

Revised Application Documentation: Revision made by NSDA\_25 May 2015

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

**Name and address of submitting body:**

**Textile & Handloom Sector Skill Council**

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**Name and contact details of individual dealing with the submission**

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**Position in the organisation: Director**

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

1. Career Map of Automatic Shuttle Loom Operator- Annexure 1
2. QP TSC/Q 2201 – Annexure 2
3. Format for EOI for AA Accreditation from TSC - Annexure 3
4. Protocol for Accreditation of Assessment Agencies and Assessment Framework – Annexure 4
5. Skill gap report for textile sector\_2008-2022– Annexure 5

## QUALIFICATION FILE SECTION 1

### SUMMARY

Qualification Title	TSC/Q 2201 - Automatic Shuttle Loom Operator
Body/bodies which will assess candidates	<ul style="list-style-type: none"> <li>• Trendsetters Skill, Gurgaon</li> <li>• Mettl, Gurgaon</li> <li>• Base Research, Bhopal</li> <li>• Eduworld Consultants Bigskillindia, Mohali</li> <li>• Merittrac</li> <li>• C.K.Skills</li> <li>• India Skills Pvt. Ltd., New Delhi</li> <li>• Growwell Fincon, Hyderabad</li> <li>• Aspiring Minds, Gurgaon</li> </ul>
Body/bodies which will award the certificate for the qualification:	Textile & Handloom Sector Skill Council (TSC)
Body which will accredit providers to offer the qualification.	Textile & Handloom Sector Skill Council (TSC)
Occupation(s) to which the qualification gives access	Automatic Shuttle Loom Operator
Proposed level of the qualification in the NSQF.	<b>Level – 4</b>
Anticipated volume of training/learning required to complete the qualification.	208 Hours
Entry requirements / recommendations.	Preferable Qualification shall be 10 <sup>th</sup> Pass with 1-2 years' experience in a Textile Mill.
Minimum age	14 Years
Progression from the qualification.	Production Supervisor
Planned arrangements for RPL.	<p>TSC is working along with textile industry for skill profiling of the existing work force in the industry. Arrangements and process guidelines are under development.</p> <p>The process and guidelines will take time to evolve as NSDC is yet to notify its guidelines on the same and once the requisite guidelines are shared, TSC shall prepare on the same lines.</p>
International comparability where known.	<p>Attempt was made to understand the international standards followed under this qualification pack. The principles of the European, Australian and Canadian NOSs were followed but there was no exact qualification pack found for Automatic Shuttle Loom Operator. Canadian NOS covers in parts Textile Industry but Automatic Shuttle Loom Operator has not been kept as a different job role. It is important to note that most of these countries who have defined NOS do not have a very large textile industry.</p> <p>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</p>

The source of this comparison has been based on the desk research and TSC would undertake evaluation of the same through other suggested modes.

<b>Formal structure of the qualification</b>			
<b>Title of unit or other component</b> (include any identification code used)	<b>Mandatory/ Optional</b>	<b>Estimated size (learning hours)</b>	<b>Level</b>
TSC/ N2201 Taking charge of shift and handing over shift to Automatic Shuttle Loom Operator	Mandatory	44	4
TSC/N2202 Running automatic shuttle loom	Mandatory	94	4
TSC/N9001 Maintain work area, tools and machines	Mandatory	14	4
TSC/ N9002 Working in a team	Mandatory	14	4
TSC/N9003 Maintain health, safety and security at workplace	Mandatory	28	4
TSC/N9004 Comply with industry and organizational requirement	Mandatory	14	4

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

Give details of the document here:

1. QP TSC/Q 2201 – Annexure 2

## QUALIFICATION FILE SECTION 1

### ASSESSMENT

#### **Body or Bodies which will carry out assessment:**

- a) Trendsetters Skill, Gurgaon
- b) Mettl, Gurgaon
- c) Base Research, Bhopal
- d) Eduworld Consultants Bigskillindia, Mohali
- e) Merittrac
- f) C.K.Skills
- g) India Skills Pvt. Ltd., New Delhi
- h) Growwell Fincon, Hyderabad
- i) Aspiring Minds, Gurgaon

These assessing agencies 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 assessments for other SSCs in the past and have presented their assessment methodology that details the assessor identification methodology. The assessing Agencies were relatively graded and then those which qualified were allotted regions. The exercise was done by C3A- committee for Affiliation, Accreditation and Assessment comprising of industry experts.

