

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

NSDA Reference

To be added by NSDA

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

#### Name and address of submitting body:

**Textile Sector Skill Council (TSC)**

**Address:** 15<sup>th</sup> Floor, Nirmal Tower,

26, Barakhamba Road,

New Delhi - 110001

Tel: 011-23325012

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

**Name:** Dr. Swapna Mishra

**Position in the organisation:** Director,

**Address if different from above:**

**Tel number(s):** 011 – 435363 55 - 7

**E-mail address:** [info@texskill.in](mailto:info@texskill.in), [director@texskill.in](mailto:director@texskill.in)

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

1. Career Map/Progression of Power Loom Operator (Solar power drive attachment) - [Annexure 1](#)
2. QP TSC/Q 2209– [Annexure 2](#)
3. NSDC report on Human Resource and Skill Requirements in Textiles Sector – [Annexure 3](#)
4. Protocol for Accreditation of Assessment Agencies and Assessment Framework – [Annexure 4](#)
5. Format for EOI for AA Accreditation from TSC - [Annexure 5](#)
6. Curriculum for Power loom Operator (Solar power drive attachment) – [Annexure 6](#)

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## SUMMARY

<b>Qualification Title</b>	Power loom operator (Solar power drive attachment)
<b>Qualification Code</b>	TSC/Q 2209
<b>Nature and purpose of the qualification</b>	This is a Qualification Pack (QP) containing National Occupational Standards for the job role – Power Loom Operator The main purpose of the qualification is to get unemployed people into work and to upgrade the skills of people already in work.
<b>Body/bodies which will award the qualification</b>	Textile Sector Skill Council (Textile SSC).
<b>Body which will accredit providers to offer courses leading to the qualification</b>	Textile Sector Skill Council (Textile SSC)
<b>Body/bodies which will carry out assessment of learners</b>	<ul style="list-style-type: none"> <li>• Trendsetters Skill, Gurgaon</li> <li>• Mettl, Gurgaon</li> <li>• Base Research, Bhopal</li> <li>• Eduworld Consultants Big skill India, Mohali</li> <li>• Merittrac</li> <li>• C.K. Skills</li> <li>• India Skill Pvt. Ltd., New Delhi</li> <li>• Grow well Fincon, Hyderabad</li> <li>• Aspiring Minds, Gurgaon</li> </ul>
<b>Occupation(s) to which the qualification gives access</b>	Power loom operator On completion of the qualification the candidate will be able to work in Textile mills as an operator who runs the power loom efficiently so as to get maximum output with minimum fabric defects, giving due importance to safety & environmental aspects.
<b>Licensing requirements</b>	Nil
<b>Level of the qualification in the NSQF</b>	4
<b>Anticipated volume of training/learning required to complete the qualification</b>	300 hours 330 hours - with Optional NOS
<b>Entry requirements and/or recommendations</b>	Minimum Educational Qualifications - 6th Standard, preferably Experience–Not applicable Minimum Job Entry Age- 14 years
<b>Progression from the qualification</b>	Production supervisor
<b>Planned arrangements for the Recognition of Prior learning (RPL)</b>	The process and guidelines will be same as NSDC/PMKVY 2.0 guidelines on RPL
<b>International comparability where</b>	Attempt was made to understand the international standards followed under this qualification pack. The principles of the European, Australian

