good enough and standard, so that no extra non uniformity generated in jute carded sliver</p> <p>PC12.ensure grade/quality wise (with proper colour</p>
	<p>coding) stocking of doffed carded roles at appropriate place for further processing</p> <p>PC13.ensure human safety, fire safety and work place safety while carrying out sliver feeding, joining, picking, jam cleaning activity in card</p>

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	PC14.ensure that sliver tension in the delivery and roll former section is appropriate
	PC15.collect the full jute sliver rolls with proper colour code for feed in the finisher card
	PC16.keep the roll storage area of roll former clean before doffing of the carded sliver rolls (quality wise stacking)
	PC17.keep the breaker card sliver rolls near the finisher card for feeding them in the finisher card in next stage
	PC18.ensure tight packing of the rolls; if not, report to maintenance department for collecting the same
	PC19.ensure that there is no worn out parts in the doffing zone/misalignment in delivery and delivery press rolls
	PC20.ensure proper material handling for moving jute sliver rolls using iron hooks
	PC21.ensure proper picking of all the rollers periodically as instructed
<b>4. TSC/N9009Maintain work area, tools, material handling equipment and machinery for jute processing</b>	PC1.maintain personal hygiene and human safety, machine safety and specific dress code
	PC2.carefully handle raw jute, slivers of jute, jute yarns and fabrics to minimize wastage
	PC3.carefully handle all tools such as hand root cutter, circular blade motorized root cutter, chopper, wooden block, bale hook, rope cutter, picking hook, brooms etc.
	PC4.carefully handle moisture meter
	PC5.carefully handle weigh machine,
	PC6.use proper mechanical handling equipment for lifting and handling jute and other materials
	PC7.keep all waste jute materials in a specified place for further processing
	PC8.maintain a clean and hazard free working area, keeping floors free from all encumbrances
	PC9.maintain tools and equipment being used for jute processing
	PC10.carry out scheduled running maintenance like shift-wise cleaning and oiling in respective jute processing machinery
	PC11.report to supervisor for any abnormal sound, from any machine for jute processing
	PC12.report to supervisor all anomalies and unsafe
	conditions of equipment and other unprecedented occurrences
	PC13.ensure that the doors and covers for gear side/ belt side of the jute machinery are kept properly

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	<p>closed and all machine guards are in appropriate place</p> <p>PC14.ensure that standing place in working position are free from all encumbrances, to maintain correct posture of working/sitting/standing during working in respective jute processing machinery</p> <p>PC15.use appropriate cleaning equipment like knife, brooms, pliers, screw driver etc. and follow appropriate cleaning methods for the work to be carried out in particular jute processing machine</p> <p>PC16.stack/dispose jute fibre/sliver/yarn waste safely in the designated location/place/bag to help usage of all wastages for further processing</p> <p>PC17.store all gadgets, tools and cleaning equipment safely after their use in designated place after cleaning them properly</p> <p>PC18.carry out cleaning and minor/small maintenance jobs for each jute processing machine as per schedule within limits of specific responsibility, as instructed</p>
<b>5.TSC/N9002 Working in a team</b>	<p>PC1.be accountable to the own role in whole process</p> <p>PC2.perform all roles with full responsibility</p> <p>PC3.be effective and efficient at workplace</p> <p>PC4.properly communicate about company policies</p> <p>PC5.report all problems faced during the process</p> <p>PC6.talk politely with other team members and colleagues</p> <p>PC7.submit daily report of own performance</p> <p>PC8.adjust in different work situations</p> <p>PC9.give due importance to others' point of view</p> <p>PC10.avoid conflicting situations</p> <p>PC11.develop new ideas for work procedures</p> <p>PC12.improve upon the existing techniques to increase process efficiency</p>
<b>6.TSC/N9003 Maintain health, safety and security at workplace</b>	<p>PC1.comply with health and safety related instructions applicable to the workplace</p> <p>PC2.use and maintain personal protective equipment such as "ear plug", " nose mask", "head cap" etc., as per protocol</p> <p>PC3.carry out own activities in line with approved guidelines and procedures</p> <p>PC4.maintain a healthy lifestyle and guard against dependency on intoxicants</p>
	<p>PC5.follow environment management system related procedures</p> <p>PC6.identify and correct (if possible) malfunctions in machinery and equipment</p>

