

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**

**6<sup>th</sup> Floor, Narain Manzil, 23, Barakhamba Road, New Delhi – 110001**

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

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

1. Career Map of Autoconer Tenter- Annexure 1
2. QP TSC/Q 0301– 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 0301 - Autoconer Tenter
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	Autoconer Tenter
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 5 <sup>th</sup> Pass with 1-2 years' experience in a Textile Mill.
Minimum age	14 Years
Progression from the qualification.	Autoconer Fitter
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 Autoconer Tenter. Canadian NOS covers in parts Textile Industry but autoconer tenting 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</p>

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 suggested modes.			
<b>Formal structure of the qualification</b>			
<b>Title of unit or other component</b> (include any identification code used)	<b>Mandatory/</b>	<b>Estimated size</b>	<b>Level</b>
	<b>Optional</b>	<b>(learning hours)</b>	
TSC/ N0301 Taking charge of shift and handing over shift to Autoconer Tenter	Mandatory	23	<b>4</b>
TSC/N0302 Operating the autoconer and carrying out general tenting activities	Mandatory	46	<b>4</b>
TSC/N0303 Filling the ring cops and doffing the cone package	Mandatory	35	<b>4</b>
TSC/N0304 Carryout cleaning and maintenance activities	Mandatory	46	<b>4</b>
TSC/N9001 Maintain work area, tools and machines	Mandatory	12	<b>4</b>
TSC/ N9002 Working in a team	Mandatory	12	<b>4</b>
TSC/N9003 Maintain health, safety and security at workplace	Mandatory	23	<b>4</b>
TSC/N9004 Comply with industry and organizational requirement	Mandatory	12	<b>4</b>

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 0301 – Annexure 2

## 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 autoconer tenter 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) is 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/N0301 Taking charge of shift & handing over shift to Autoconer Tenter

<b>Job Role: Autoconer Tenter</b> <b>Qualification Pack: Autoconer Tenter (TSC / Q 0301)</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		
				Theory	Skills Practical	Viva
1. TSC/N 0301 (Taking charge of shift and handing over shift to Autoconer Tenter )	PC1. come at least 10 - 15 minutes earlier to the work spot	100	3	1	1	1
	PC2. tie the waist bag/over coat/apron/cap as specified		4	1	2	1
	PC3. get instructions from supervisors and clarify doubts regarding repairs attended/changes made in previous shift		5	2	1	2
	PC4. bring the necessary operational tools to the department		3	1	1	1
	PC5. meet the previous shift operator and 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.		4	1	2	1
	PC6. understand the count produced, colour coding, followed in the autoconer for his allocated number of drums or machines		4	1	2	1
	PC7. ensure the technical details are		4	1	2	1

	mentioned in the display board in the autoconer					
	PC8. check and make sure that the machines, equipments, etc. are in clean and good condition		3	1	1	1
	PC9. check for the availability of the ring cops		4	1	2	1
	PC10. ensure all the winding units are running properly, winding units which are not running and problems if any should be clarified with the supervisor and operator		4	2	2	0
	PC11. ensure all the cone drums are running properly, if not should be enquired for the reason for idle cone drums and report to the superiors regarding the same		4	2	2	0
	PC12. ensure proper functioning of autoconer machine parts		4	1	1	2
	PC13. check the cleanliness of the machines & other work areas		4	1	2	1
	PC14. Check whether any spare/raw material/ tool / yarn / any other material are thrown under the machines or in the other work areas.		3	1	1	1
	PC15. Question the previous shift operator 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.		3	1	1	1
	PC16. ensure the wastes collection boxes are empty while taking charge of shift		4	1	2	1
	PC17. ensure the Over Head Travelling Cleaner (OHTC) is working properly		5	2	1	2
	PC18. hand over the shift to the incoming shift operator in a proper manner		5	2	1	2
	PC19. ensure in providing the details regarding count produced, colour coding followed in the autoconer for his allocated number of cone drums or machines		4	1	1	2
	PC20. provide all relevant information regarding the count produced, idle cone		5	1	1	3