#### **Will the assessment body be responsible for RPL assessment?**

Yes the assessment body shall be responsible for RPL assessment.

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:

- formal training
- work experience
- life experiences

The focus of RPL is the competence gained from these experiences; not how, when or where the learning occurred.

Process or steps in RPL assessments

1. Offering RPL to potential candidates
2. Providing information to the candidate
3. Self-assessment
4. Evidence collation
5. Assessment and making the decision
6. Feedback to the candidate
7. Documentation of outcomes

**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:**

- a) The emphasis is on 'learning-by-doing' and practical demonstration of skills and knowledge based on the performance criteria.
- b) The assessment papers are developed by Subject Matter Experts (SME) available with the Assessment Agency as per the performance and assessment criteria mentioned in the Qualification Packs.
- c) The assessments papers are also checked for the various outcome based parameters such as quality, time taken, precision, tools & equipment requirement, etc.
- d) The assessments are designed so as to assess maximum parts during the practical hands on

work. Duties and responsibility of an Automatic Shuttle Loom Operator are also assessed. The technical limitations at the training centres are taken care in theory and viva.

- e) The assessment agencies are instructed to hire assessors with 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.
- f) The assessment agencies are instructed to ideally have assessor with right mix of industry experience, academia and these are detailed in Assessment Agency Protocol
- 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.
- h) The assessors are provided with assessors guide developed by the Subject Matter Expert of the assessment agency or by TSC as per the assessment framework. The assessment guides are developed to ensure the maximum possible consistency / transparency in the assessment by different assessors and elaborate on the following
  1. Qualification Pack Structure
  2. Guidance for the assessor 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 assessments process, practical brief with steps of operations 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 evidences collected by assessors.

1. The assessor needs to collect a copy of the attendance 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 assessor needs 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 needs to be mentioned in the attendance sheet. In case of suspicion, the assessor should authenticate and cross verify trainee's credentials in the enrolment form.
3. The assessor needs to take a photograph of all the students along with the centre name/ banner at the back as evidence.
4. The assessor needs to carry a camera to click photograph of the trainees working on the job and giving theory exam as evidence.
5. The assessor also needs to carry a photo ID card.
6. The assessor also needs to take the photographs as evidence from appropriate angles/ sides of the final work piece/job submitted by the trainee.
7. The details on assessment framework are elaborated in TSC Protocol for Accreditation of Assessment Agencies and Assessment Framework.

All accredited Assessment Agency follow the "TSC 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 Performance Criteria in the NOS will be assigned marks for or practical based on relative importance, criticality of function and training infrastructure.

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

Give details of the document(s) here:

1. Format for EOI for AA Accreditation from TSC - Annexure 3
2. Protocol for Accreditation of Assessment Agencies and Assessment Framework – Annexure 4

## ASSESSMENT EVIDENCE

Complete a 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.