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<b>known</b>	<p>and Canadian NOSs were followed but there was no exact qualification pack found for power loom. Most of the countries who have defined NOS do not have a very large Powerloom 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 section of this industry having fulfilled the stringent export norms, justifies the standardisation of such a qualification pack.</p> <p>The source of this comparison has been based on the desk research and TSC would undertake evaluation of the same through other suggested methods.</p>		
<b>Date of planned review of the qualification.</b>	09/08/2020		
<b>Formal structure of the qualification</b>			
<b>Title of component and identification code.</b>	<b>Mandatory/ Optional</b>	<b>Estimated size (learning hours)</b>	<b>Level</b>
I. TSC/ N 2215 Taking charge of shift and handing over shift to power loom operator	M	48	Level 4
II. TSC/ N 2216 Running the power loom	M	132	Level 4
III. TSC/ N9001 Maintain work area, tools and machines	M	24	Level 4
IV. TSC/ N 9002 Working in a team	M	24	Level 4
V. TSC/ N9003 Maintain health, safety and security at workplace	M	48	Level 4
VI. TSC/ N9004 Comply with industry and organizational requirement	M	24	Level 4
VII. TSC/ N7904 Operation and Maintenance of solar attachment	O	30	Level 3

1. QP TSC/Q 2209– [Annexure 2](#)
2. Curriculum for Power loom Operator (Solar power drive attachment) – [Annexure 6](#)

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## SECTION 1 ASSESSMENT

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

- a) Trendsetters Skill, Gurgaon
- b) Mettl, Gurgaon
- c) Base Research, Bhoopal
- d) Eduworld Consultants Bigskillindia, Mohali
- e) Merittrac
- f) C.K. Skills
- g) India Skill 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 assessment 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 of TSC- 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 experience

The focus of RPL is the competency 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 candidates
3. Self-assessment
4. Evidence collection
5. Assessment and making the decision
6. Feedback to the candidates
7. Documentation of outcomes

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

- a) The emphasis is on 'learn-by-doing' and practical demonstration of skills and knowledge based on the performance criteria.
- b) The assessments manual are developed by Subject Matter Experts (SME) available with TSC. Assessment Agency ensures assessments as per the performances and assessment criteria mentioned in the Qualification Packs and assessment manuals.
- c) The assessments manual are also checked for the various outcome based parameters such as quality,

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time taken, 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 Power loom Operator also assessed. The technical limitations at the training centres are taken care in theory and viva.
- e) The assessments 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 assessments are instructed to ideally have assessors 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' manual developed by the Subject Matter Expert of the Assessment Agency or by Textile SSC as per 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 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 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 or practical based on relative importance, criticality of function and training infrastructure.

Please attaché any document giving further information about assessment and / or RPL.

Give details of the document(s) here:

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

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## ASSESSMENT EVIDENCE

### CRITERIA FOR ASSESSMENT OF TRAINEES

**Job Role:** Power Loom Operator (Solar power drive attachment)

**Qualification Pack:** TSC/Q 2209

**Sector Skill Council:** Textile Sector Skill Council

#### Guidelines for Assessment:

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
5. To pass the Qualification Pack, every trainee should score a minimum of 70% in aggregate.
6. The marks are allocated PC wise, however, every NOS will carry a weightage in the total marks allocated to the specific QP.

#### **Title of Component:**

Generic Assessable outcomes (NOS)	Performance Criteria(PC)	Total Marks	Out Of	Marks allocation	
				Skills Practical	Theory
<b>1. TSC/ N2215 Taking charge of shift and handing over shift to Power Loom Operator</b>	PC1. Come at least 10-15 minutes Earlier to the work spot	100	8	8	0
	PC2. Bring the necessary operational tools like " weavers' hook", " knife" etc.		10	4	6
	PC3. . Meet the previous shift Operator, 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.		10	7	3
	PC4. Check for the availability of the weft & the condition of the same		6	4	2
	PC5. Check the condition of the running beams, for cross ends, ends pulling out particularly at the selvages		6	4	2

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PC6. Check the availability of the thrums, quality & condition of the same	5	3	2
PC7. Check the cloth for the running damages like end out, wrong drawing, wrong 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.	8	5	3
PC8. Check for the size of the cloth rolls & see whether any indication is there in the cloth rolls	6	4	2
PC9. Check the cleanliness of the machines & other work areas	5	3	2
PC10. Check whether any spare/raw material/ tool / fabric/ any other material are thrown under the machines or in the other work areas.	5	4	1
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.	8	6	2
PC12. Hand over the shift to the incoming weaver in a proper manner & get clearance from the incoming counterpart before leaving the work spot	8	6	2
PC13. Report to your shift superior as well as that of the incoming shift, in case 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	7	4	3
PC14. Report to your shift superior about the quality / production / safety issues/ any other issue faced in your shift and should leave the department only after getting his/her concurrence for the same.	8	6	2
	<b>100</b>	<b>68</b>	<b>32</b>