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	PC7.report any service malfunctions that cannot be rectified
	PC8.store materials and equipment in line with organisational requirements
	PC9.safely handle and remove waste
	PC10.minimize health and safety risks to self and others due to own actions
	PC11.seek clarifications, from supervisors or other authorized personnel in case of perceived risks
	PC12.monitor the workplace and work processes for potential risks and threat
	PC13.carry out periodic walk-through to keep work area free from all hazards and obstructions
	PC14.report hazards and potential risks/ threats to supervisors or other authorized personnel
	PC15.participate in mock drills/ evacuation procedures organized at the workplace
	PC16.undertake first aid, fire-fighting and emergency response training, if asked to do so
	PC17.take action based on instructions in the event of fire, emergencies or accidents
	PC18.follow organisation procedures for shutdown and evacuation when required
	PC19.identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry
	PC20.recognise other possible security issues existing in the workplace
	PC21.recognise different measures to curb the hazards
	PC22.communicate the safety plan to everyone and
	PC23.attach disciplinary rules with the implementation
<b>7.TSC/N9010 Comply with industry and organizational requirement in jute sector</b>	PC1.perform assigned duties effectively section- wise / machine- wise
	PC2.take full responsibility for desired performance
	PC3.be accountable towards the job role and assigned duties
	PC4.report any anomalies found in the section / machinery to the Sardar (Jobber) or Supervisors
	PC5.take drive on self-learning for improving efficiency
	PC6.co-ordinate with all the team members and
	colleagues
	PC7.communicate politely
	PC8.avoid conflicts and miscommunication

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	<p>PC9.take part in Quality Circle activity to discuss process and innovative ideas in Quality Circle</p> <p>PC10.take all initiative to achieve organisational norms for processing of yarn and fabrics of jute and to motivate all other fellow workers to follow them</p> <p>PC11.implement the collection of wastage in a proper method (as instructed) for further processing</p> <p>PC12.follow specific environmental regulation for jute industry</p> <p>PC13.keep area of work and machine clean</p>
<p><b>Means of assessment 1</b></p>	<p>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.The assessment for the theory part will be based on knowledge bank of questions created by the SSC.</p> <p>Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below.) Wherever the candidate is not educated enough to go for Pen and paper assessments, questions maybe asked verbally and answers are to be marked by assessor.</p> <p>Individual assessment agencies will create unique evaluations for skill practical for every student at each Examination/training centre based on this criteria.</p>
<p><b>Means of assessment 2</b></p>	<p>N.A.</p>
<p><b>Pass/Fail</b></p> <p>To pass the Qualification Pack, every trainee should score a minimum of 70% in aggregate or as specified by the funding scheme.</p> <p>In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.</p>	
<p> Certificate Template.pdf</p>	

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### SECTION 2

#### 25. EVIDENCE OF LEVEL

Title/Name of qualification/Component: Jute Carding Operator		Level Number : 4	
NSQF Domain	Outcomes of the Qualification/ Component	How the outcomes relates to the NSQF Level descriptors	NSQF Level
Process	<p><b><u>Works in familiar, predictable and routine situations of clear choice:</u></b></p> <ul style="list-style-type: none"> <li>• bring the necessary operational tools to the department</li> <li>• check for the availability of the sliver rolls</li> <li>• check whether any spare/raw material/ tool / sliver / any other materials are thrown under the machines or in the other work areas</li> <li>• check the cleanliness of the machines &amp; other work areas</li> <li>• ensure the wastes collection boxes are empty while taking or giving charge of shift</li> <li>• start the machine</li> <li>• follow the different signal lamps used in machines</li> <li>• piece the sliver during breakage</li> <li>• ensure the card is running in set speed</li> <li>• store defective material in non-conformity area</li> <li>• segregate the wastes collected and deposit at the waste bins</li> </ul>	<p>A Carding operator works in familiar, <b>work environment</b> with predictable and routine work environment of a typical Jute mill. He gets work allotted by his supervisor and is responsible for maintaining the Card working efficiently so as to get maximum output with minimum defects, as per schedule, giving due importance to safety and environment aspects in a <b>familiar work environment. The activities involved are familiar, routine and offer situations of clear choice</b> like maintaining uniform feeding, root cutting, identification of defects on jute, identifying and repairing minor defects on the machine-like missing pin, gulping of jute fiber, worn out calendar roller, roll former defects, missing selvedge plate, fibre dropping due to misalignment of rollers etc. This operator knows about the causes which may result in machine faults and irregular sliver and carries out <b>routine</b> cleaning and maintenance of the machine within his limits of responsibility to</p>	4