**Title of NOS/Unit/Component 1:** TSC/N2201: Taking charge of shift and handing over shift to

Automatic Shuttle Loom Operator

<b>Job Role: Automatic Shuttle Loom Operator</b> <b>Qualification Pack: TSC/Q 2201</b> <b>Sector Skill Council: Textile &amp; Handloom Sector Skill Council</b>						
<b>Guidelines for assessment: -</b> 1. Criteria for assessment for each qualification pack will be created by the Sector Skill Council. Each performance criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for theory & skill practical for each PC. 2. The assessment for the theory part will be based on knowledge bank of question created by the SSC. 3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below) 4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on these criteria. 5. To pass the qualification pack, every trainee should score a minimum of 80%. 6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack						
National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Skills Practical	Theory	Viva
<b>1. TSC/ N2201</b> <b>Taking charge of shift and handing over shift to Automatic Shuttle Loom Operator</b>	PC1. Come at least 10 - 15 minutes earlier to the work spot	<b>160</b>	12	12	0	0
	PC2. bring the necessary operational tools like " weavers' hook", " knife" etc.		12	6	6	0
	PC3. . Meet the previous shift warper , discuss with him/ her regarding the issues faced by them with respect to the quality or production or spare or safety or any other specific instruction etc.		12	6	3	3
	PC4. check for the availability of the weft & the condition of the same		12	6	3	3
	PC5. check the condition of the running beams , for cross ends, ends pulling out particularly at the selvedge		12	8	4	0

PC6. check the availability of the " thrums" , quality & condition of the same	<b>10</b>	<b>8</b>	<b>2</b>	<b>0</b>
PC7. check the cloth for the running damages like end out, wrong drawing, wring denting, double end, reed mark, temple cut/ temple mark, let- off mark, take up fault, oil stain, hole, cloth torn, weft catching, weft lashing in etc.	<b>10</b>	<b>6</b>	<b>4</b>	<b>0</b>
PC8. check for the size of the cloth rolls & to see whether any indication is there in the cloth rolls	<b>12</b>	<b>8</b>	<b>2</b>	<b>2</b>
PC9. check the cleanliness of the machines & other work areas	<b>10</b>	<b>4</b>	<b>3</b>	<b>3</b>
PC10. Check whether any spare/raw material/ tool / fabric/ any other material are thrown under the machines or in the other work areas.	<b>10</b>	<b>6</b>	<b>2</b>	<b>2</b>
PC11. Question the previous shift weaver for any deviation in the above and should bring the same to the knowledge of his/ her shift superior as well that of the previous shift as well.	<b>12</b>	<b>8</b>	<b>2</b>	<b>2</b>
PC12. hand over the shift to the incoming weaver in a proper manner & get clearance from the incoming counterpart before leaving the work spot	<b>12</b>	<b>8</b>	<b>3</b>	<b>1</b>
PC13. Report to his/ her shift superiors as well as that of the incoming shift, in case his/ her counterpart doesn't report for the incoming shift. in that case, the shift has to be properly handed over to the incoming shift superior & get clearance from him/ her, before leaving the work spot	<b>12</b>	<b>8</b>	<b>3</b>	<b>1</b>
PC14. report to his/ her shift superior about the quality / production / safety issues/ any other issue faced in his/ her shift and should leave the department only after getting concurrence for the same from his/ her superiors	<b>12</b>	<b>6</b>	<b>3</b>	<b>3</b>