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<b>2. TSC/N 2216 Running Plain Power loom</b>	PC1. Make tiny & firm weaver's knots		6	4	2
	PC2. Find out broken warp ends		6	4	2
	PC3. Find out the location of the broken end by bringing the hands under the dropper bars with mechanical droppers.		6	6	0
	PC4. Detect the location by bringing the hands over the droppers, with mechanical / electrical warp stop motion		4	3	1
	PC5. Mend the broken warp end in the sized beams with the thrums of the same count of the sized beams using " weavers ' knots"		6	4	2
	PC6. Draw the mended warp yarn through the healds properly ,as per the drawing order prescribed		6	4	2
	PC7. Draw the mended warp yarn through the reed dent properly as per the denting order prescribed		6	4	2
	PC8. See that the sley has been brought to the back centre		5	3	2
	PC9. See that the shuttle is inserted fully in the shuttle box		5	3	2
	PC10. Run the loom by pulling the starting handle with full torque		6	4	2
	PC11. See that the sley has to be brought the back centre		4	2	2
	PC12. Take out shuttle from shuttle box		6	4	2
	PC13. Do pick finding		4	4	0
	PC14. Find out the last pick inserted in the produced cloth		6	4	2
	PC15. Tie sley to the back centre, after doing the pick finding		5	3	2
	PC16. Insert shuttle into the correct box as per the pick finding done	275	5	3	2
	PC17. See that the shuttle is inserted fully in the shuttle box		6	6	0
	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		7	4	3
	PC19. Bring back the sley to centre		6	3	3



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PC20. See that the shuttle is inserted fully in the shuttle box	8	6	2
PC21. Run the loom by pulling the starting handle with full to	10	7	3
PC22. Store the required quantity of weft pirns in the pirn storage container which is near the machine.	8	6	2
PC23. 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.	4	3	1
PC24. 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	8	6	2
PC25. "Unweave " the same in case of any floats	7	5	2
PC26. Run the machine without starting mark or crack.	8	6	2
PC27. Ensure that the loose threads are hanged in higher length (not more than 4 mm) accordingly and trimmed after attending to the warp breaks.	7	5	2
PC28. Patrol the machines and do mending so as to minimize the stoppages	6	6	0
PC29. Check the warp yarn tension, if required to increase or decrease the warp yarn tension by adjusting the dead weight in the let off motion.	6	4	2
PC30. Ensure the cloth roll size and proper winding. If the fabric length is reached the prescribed length to cut the fabric and empty cloth roll fixed for fresh winding.	6	4	2

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PC31. 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.	8	3	5
PC32. Ensure that the correct weft yarn as per the "loom card" only is used	8	3	5
PC33. Ensure 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.	6	2	4
PC34. Avoid pulling out warp ends unnecessarily. If end is getting cut often in the selvage, the same has to be brought to the notice of the mechanics/ fitters/ superiors & get it corrected	6	3	3
PC35. Ensure that all the stop motions, preventive mechanisms etc., function properly	5	2	3
PC36. Ensure that the correct quality of thrums are available & see that the same are properly tied	8	3	5
PC37. Check the knotted loom for knotting quality, double ends have to be removed. Should report to superiors for any deviation in the same & for any other quality issue	9	3	6
PC38. Ensure that the looms are stopped for a minimum possible down time due to whatever reason & see that you gets the maximum outputs in your shift	8	3	5
PC39. Check the fabrics for the defects at least twice in a shift and sign on the cloth both times	10	5	5
PC40. Ensure that the cloth rolls are doffed whenever/ wherever necessary	6	3	3