	drums, damaged machine parts if any					
	PC21. get clearance from the incoming counterpart before leaving the work spot		4	1	1	2
	PC22. report to his/ her shift superiors as well as that of the incoming shift operator in case his/ her counterpart doesn't report for the incoming shift		4	1	1	2
	PC23. ensure the shift has to be properly handed over to the incoming shift operator		4	1	1	2
	PC24. 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		3	1	1	1
	PC25. Weigh the hard waste generated and collected from the machine separately for each shift and deposit at the specified places		2	0	1	1
	PC26. collect the wastes from waste collection bags, weigh them and transport to storage area		2	1	1	0
	PC27. ensure the work spot is clean		2	1	1	0
	<b>Total</b>		<b>100</b>	<b>31</b>	<b>36</b>	<b>33</b>
		<b>Weightage %</b>		<b>31%</b>	<b>36%</b>	<b>33%</b>
<b>2. TSC/N 0302 (Operating the autoconer and carryout general tenting activities )</b>						
	PC1. identify the cop by looking at the count board affixed on the machine	<b>200</b>	4	1	2	1
	PC2. make sure that necessary changes and tests are carried out and follow the instructions of the superiors before running the machine		3	1	1	1
	PC3. operate the control switches for starting and stopping the machine		5	2	2	1
	PC4. ensure correct procedure is followed for operating the different control switches and machine		4	2	2	0
	PC5. following the different signal lamps used in machines		4	2	1	1



PC6. ensure the display panel board is working properly and relevant details are displayed in the screen	5	2	3	0
PC7. ensure proper functioning of autoconer by verifying the details in the display panel	5	2	3	0
PC8. ensure the ring cops are properly filled in the magazine	5	2	2	1
PC9. properly doff the full cone package in case of manual doffing	6	2	3	1
PC10. ensure the full cone are properly doffed in auto doffer	5	2	2	1
PC11. ensure the machine is running in the set speed by viewing the display panel	4	1	2	1
PC12. bring the cops in the cop trolley from storage area	5	2	2	1
PC13. fill the ring cops in magazine	4	1	2	1
PC14. Sort the empties collected in the bin then and there, take the rejected cops, rectify the defect (by unwinding without making waste unnecessarily) and creel in the nearer magazines	5	2	2	1
PC15. ensure proper passage of material of yarn in the winding units	5	2	2	1
PC16. ensure the splicing unit is working properly	6	2	3	1
PC17. restart the winding unit if the winding unit is stopped on specified number of successive failures of splicing	5	2	2	1
PC18. ensure the waxing roll is available if the yarn is waxed	5	2	2	1
PC19. put the waxes in the wax axle according to the material being processed as per the instruction of superiors	4	2	2	0
PC20. check the waxing unit and fix new waxing rolls if the old one exhausts	4	2	2	0
PC21. Ensure running waxes are clean and they are freely rotating.	5	2	3	0
PC22. ensure the wax index is switched off, while processing un - waxed counts	5	2	3	0
PC23. restart the winding unit on need basis	6	2	3	1
PC24. ensure the eye unit is working	5	2	2	1

	properly					
	PC25. remove the drum lapping manually with appropriate tool like knife, scissors, without damaging the drum		5	2	2	1
	PC26. switch on air valve while restating the machine after every stoppage		5	2	2	1
	PC27. see that the tension is as per requirement in drums		4	2	2	0
	PC28. Follow instructions/direction of supervisors, during count changes,		5	2	1	2
	PC29. Switch on the spindle only after rectifying the problem.		5	2	2	1
	PC30. ensure all the winding unit are in running condition		4	1	2	1
	PC31. see the signal lamps in every winding unit and identify the reason for stoppage and restart		4	1	2	1
	PC32. Give priority for signal glowing drums, attend the drums immediately and start the drums without any delay		4	1	2	1
	PC33. carryout doffing activity if auto doffing unit is not available in the autoconer		5	2	2	1
	PC34. Attend DHT conveyor belt jam immediately to avoid parallel yarn winding.		5	2	2	1
	PC35. report to the supervisor and maintenance in charge if the yarn alarm and quality alarms rings		4	1	2	1
	PC36. identify and report the different package defects to the superiors transport of empty cops to ring frame department		5	2	2	1
	PC37. report to superiors immediately if any defects such as yarn shade variation, strength variation, twist variation, stains etc. are found		5	1	1	3
	PC38. change as per the instructions direction of supervisors during count changes		4	1	1	2
	PC39. ensure proper material handling of full cops, empty cops, cop trolleys and full cones		4	1	2	1