			<b>160</b>	<b>100</b>	<b>40</b>	<b>20</b>
	<b>Total</b>	<b>Weightage %</b>	19%	76%	5%	
<b>2. TSC/N2202 Running automatic shuttle loom</b>	PC1. Make tiny & firm warper's knots	<b>340</b>	<b>8</b>	<b>6</b>	<b>2</b>	<b>0</b>
	PC2. find out broken warp ends		<b>8</b>	<b>8</b>	<b>0</b>	<b>0</b>
	PC3. Find out the location of the broken end, by bringing the hands under the dropper bars, with mechanical droppers.		<b>8</b>	<b>8</b>	<b>0</b>	<b>0</b>
	PC4. detect the location using the indication lamp & by bringing the hands over the droppers, with electrical warp stop motion		<b>8</b>	<b>5</b>	<b>3</b>	<b>0</b>
	PC5. mend the broken warp end in the sized beams with the thrums of the same count of the sized beams, using " weavers ' knots"		<b>8</b>	<b>5</b>	<b>3</b>	<b>0</b>
	PC6. draw the mended warp yarn through the healds properly ,as per the drawing order prescribed		<b>8</b>	<b>4</b>	<b>2</b>	<b>2</b>
	PC7. draw the mended warp yarn through the reed dent, properly, as per the denting order prescribed		<b>10</b>	<b>5</b>	<b>5</b>	<b>0</b>
	PC8. see that the sley has been brought to the back centre		<b>8</b>	<b>3</b>	<b>3</b>	<b>2</b>
	PC9. see that the shuttle is inserted fully in the shuttle box		<b>10</b>	<b>4</b>	<b>3</b>	<b>3</b>
	PC10. run the loom by pulling the starting handle with full torque		<b>8</b>	<b>4</b>	<b>2</b>	<b>2</b>
	PC11. see that the sley has to be brought the back centre		<b>8</b>	<b>6</b>	<b>0</b>	<b>2</b>
	PC12. take out shuttle from shuttle box		<b>8</b>	<b>4</b>	<b>2</b>	<b>2</b>
	PC13. do pick finding		<b>8</b>	<b>6</b>	<b>0</b>	<b>2</b>
	PC14. find out the last pick inserted in the produced cloth		<b>8</b>	<b>6</b>	<b>2</b>	<b>0</b>
	PC15. tie sley to the back centre, after doing the pick finding		<b>8</b>	<b>6</b>	<b>2</b>	<b>0</b>
	PC16. insert shuttle into the correct box as per the pick finding done		<b>8</b>	<b>8</b>	<b>0</b>	<b>0</b>
	PC17. see that the shuttle is inserted fully in the shuttle box		<b>8</b>	<b>8</b>	<b>0</b>	<b>0</b>



PC18. Bring the loom to the front centre to see that there is no gap between the reed & the fell of the cloth. accordingly take up should be adjusted	<b>8</b>	<b>4</b>	<b>4</b>	<b>0</b>
PC19. bring back sley to centre	<b>8</b>	<b>4</b>	<b>4</b>	<b>0</b>
PC20. see that the shuttle is inserted fully in the shuttle box	<b>8</b>	<b>4</b>	<b>2</b>	<b>2</b>
PC21. run the loom by pulling the starting handle with full to	<b>8</b>	<b>4</b>	<b>2</b>	<b>2</b>
PC22. pull about 2 meters of weft in the pirns in the right hand & hold around 4 - 5 pirns at a time in the left hand	<b>8</b>	<b>4</b>	<b>2</b>	<b>2</b>
PC23. Press the pirn head of the pirns in space in the battery disc one by one and press the tips of the pirns in the aligned path of the pirn holders, then wind the pirn threads in the battery umbrella, anti-clock wise.	<b>8</b>	<b>4</b>	<b>2</b>	<b>2</b>
PC24. Correct the fabric defects like wrong drawing, wrong denting, end out, double end etc., immediately and also ensure that the other fabric defects too are corrected at the earliest, before continuing further production.	<b>8</b>	<b>4</b>	<b>2</b>	<b>2</b>
PC25. clean the machines & work area, so as to ensure good working atmosphere, without damaging the fabrics in the looms where the cleaning work is carried out as well as in the adjacent & opposite looms . Should not misuse "air". can use air for cleaning, only in the areas, where it is allowed	<b>8</b>	<b>4</b>	<b>2</b>	<b>2</b>
PC26. " unweave " the same in case of any floats	<b>8</b>	<b>4</b>	<b>2</b>	<b>2</b>
PC27. run the machine without " starting mark or crack"	<b>8</b>	<b>4</b>	<b>2</b>	<b>2</b>
PC28. Ensure that the loose threads are hanged in higher length (not more than 4 mm). Accordingly, and trimmed, after attending to the warp breaks.	<b>8</b>	<b>4</b>	<b>2</b>	<b>2</b>
PC29. patrol the machines and do mending so as to minimize the stoppages	<b>8</b>	<b>4</b>	<b>4</b>	<b>0</b>