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	PC41. Give preference to safety and do not enter the area, where you are not allowed and do not do a job in which training has not been given		5	3	2
	PC42. Ensure that no raw material/ cloth/ spare/ tool / any other material is thrown under/ near the machines or in the other work areas.		8	5	3
	PC43. Check for the reasons for the frequent warp/ weft breaks. The reasons that can be corrected by your self should be corrected, otherwise the same has to be reported to the mechanics/ fitters/ superiors		5	3	2
			<b>275</b>	<b>171</b>	<b>104</b>
<b>3. TSC/ N 9001 Maintain work area, tools and machines</b>	PC1. Handle materials, machinery, equipment and tools safely and correctly	50	4	2	2
	PC2. Use correct lifting and handling procedures		4	2	2
	PC3. Use materials to minimize waste		3	2	1
	PC4. Maintain a clean and hazard free working area		3	2	1
	PC5. Maintain tools and equipment		4	3	1
	PC6. Carry out running maintenance within agreed schedules		4	2	2
	PC7. Carry out maintenance and/or cleaning within one's responsibility		4	2	2
	PC8. Report unsafe equipment and other dangerous occurrences		4	2	2
	PC9. Ensure that the correct machine guards are in place		3	2	1
	PC10. Work in a comfortable position with the correct posture		3	2	1
	PC11. Use cleaning equipment and methods appropriate for the work to be carried out		3	2	1
	PC12. Dispose of the waste safely in the designated location		4	2	2

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	PC13. Store cleaning equipment safely after use		3	2	1
	PC14. Carry out cleaning according to schedules and limits of responsibility		4	2	2
			<b>50</b>	<b>29</b>	<b>21</b>
<b>4.TSC/ N9002 Working in a team</b>	PC1. Be accountable to your role in whole process	50	5	4	1
	PC2. Perform all roles with full responsibility		4	3	1
	PC3. Be effective and efficient at workplace		4	2	2
	PC4. Properly communicate about Company policies		4	3	1
	PC5. Report all problems faced During the process		4	3	1
	PC6. Talk politely with other team Members and colleagues		4	3	1
	PC7. Submit daily report of own Performance		5	3	2
	PC8. Adjust in different work Situations		4	3	1
	PC9. Give due importance to others' point of view		4	3	1
	PC10. Avoid conflicting situations		4	2	2
	PC11. Develop new ideas for work procedures		4	2	2
	PC12. Improve upon the existing Techniques to increase process efficiency		4	2	2
				<b>50</b>	<b>33</b>
<b>5.TSC/ N9003 Maintain health, safety at and security at workplace</b>	PC1. Comply with health and safety related instructions applicable to the workplace		5	3	2
	PC2. Use and maintain personal Protective equipment as per protocol		5	3	2
	PC3. Carry out own activities in line with approved guidelines and procedures		4	3	1
	PC4. Maintain a healthy lifestyle And guard against dependency on intoxicants		4	3	1

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PC5. Follow environment Management system related Procedures	100	4	3	1
PC6. Identify and correct (if possible) malfunctions in machinery and equipment		5	3	2
PC7. Report any service malfunctions that cannot be rectified		4	3	1
PC8. Store materials and equipment in line with manufacturer's and organizational requirements		4	2	2
PC9. Safely handle and move waste And debris		4	2	2
PC10. Minimize health and safety risks to self and others due to own actions		5	3	2
PC11. Seek clarifications, from Supervisors or other authorized personnel in case of perceived risks		4	4	0
PC12. Monitor the workplace and Work processes for potential risks and threats		5	3	2
PC13. Carry out periodic walk-Through to keep work area free from hazards and obstructions, if assigned		5	3	2
PC14. Report hazards and potential risks/threats to supervisors or other authorized personnel		4	2	2
PC15. Participate in mock drills/ Evacuation procedures organized at the workplace		4	2	2
PC16. Undertake first aid, fire-Fighting and emergency response training, if asked to do so		5	3	2
PC17. Take action based on Instructions in the event of fire, emergencies or accidents		5	3	2
PC18. Follow organization Procedures for shutdown and evacuation when required		4	3	1
PC19. Identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry		4	3	1