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	<ul style="list-style-type: none"> <li>• support the mechanic while carryout cleaning maintenance activities</li> <li>• ensure the weight variation of sliver within the limits and if it is abnormal report it to superiors</li> <li>• ensure proper material handling of jute, sliver and sliver rolls</li> <li>• ensure using proper material handling of tools and equipments</li> <li>• ensure that machine is always working properly, if any deviations inform superiors immediately</li> <li>• open the cover of the doffing zone of card and clear the doffer for proper sliver delivery</li> <li>• collect the waste from shrouding plate zone</li> <li>• keep the roll storage area of roll former clean before doffing of rolls</li> <li>• move the sliver roll to storage area</li> </ul>	<p>ensure that quality and productivity is maintained.</p> <p>Hence NSQF Level is 4</p>	
Professional Knowledge	<p><b><u>Factual knowledge of the field of knowledge or study:</u></b></p> <ul style="list-style-type: none"> <li>• standard operating procedures (SOP) and regulations in a spinning/ Jute mill</li> <li>• safe working practices to be adopted in spinning / Jute mill</li> <li>• quality systems and other processes practiced in the spinning/ Jute mill</li> <li>• color coding adopted for different counts in the spinning / Jute mill</li> <li>• the importance of types of fibres, types of defects in sliver</li> </ul>	<p>A Carding operator needs to have the Factual knowledge about Standard Operating Procedures, quality systems and safe working practices with respect to process flow and material flow in a typical jute mill and Jute Carding Machine in particular . He also needs to know about importance of types of natural and manmade fibres, blends, types of sliver defects in carding, parts of Carding machine and settings for different types of feeding. He should also know whether the causes of a sliver defect is due to man or machine and</p>	4

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	<ul style="list-style-type: none"> <li>• functions and methodology for operating different material</li> <li>• handling tools</li> <li>• safety procedures to be followed in carding machine</li> <li>• the importance of fibers, types of yarn, yarn count, types of sliver, sliver hank, importance of sliver and roving quality</li> <li>• process flow and material flow in textile spinning / textile mill</li> <li>• functions of control switches and signal lamps in carding</li> <li>• functions of different signal lamps in card</li> <li>• effects of contamination on products i.e. machine oil, dirt, foreign materials</li> <li>• process flow in a textile mill and the concerned workers</li> <li>• material flow in a textile mill and the required person</li> <li>• potential accidents and emergencies and response to these scenarios</li> <li>• ill-effects of alcohol, tobacco and drugs</li> </ul>	<p>have the ability to identify and rectify minor defects. The Carding machine operator needs to be aware of importance of sliver quality, <b>and have factual knowledge</b> about safety mechanisms of the machines, stop motions and indication lamps. Hence NSQF Level is 4</p>	
Professional Skill	<p><b><u>Recall and demonstrate practical skill, routine and repetitive in narrow range of application, using appropriate rule and tool, using quality concepts:</u></b></p> <ul style="list-style-type: none"> <li>• bring the necessary operational tools to the department</li> <li>• ensure the technical details are mentioned on the display board in the card</li> </ul>	<p>A Carding operator recalls and demonstrates practical skills to take charge of the shift from the previous Carding Operator, start the machine, check for necessary tools, technical details and availability of sliver rolls, operates the machine, pieces the broken sliver, ensures proper waste disposal and maintains routine cleanliness and performs minor routine</p>	4