PC30. Tie the "waist bag" & all the waste generated by the weavers are collected in the said waist bag, which can be ultimately disposed in the places/ bins provided, at the end of the shift.	<b>8</b>	<b>3</b>	<b>5</b>	<b>0</b>
PC31. ensure that the correct weft yarn, as per the "loom card" only is used	<b>8</b>	<b>3</b>	<b>5</b>	<b>0</b>
PC32. See that the weft yarn is completely used, without giving room for additional wastage of raw materials. For any quality issue or defective cone etc., the same has to be brought to the notice of the superiors.	<b>8</b>	<b>2</b>	<b>6</b>	<b>0</b>
PC33. Avoid pulling out warp ends unnecessarily. if end is getting cut often in the selvedge , the same has to be brought to the notice of the mechanics/ fitters/ superiors & get it corrected	<b>8</b>	<b>4</b>	<b>4</b>	<b>0</b>
PC34. ensure that all the stop motions, preventive mechanisms etc., function properly	<b>8</b>	<b>3</b>	<b>5</b>	<b>0</b>
PC35. ensure correct quality of thrums are there & see that the same are properly tied	<b>8</b>	<b>3</b>	<b>5</b>	<b>0</b>
PC36. check the knotted loom for knotting quality etc. double ends have to be removed should report to superiors for any deviation in the same & for any other quality issue	<b>8</b>	<b>1</b>	<b>6</b>	<b>1</b>
PC37. ensure that his/ her looms are stopped for a minimum possible down time due to whatever reason & see that he/ she gets maximum outputs in his/ her shift	<b>8</b>	<b>1</b>	<b>6</b>	<b>1</b>
PC38. check the fabrics for the defects at least twice in a shift and sign on the cloth in both times	<b>8</b>	<b>4</b>	<b>4</b>	<b>0</b>
PC39. ensure that cloth rolls are doffed whenever/ wherever necessary	<b>8</b>	<b>4</b>	<b>4</b>	<b>0</b>

	PC40. Give preference to safety. Should not enter the area, where he/ she are not allowed. should not do a job in which training has not being given		8	4	2	2
	PC41. Ensure that no raw material/ cloth/ spare/ tool / any other material is thrown under/ near the machines or in the other work areas.		8	3	3	2
	PC42. Check for the reasons for the frequent warp/ weft breaks. The reasons that could be corrected by him/ herself should be corrected. otherwise, the same has to be reported to the mechanics/ fitters/ superiors		8	3	3	2
			340	182	117	41
	<b>Total</b>	<b>Weightage %</b>		<b>54%</b>	<b>34%</b>	<b>12%</b>
<b>3. TSC/ N9001 Maintain work area, tools and machines</b>						
	PC1. Handle materials, machinery, equipment and tools safely and correctly	<b>50</b>	4	1	2	1
	PC2. Use correct lifting and handling procedures		4	1	2	1
	PC3. Use materials to minimize waste		3	1	1	1
	PC4. Maintain a clean and hazard free working area		3	1	1	1
	PC5. Maintain tools and equipment		4	2	1	1
	PC6. Carry out running maintenance within agreed schedules		4	1	2	1
	PC7. Carry out maintenance and/or cleaning within one's responsibility		4	1	2	1
	PC8. Report unsafe equipment and other dangerous occurrences		4	1	2	1
	PC9. Ensure that the correct machine guards are in place		3	1	1	1
	PC10. Work in a comfortable position with the correct posture		3	1	1	1
	PC11. Use cleaning equipment and methods appropriate for the work to be carried out		3	1	1	1
	PC12. Dispose of waste safely in the designated location		4	1	2	1
	PC13. Store cleaning equipment		3	1	1	1