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	PC20. Recognize other possible Security issues existing in the workplace		4	3	1
	PC21. Recognize different measures To curb the hazards		4	3	1
	PC22. Communicate the safety plan to everyone		4	3	1
	PC23. Attach disciplinary rules with the implementation		4	3	1
			<b>100</b>	<b>66</b>	<b>34</b>
<b>6.TSC/N 9004 Comply with industry and organizational requirements</b>	PC1. Perform own duties effectively	50	4	2	2
	PC2. Take responsibility for own actions		4	2	2
	PC3. Be accountable towards the Job role and assigned duties		4	3	1
	PC4. Take initiative and innovate the existing methods		3	2	1
	PC5. Focus on self-learning and Improvement		4	2	2
	PC6. Co-ordinate with all the team Members and colleagues		4	2	2
	PC7. Communicate politely		4	3	1
	PC8. Avoid conflicts and miscommunication		4	2	2
	PC9. Know the organizational Standards		4	3	1
	PC10. Implement the mind our performance		4	2	2
	PC11. Motivate others to follow them		3	2	1
	PC12. Know the industry standards		4	3	1
	PC13. Align them with organization standards		4	3	1
				<b>50</b>	<b>31</b>
	Total		<b>625</b>	<b>291</b>	<b>227</b>

OPTIONS					
Option 1: Solar power drive attachment					
TOTAL MARKS: 50				Marks Allocation	
Assessible	Assessment Criteria	Total	Out of	Theory	Skills

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Outcomes		Marks			Practical
TSC/N7904 Operation and Maintenance of solar attachment	PC1. Clear the weed/ Grass near the solar panels if any	50	3	1	2
	PC2. Clean the surface of the solar panel for dust with wet sponge/cloth		3	1	2
	PC3. Ensure the Charge controller, Batteries are working properly as instructed		3	1	2
	PC4. Prepare Solar powered Handloom/ Khadi machine for operation		4	1	3
	PC5. Switch on the main motor and start the machine for production		3	1	2
	PC6. Check periodically for the working of light indicators and display panel for voltage fluctuation		5	2	3
	PC7. Ensure that the battery is kept at a dry place		4	1	3
	PC8. Check the Electrolyte level of battery and top up the electrolyte whenever required		5	2	3
	PC9. Check for electrolyte/ Distilled water leak from batteries		5	2	3
	PC10. Clean the battery at prescribed intervals for fluff accumulation		3	1	2
	PC11. Clean the inverter, Battery Charger and Charge controller for fiber dust		3	1	2
	PC12. Inspect and ensure the cleanliness of panel boxes		3	1	2
	PC13. Use Personal Protective Equipments while topping up of Distilled water and cleaning		3	1	2
	PC14. Use appropriate tools such as cloth, brush for to various parts of the power system		3	1	2
	<b>Total</b>	<b>50</b>	<b>17</b>	<b>33</b>	

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### Means of assessment 1

Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.

The assessment for the theory part will be based on knowledge bank of questions created by the SSC. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).

Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria.

### Means of assessment 2

[Add boxes as required.](#)

### Pass/Fail

To pass the Qualification Pack, every trainee should score a minimum of 80% in aggregate.

The marks are allocated PC wise, however, every NOS will carry a weightage in the total marks allocated to the specific QP.