## NSQF QUALIFICATION FILE

	<ul style="list-style-type: none"><li>• check for the availability of the sliver rolls</li><li>• check whether any spare/raw material/ tool / sliver / any other materials are thrown under the machines or in the other work areas</li><li>• ensure the wastes collection boxes are empty while taking or giving charge of shift</li><li>• take over the shift from the outgoing shift operator in a proper manner</li><li>• start the machine</li><li>• operate the control switches for starting and stopping the card</li><li>• piece the sliver during breakage</li><li>• ensure the working area is clean</li><li>• support the mechanic while carryout cleaning maintenance activities</li><li>• segregate the wastes collected and deposit at the waste bins</li><li>• collect the reusable wastes in card and weigh them at shift end and place them in specified area</li><li>• open the cover of the doffing zone of card and clear the doffer for proper sliver delivery</li><li>• collect the waste from shrouding plate zone</li><li>• keep the feed zone of finisher card freed from any defects</li><li>• ensure proper pressure of the rolls</li><li>• move the sliver roll to storage area</li><li>• ensure proper material handling of jute, sliver, sliver rolls</li></ul>	<p>maintenance. He also recalls and demonstrates practical skills to handover the shift to the next operator and report discrepancies to the supervisor. He is responsible for maintaining production, efficiency and quality at the machine within limits of his own responsibility. Ensures maximum utilization and minimum wastage of sliver and minimum machine breakdown time.</p> <p><b><i>Demonstrates repetitive skills</i></b> like procedures for operating different material handling tools and Equipment in a <b><i>narrow range of application.</i></b></p> <p>Hence NSQF Level is 4</p>	
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## NSQF QUALIFICATION FILE

<p>Core Skill</p>	<p><b><u>Language to communicate written or oral, with required clarity, skill to basic arithmetic and algebraic principles:</u></b></p> <ul style="list-style-type: none"> <li>• understand the sliver quality, colour coding, followed in the carding for his allocated number of machines</li> <li>• ensure the technical details are mentioned on the display board in the card</li> <li>• understand color coding adopted for different counts in the spinning / Jute mill</li> <li>• write clear and short sentences</li> <li>• read, write and communicate orally in local language</li> <li>• plan and manage work routine based on instructions from supervisor</li> <li>• Communicate effectively in simple language</li> <li>• communicate with supervisor appropriately</li> <li>• talk to others to convey information effectively</li> <li>•</li> <li>• write daily work report</li> <li>• write grievance complaint application</li> <li>• respond to emergencies, accidents or fire at the workplace</li> <li>• evacuate the premises and help others in need while doing so</li> </ul>	<p>A Carding operator able to <b><i>convey clear and short sentences, writes daily work report</i></b>, able to read, write and communicate effectively in local language, follow written instructions, and report defects to the supervisor. He should demonstrate skills to convey information to others and seeks clarification on problems effectively. He should have skills to write daily work report and submit grievance complaints. Applies <b><i>basic arithmetic and algebraic functions</i></b> in different situations like calaulating pressuer of the rolls, weighing reusable waste, segregating it and storing it at designated place as also calculations to ensure weight variation of the slivers wihin specified limits during the production process for quality and uninterrupted output. He understand the social <b><i>political and natural</i></b> environment. of a typical Jute mill Hence NSQF Level is 4</p>	<p>4</p>
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## NSQF QUALIFICATION FILE

	<ul style="list-style-type: none"> <li>• collect the reusable wastes in card and weigh them at shift end and place them in specified area</li> <li>• ensure the weight variation of sliver within the limits and if it is abnormal report it to superiors</li> <li>• segregate the reusable wastes and weigh and record them in a register</li> </ul>		
Responsibility	<p><b><u>Responsibility for own work and learning:</u></b></p> <ul style="list-style-type: none"> <li>• bring the necessary operational tools to the department</li> <li>• check for the availability of the feed material</li> <li>• check the cleanliness of the machines &amp; other work areas</li> <li>• report to the supervisor or higher authority in case of emergency</li> <li>• Prepare the machine for operation</li> <li>• operate the control switches for starting and stopping the card</li> <li>• store defective material in non-conformity area</li> <li>• Identify and report the defective feed material</li> <li>• clean the wastes in the carding department as per schedule</li> <li>• inform the supervisor and maintenance in charge in case of a jam</li> </ul>	<p>A Carding operator is responsible for taking charge of the shift after discussing in detail the issues faced with respect to the quality, production and safety, bring necessary operational tools to the department, start and operate the machine, check and correct defects, carry out minor maintenance, report issues to the shift superior, maintain work area, tools and machines and contribute in making the workplace healthy, safe and secure and handing over shift, while following the industry &amp; organizational standards. He is <b>responsible</b> for his own work and learning.</p> <p>Hence NSQF Level is 4</p>	4