	safely after use					
	PC14. Carry out cleaning according to schedules and limits of responsibility		4	1	2	1
			50	15	21	14
	<b>Total</b>	<b>Weightage %</b>		<b>30%</b>	<b>42%</b>	<b>28%</b>
<b>4.TSC/ N9002 Working in a team</b>						
	PC1. be accountable to the own role in whole process	<b>50</b>	5	3	1	1
	PC2. perform all roles with full responsibility		4	2	1	1
	PC3. be effective and efficient at workplace		4	1	2	1
	PC4. properly communicate about company policies		4	1	1	2
	PC5. report all problems faced during the process		4	1	1	2
	PC6. talk politely with other team members and colleagues		4	1	1	2
	PC7. submit daily report of own performance		5	2	2	1
	PC8. adjust in different work situations		4	2	1	1
	PC9. give due importance to others' point of view		4	1	1	2
	PC10. avoid conflicting situations		4	1	2	1
	PC11. develop new ideas for work procedures		4	1	2	1
	PC12. improve upon the existing techniques to increase process efficiency		4	1	2	1
			50	17	17	16
	<b>Total</b>	<b>Weightage %</b>		<b>34%</b>	<b>34%</b>	<b>32%</b>
<b>5. TSC/ N9003 Maintain health, safety and security at workplace</b>						
	PC1. Comply with health and safety related instructions applicable to the workplace	<b>100</b>	5	2	2	1
	PC2. Use and maintain personal protective equipment as per protocol		5	2	2	1
	PC3. Carry out own activities in line with approved guidelines and procedures		4	2	1	1
	PC4. Maintain a healthy lifestyle and guard against dependency on intoxicants		4	2	1	1
	PC5. Follow environment management system related		4	2	1	1

	procedures				
	PC6. Identify and correct (if possible) malfunctions in machinery and equipment	5	2	2	1
	PC7. Report any service malfunctions that cannot be rectified	4	2	1	1
	PC8. Store materials and equipment in line with manufacturer's and organizational requirements	4	1	2	1
	PC9. Safely handle and move waste and debris	4	1	2	1
	PC10. Minimize health and safety risks to self and others due to own actions	5	2	2	1
	PC11. Seek clarifications, from supervisors or other authorized personnel in case of perceived risks	4	2	0	2
	PC12. Monitor the workplace and work processes for potential risks and threats	5	2	2	1
	PC13. Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned	5	2	2	1
	PC14. Report hazards and potential risks/ threats to supervisors or other authorized personnel	4	1	2	1
	PC15. Participate in mock drills/ evacuation procedures organized at the workplace	4	2	2	0
	PC16. Undertake first aid, fire-fighting and emergency response training, if asked to do so	5	2	2	1
	PC17. Take action based on instructions in the event of fire, emergencies or accidents	5	2	2	1
	PC18. Follow organization procedures for shutdown and evacuation when required	4	2	1	1
	PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry	4	2	1	1
	PC20. recognize other possible security issues existing in the workplace	4	2	1	1
	PC21. recognize different	4	2	1	1

	measures to curb the hazards					
	PC22. communicate the safety plan to everyone		4	2	1	1
	PC23. attach disciplinary rules with the implementation		4	2	1	1
			100	43	34	23
	<b>Total</b>	<b>Weightage %</b>		<b>43%</b>	<b>34%</b>	<b>23%</b>
<b>6. TSC/ N9004 Comply with industry and organizational requirements</b>						
	PC1. perform own duties effectively	<b>50</b>	4	1	2	1
	PC2. take responsibility for own actions		4	1	2	1
	PC3. be accountable towards the job role and assigned duties		4	2	1	1
	PC4. take initiative and innovate the existing methods		3	1	1	1
	PC5. focus on self-learning and improvement		4	1	2	1
	PC6. co-ordinate with all the team members and colleagues		4	1	2	1
	PC7. communicate politely		4	1	1	2
	PC8. avoid conflicts and miscommunication		4	1	2	1
	PC9. know the organizational standards		4	2	1	1
	PC10. implement them in your performance		4	1	2	1
	PC11. motivate others to follow them		3	1	1	1
	PC12. know the industry standards		4	3	1	0
	PC13. align them with organization standards		4	2	1	1
			50	18	19	13
	<b>Total</b>	<b>Weightage %</b>		<b>36%</b>	<b>38%</b>	<b>26%</b>
	<b>Total</b>		750	375	248	127
<b>Grand Total</b>			<b>750</b>			