## SECTION 2 EVIDENCE OF LEVEL

### OPTION A



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Title/Name of qualification/component: <b>Power Loom Operator</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the job role relates to the NSQF level descriptors	NSQF Level
Process	<p><b>Familiar in work</b></p> <ul style="list-style-type: none"> <li>This operator gets work allotted by his supervisor and is responsible for running the loom efficiently so as to get maximum output with minimum defects, giving due importance to safety and environment aspects.</li> <li>Coming early to the shift</li> <li>Meet the previous shift weaver, 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</li> <li>Check the condition of shuttles</li> <li>Check the condition of required materials for production includes pirn, warp beams and necessary tools</li> <li>Work proactively in attending warp break, attending weft breakage, mending the broken warp end in the size beams, carrying out routine cleaning and maintenance activities to ensure that quality and productivity is maintained.</li> </ul> <p><b>Routine process</b></p> <ul style="list-style-type: none"> <li>Need to provide all relevant information regarding the type of fabric production, damaged machine parts if any</li> <li>Need to handle the machine and its related problem in the predefined set of routine process.</li> <li>Carry out running maintenance within agreed schedules</li> <li>Carry out maintenance and/or cleaning within one's</li> </ul>	<p>A Power Loom weaver is a job role in the weaving department. This operator gets work allotted by his supervisor and is responsible for running the loom efficiently so as to get maximum output with minimum defects, giving due importance to safety and environment aspects. It involves handling the machine in the predefined set of routine process. So the work is familiar, predictable and routine. He also remains proactively involve in attending warp break, attending weft breakage, mending the broken warp end in the size beams, carrying out routine cleaning and maintenance activities to ensure that quality and productivity is maintained. The process involves working in situation of clear choice. Hence it follows the requirements of NSQF Level 4.</p>	4

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Title/Name of qualification/component: <b>Power Loom Operator</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the job role relates to the NSQF level descriptors	NSQF Level
	<p>responsibility</p> <p><b>Situation of Clear choice</b></p> <ul style="list-style-type: none"> <li>• Ensure about the safety in his surrounding</li> <li>• Aware about all the possible hazards in his work area</li> </ul>		
Professional knowledge	<p><b>Factual knowledge in the field of knowledge</b></p> <ul style="list-style-type: none"> <li>• process flow and material flow in a textile mill</li> <li>• Knowledge about the hierarchy level in the industry</li> <li>• Different types of natural fibers, manmade fibers, blended yarns, different types of looms and different types of weaves.</li> <li>• Weaving defects incurred due to man and machine faults and the four point grading system of fabric.</li> <li>• Importance of fabric quality, safety mechanisms of the machines, stop motions and indication lamps.</li> <li>• Proper handing over shift and taking over shift is very important for continuance of the production.</li> <li>• SOP and safety standards maintained by the company.</li> </ul>	<p>A power Loom weaver needs to know the process flow 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. This requires him to have factual knowledge about the field of study and hence follows requirements of NSQF level 4.</p>	4
Professional skill	<p><b>Recall and demonstrate practical skills, routine and repetitive within narrow range of application</b></p> <ul style="list-style-type: none"> <li>• Demonstrate repetitive skills like procedures for operating different material handling and carrying</li> </ul>	<p>This operator identifies the cause of a problem and reports to his supervisor to get it resolved, refer defects and problem to the supervisor, seeks clarification on problem from others, applies good attention to details and checks that his works is</p>	4