## NSQF QUALIFICATION FILE

	<ul style="list-style-type: none"><li>• collect the wastes during process and store the waste at respective waste box`</li><li>• keep the roll storage area of roll former clean before doffing of rolls</li><li>• keep the feed zone of finisher card freed from any defects</li><li>• move the sliver roll to storage area</li></ul>		
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## NSQF QUALIFICATION FILE

### SECTION 3

#### EVIDENCE OF NEED

26	Basic uptake of Estimate?	<p>What evidence is there that the qualification is needed? What is this qualification and what is the basis of this</p> <p style="text-align: center;"><b>In case of SSC</b></p>	In case of other Awarding Bodies (Institutes under Central Ministries and states departments)
	Need of the Qualification	<p>The percentage requirement of skilled manpower requirement and the available man power requirement in the leading jute mills are attached below,</p> <p style="text-align: center;">             Interaction with Stake Holder.pdf         </p>	<p>The Qualification Pack approval letter from Indian Jute Mills Association and Jute Commissioner is given below,</p> <p style="text-align: center;">             QP Approval Letter from Office of IJMA         </p>
	Industry Relevance	<p>Validations for the QP development given below,</p> <p style="text-align: center;">             Checking of QPs for jute mill workers.pdf         </p>	<p>The Institute of Jute Technology engaged for QP development, curriculum and content preparation is given in the TSC Technical Committee meeting.</p> <p style="text-align: center;">             Approval of NOS Sub committee on N         </p>
	Usage of the qualification	No existing qualification available in National Qualification Registry related this qualification	No existing qualification available in National Qualification Registry related to this qualification

## NSQF QUALIFICATION FILE

	Estimated uptake	The Skill Gap report for Textile sector given in <a href="#">Annexure 3</a>	
27	<p><b>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences</b></p> <div style="text-align: center;">  <p>Jute QP Recommendation fr</p> </div>		
28	<p><b>What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification</b></p> <p>QPs for Job Roles of various related SSC's and courses on NQR proposed by line ministry were studied to ensure that there is no duplicity.</p>		
29	<p><b>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? Specify the review process here</b></p> <p>The comments, feedback and suggestions were collected through interaction with industry during September 15 to April 16. The same has been complied and justifiable change has been incorporated in this version of the QP. This QP is also set to be revised, if necessary, by 09<sup>th</sup>August 2022.</p>		

Relevant and recent documents giving further information about any of the topics above.

1. Skill gap report for Textile (Jute) Sector – [Annexure-3](#)

## NSQF QUALIFICATION FILE

### SECTION 4

#### EVIDENCE OF PROGRESSION

30	<p><b>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?</b></p> <p><b>Show the career map here to reflect the clear progression</b></p> <p>Please refer to attached career path as per <a href="#">Annexure 1</a> which clearly defines the career path.</p>
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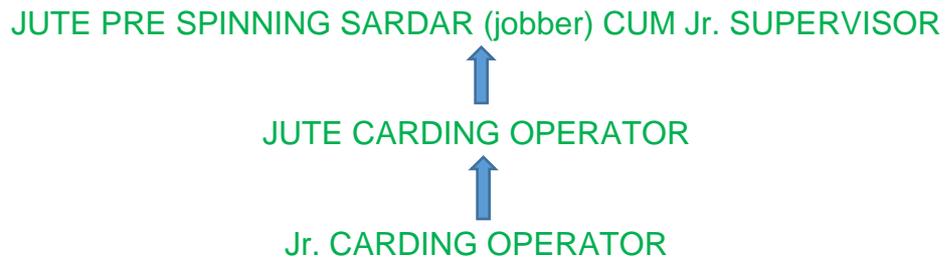
Relevant and recent documents giving further information about any of the topics above.

## NSQF QUALIFICATION FILE

### Annexure 1

#### Career Map

The Career Progression would be as follows:



### Annexure 2

**QP Name – Jute Carding Operator**



TSCQ0108\_Jute  
Carding Operator\_v

**QP reference ID- TSC/Q0108 (click on the icon to view the QP)**

### Annexure 3

**Click the link - Skill Requirements in Jute Sector.**



Jute Skill Gap  
report.pdf

Skill gap report for Jute Sector

## NSQF QUALIFICATION FILE

### Annexure 4

Click on the icon to view – Protocol-for-Accreditation-of-Assessment-  
Agencies-and-  
Assessment-Framework



protocol.pdf

### Annexure 5

TP affiliation procedure and norms



TP affiliation  
Norms.pdf