## **SECTION 2**

### **EVIDENCE OF NEED**

#### **What evidence is there that the qualification is needed?**

Please refer to the attached list of job roles and occupations as per the attachment and their career paths as per Annexure 1, which have been derived through extensive industry interactions facilitated from 20 workshops, 25 emails and 135 visits /one-on-one discussion conducted and interaction with 1000 representatives from different organizations all over the country. 15 Large scale industries, 12 Medium Size industries and 27 small industries were involved in the validation process to make the Qualification Packs viable to the current industry requirements.

#### **List of industries involved in the Validation process for the QP – Automatic Shuttle loom operator:**

<b>S No.</b>	<b>Large scale industries</b>	<b>Medium scale industries</b>	<b>Small scale industries</b>
1.	Annur Cotton Mills	M.K. Tex	Shree Selva Nayagi Tex
2.	KCM Textiles	Muthu Tex	Sri Parghavi Mills
3.	Somanur Sizing Mills	Nature Mills	Vertex Impex
4.	Arvind Limited	United Weaves	Atharva Textile
5.	Naren Textiles	Paras Ram Weaving	Ganesh Weaving Mills
6.	Sri Ambika Sizing Mills	Balaji Textile	Ganga Textile
7.	Etco Denim	Kale Textile	Ganraj Textile
8.	Welspun	Mayur Manoj Textile	Mahesh Textile
9.	Vardhaman	Srivithal Textile	Mauli Textile
10.	National Industries Development Co-operative Federation Ltd.	Sunil Textile	Narmada Textile
11.	BKS Textiles	Srivanth Tex	Pallavi Weaving
12.	Kadri Wovens	Unifab Textcot	Rucha Weaving
13.	Trident Group		Salasar Textile
14.	Mafatlal Industries Ltd.		Sarvadnya Weaving
15.	VSM Weaves India Ltd.		Shamina Textile
16.			Shridhar Weaving
17.			Tuljai Textile
18.			Vikram Fabrics
19.			Yukta Textile
20.			Bhuwaneshwar Powerlooms

21.		Dwarka Powerlooms Udyog
22.		Indradev Textiles
23.		Md. Salam Mistri
24.		Md. Shehjad & Co.
25.		Pawan Textiles
26.		Shankar Textiles
27.		Ruby Textiles

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

The incremental Manpower Gap between 2008 and 2022 is 285767 under Automatic Shuttle Loom Operator. This estimate has been drawn on basis of the NSDC report on skill requirement in Textiles & Clothing Sector (2013-2017, 2017-2022) and employee strength data collected during industry validation process. Refer Annexure 5.

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

QPs for Job Roles of various related SSC's were studied to ensure that there is no duplicity

**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?**

The comments, feedback and suggestions were collected through interaction with industry during September'14 to March'15. The same will be compiled and justifiable changes will be incorporated in the next/updated version of the QP. This QP is set to be revised post 01st March 2016.

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

Give details of the document(s) here:

1. Skill gap report for textile sector\_2008-2022– Annexure 5



## SECTION 3

### SUMMARY EVIDENCE OF LEVEL

Summary of Direct Evidence:

Justify the NSQF level allocated to the QP by building upon the five descriptors of NSQF. Explain the reasons for allocating the level to the QP.

Generic NOS is/are linked to the overall authority attached to the job role.