## NSQF QUALIFICATION FILE GUIDANCE

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Title/Name of qualification/component: <b>Power Loom Operator</b>			Level: 4
NSQF Domain	Outcomes of the Qualification/Component	How the job role relates to the NSQF level descriptors	NSQF Level
	<p>out maintenance activities in different parts of loom</p> <ul style="list-style-type: none"> <li>Identify the cause of a problem and reports to his supervisor to get it resolved.</li> <li>Refer defects and problem to the supervisor, seeks clarification on problem from others</li> <li>Apply good attention to details and checks that his works is completed and free of errors.</li> <li>Maintain neatness at work place.</li> </ul>	<p>completed &amp; free of errors. Demonstrates routine, repetitive practical skills within limits of his own responsibility like procedures for operating the power loom, taking charge and handing over shift, material handling and carrying out maintenance activities to maintain neatness at work. . Hence the NSQF level should be 4.</p>	
Core skill	<p><b>Communication skills</b></p> <ul style="list-style-type: none"> <li>Communicate with the supervisor appropriately and talk to others to convey information effectively.</li> <li>Communicate effectively and avoid conflicts and miscommunication with the employees/members.</li> <li>Write clear and short sentences, make daily work report, write grievance complaint application, and comprehend written instruction.</li> </ul> <p><b>Mathematical Skill</b></p> <ul style="list-style-type: none"> <li>Performs basic calculations required during the production process for quality and uninterrupted output.</li> <li>Basic banking procedures like account opening, basic banking operations and savings.</li> </ul>	<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. He requires basic understanding of social, political and natural environment. Hence fulfils requirements of NSQF level 4.</p>	4
Responsibility	<ul style="list-style-type: none"> <li>Run the Power loom efficiently.</li> <li>Correct the fabric defects like wrong drawing, wrong denting end out, double end, etc.,</li> <li>Patrolling the machines, so as to minimise the</li> </ul>	<p>This operator takes charge of the shift and handles over the shift to the next operator and is responsible for running the power loom efficiently, identifying the fabric defects (wrong drawing, wrong denting end out, double end, etc.), identify</p>	4

## NSQF QUALIFICATION FILE GUIDANCE

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Title/Name of qualification/component: <b>Power Loom Operator</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the job role relates to the NSQF level descriptors	NSQF Level
	<p>stoppage</p> <ul style="list-style-type: none"> <li>• He has the responsibility of carrying out his activities as specified and maintains clean work area.</li> <li>• Ensure personal and organisation safety</li> <li>• Ensure good life ethics</li> </ul>	<p>their causes and correcting them, patrolling the machines and doing mending so as to minimise the stoppage and maintaining work area, tools by doing basic cleaning. This job role requires knowledge about responsibility for own work and learning correct working procedures. Hence the NSQF level should be 4.</p>	

## NSQF QUALIFICATION FILE GUIDANCE

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### SECTION 3

#### EVIDENCE OF NEED

Please refer to the attached the career paths as per Annexure 1, which have been derived through extensive industry interactions facilitated from 45 workshops, 5 questionnaire validation and interaction with 50 representatives from different organizations all over the state Tamil nadu. 29 Large scale industries, 14 Medium Size industries and 7 small industries were involved in the validation process to make the Qualification Packs viable to the current industry requirements.

S. NO	Large scale Industries	Medium Industries	Small Industries
1	PDEXCIL	M/s. Lakshmi tex, Perundurai	M/s. Kartheeswara Textiles, Avinashi
2	Sri Samandam Spinning Mills, Salem	M/s. Arunaa Gold Tex Corporate India P Ltd	M/s. Subham Textiles, Somanur
3	Premier spg and wvg mills	M/s. Kumaran Textiles, Palladam	M/s. Sudharsan Textiles, Somanur
4	Kadri mills	M/s. Swamy Cotton Mills, Tirupur	M/s. O P K Textiles, Palladam
5	Pankaja Mills	M/s. Arunachalagounder Textiles, Somanur	BNB Mills
6	Coimbatore Murugan Mills	M/s. Prakash Cotex, Mangalam	Krishna Tex, Palladam
7	Adwaith Textiles	M/s. Prakash textiles, Somanur	Kavitha Tan, Palladam
8	Cambodia Mills	M/s. Jega Textiles, Somanur	
9	C S & W Mills	M/s. Sri Karpagam Mills, Somanur	
10	SRV Mills	M/s. Selvanayaki Textiles, Somanur	
11	Sri Karthik Mills	Sri Saravana Tex	
12	Sri Ranga Vilas	Pranav Clothing Mills	
13	Pioneer Mills	J R tex	
14	ITF	Moorthy Knitting	
15	KPM Processing Mills		
16	Lagu Udhoy Bharathi		

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17	SIHMA		
18	Ramraj cotton		
19	Sri Karpagam Spinning Mills India Ltd		
20	TEAMA		
21	Season Clothing		
22	NIFT-TEA		
23	Dyers association		
24	Precot Mills		
25	SCM Textile Spinners		
26	KG Naidu Mills		
27	Srinivasa Mills		
28	Eshwara Mills		
29	Balaji Mills		

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

The incremental human resource requirement between 2008 and 2022 is 0.7 million people under Textile Sector. This estimate has been drawn on basis of the NSDC report on Human Resource and Skill Requirements in Textiles Sector.