Process required	Professional Knowledge	Professional Skills	Core Skills	Responsibility	Level
<p>The operator of an Automatic Shuttle Loom takes instructions from his supervisor to ensure the loom runs efficiently so as to get maximum output with minimum defects. This job requires the individual to have thorough knowledge of weaving process and functioning of the loom. The operator runs the loom in a predefined set of routine process like but he also remains proactively involved in identifying causes of machine breakdowns, attending weft break, pick finding, correcting the fabric defects, carrying out routine cleaning and maintenance activities to ensure that the productivity and quality are maintained.</p>	<p>The operator of an Automatic Shuttle Loom needs to know the process and material flow in a textile mill and concerned person for these activities. Should have understanding of different types of natural fibers, manmade fibers, blended yarns, different types of looms and different types of weaves. Also know the causes of weaving defects incurred due to man and machine faults and the four point grading system. Importance of fabric quality, safety mechanisms of the machines, stop motions and indication lamps. Proper handing over shift and taking over shift is very important for continuance of the production. Also should follow SOP and safety standards maintained by the company.</p>	<p>This operator identifies the cause of a problem and reports to his supervisor to get it resolved, refers defects and problems to the supervisor, seeks clarification on problems from others, applies good attention to detail and checks that his work is complete &amp; free of errors. Demonstrates repetitive skills like procedure for operating different material handling tools and equipments. Ensures proper functioning of machine parts in the loom and also maintains neatness at work.</p>	<p>This operator writes clear and short sentences, makes daily work report, writes grievance complaint application, comprehends written instructions, communicates with the supervisor appropriately and talks to others to convey information effectively. Performs basic calculations required during the production process for quality and uninterrupted output. Knows and understands basic banking procedures like account opening, basic banking operations and savings.</p>	<p>This operator takes instructions from his supervisor and clarifies doubts regarding the weaving requirements and specifications and adheres to the instructions received. He is responsible for running the loom smoothly without "starting mark or crack", correcting the fabric defects like wrong drawing, wrong denting, end out, double end etc., ensuring that all the stop motions, preventive mechanisms etc., function properly, identifying and reporting problems to the supervisor and maintaining work area and tools by doing basic cleaning. He is also responsible for correcting weaving defects during the process.</p>	4
Follows level 4	Follows level 4	Follows level 4	Follows level 4	Follows level 4	Follows level 4

**OTHER EVIDENCE OF LEVEL** [This need only be filled in where evidence other than primary outcomes was used to allocate a level] (**Optional**)

Summary of other evidence (if used):

## **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?**

Please refer to attached career path as per annexure 1 which clearly defines the career path.

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

Give details of the document(s) here:

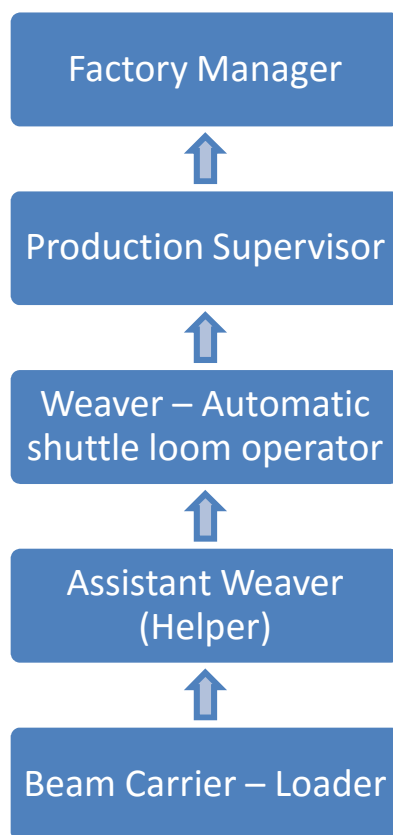
2. Career Path of Automatic Shuttle Loom Operator - Annexure 1
3. QP TSC/Q 2201 - Annexure 2

## Annexure 1

### OM & Career Path

The career progression would be as follows:

1. Beam Carrier – Loader
2. Assistant Weaver (Helper)
3. Weaver – Automatic shuttle loom operator
4. Production Supervisor
5. Factory Manager



[Annexure 2- QP TSC/Q 2201](#)

**Annexure 3 - Format for EOI for AA Accreditation from TSC**

**Annexure 4- Protocol for Accreditation of Assessment Agencies and Assessment Framework**

[Annexure 5 - Skill gap report for textile sector 2008-2022](#)