### **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 Qualification Pack has been developed based on stakeholder engagement through workshops held at various Textile clusters and one on one discussions with core cluster stakeholders. The inputs and feedbacks given by them were incorporated while drafting the QP. The QP would be revised in six months (25<sup>th</sup> August, 2018) or before in case of any critical or necessary inputs received.

## NSQF QUALIFICATION FILE GUIDANCE

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### 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:

1. Career Path of power loom operator - [Annexure 1](#)
2. TSC/Q 2209- [Annexure 2](#)
3. Skill gap report for textile sector – “NSDC report on Human Resource and Skill Requirements in Textiles Sector” - [Annexure 3](#)
4. Protocol-for-Accreditation-of-Assessment-Agencies-and-Assessment-Framework- [Annexure 4](#)
5. Format for EOI for AA Accreditation from TSC - [Annexure 5](#)
6. Curriculum for Power loom Operator – [Annexure 6](#)

# NSQF QUALIFICATION FILE GUIDANCE

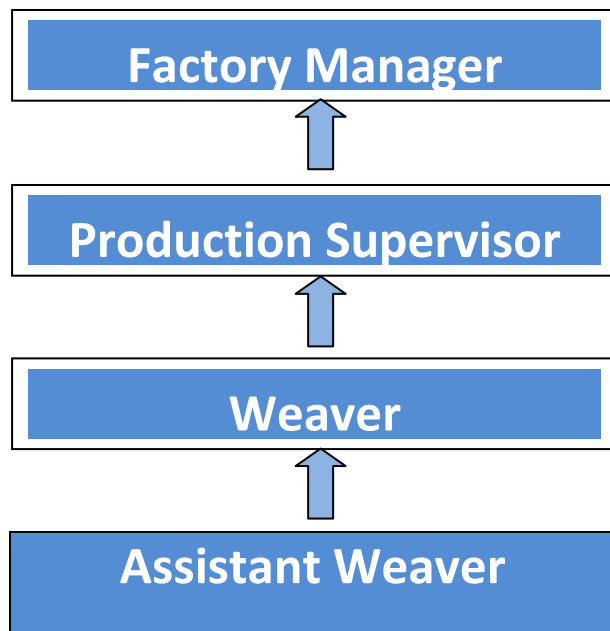
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## Annexure 1

### OM & Career Path

The Career progression would be follows:

1. Assistant Weaver (Helper)
2. Weaver
3. Production Supervisor
4. Factory Manager





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### Annexure 2

**QP Name – Power Loom Operator (Solar power drive attachment)**

**QP reference ID- TSC/Q2209 (click on the icon to view the QP)**



TSCQ2209\_Powerloom Operator.pdf

## **NSQF QUALIFICATION FILE GUIDANCE**

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### **Annexure 3**

**Click the link - NSDC report on Human Resource and Skill Requirements in Textiles Sector.**



**NSDC report on  
Human Resource and**

# NSQF QUALIFICATION FILE GUIDANCE

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## Annexure 4

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



Protocol-for-Accreditation-of-Assessment-

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## Annexure 5

Click on the icon to view – Format for EOI for AA Accreditation from TSC



Adobe Acrobat  
Document

## NSQF QUALIFICATION FILE GUIDANCE

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### Annexure 6

Click on icon below to view – Curriculum Power loom Operator



MC\_Power loom  
operator.pdf

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