	PC40. use appropriate tool for cleaning choked dust at yarn clearer unit		5	2	2	1
	PC41. remove the drum lapping manually with appropriate tool, without damaging the drum		4	1	2	1
	PC42. ensure using proper material handling of tools and equipments		3	1	2	0
	PC43. ensure proper material handling of waste		2	1	1	0
	PC44. Use of safety gadgets like caps, masks and shoes and verifying the safety stop motions.		4	1	2	1
	<b>Total</b>		<b>200</b>	<b>73</b>	<b>89</b>	<b>38</b>
		<b>Weightage %</b>		<b>36.5%</b>	<b>44.5%</b>	<b>19%</b>
<b>3. TSC/N 0303 (Filling the ring cops and doffing the cone package)</b>						
	PC1. bring the cops in the cop trolley from storage area	<b>150</b>	4	1	2	1
	PC2. ensure correct count cop trolley is taken to winding unit for filling		4	1	2	1
	PC3. patrol around the winding machine successively and identify the cop exhaust in magazine		4	1	2	1
	PC4. creel the cops in the magazine		5	1	3	1
	PC5. check frequently is there any signal stops present during cops filling		6	2	3	1
	PC6. ensure the cop is properly placed in the magazine		5	2	2	1
	PC7. ensure the yarn end of the cop is fed in the suction pipe at the centre of magazine		4	1	2	1
	PC8. ensure the winding unit should not stop due to cops exhaust		6	2	3	1
	PC9. deposit hard waste in their coat pocket/waist bag after filling		4	1	2	1
	PC10. ensure minimum time is taken for filling the ring cops		5	2	2	1
	PC11. ensure proper functioning of machine		3	1	1	1
	PC12. ensure safety while filling cops		5	2	2	1
	PC13. fetch and reserve empty cones in autoconer machine		5	1	2	2
	PC14. Write down drum no., machine no. and winder number in empty		5	2	2	1

	cone if necessary				
	PC15. ensure the cone is wound till the required length or weight of yarn is wound on cone package	4	1	2	1
	PC16. check the cone package is fully wound to the predetermined length or weight and start doffing	4	2	1	1
	PC17. either stop the drum for doffing or doff the cone package while the drum is running as per the instructions of the supervisor	5	2	2	1
	PC18. ensure proper procedure is adopted for doffing the cone package	5	1	3	1
	PC19. ensure proper material handling of cone package	6	2	3	1
	PC20. ensure the cones are as per specifications	5	2	2	1
	PC21. insert the empty cone after doffing	5	2	2	1
	PC22. Ensure strictly proper colour coded empty paper cone is mounted in holder.	5	2	2	1
	PC23. Put tail end as specified on the base of the empty cone before starting.	4	1	2	1
	PC24. during count change do the necessary changes and follow the instructions of the superiors	4	1	2	1
	PC25. release the cone holder and ensure the paper cone is in surface contact with the winding drum ensure proper traverse of yarn on winding drum	5	2	2	1
	PC26. ensure the proper passage of yarn in autoconer	4	1	3	0
	PC27. weigh the cone package as specified and ensure the required weight have been achieved	5	1	2	2
	PC28. place the cones in the cone trolley and store in the storage area as instructed	6	2	3	1
	PC29. patrol around the machine and check for signal stops	2	1	1	0
	PC30. ensure the link coner mechanism is properly working	3	1	1	1
	PC31. ensure there is no jam in the link	2	1	1	0

	coner transport passage					
	PC32. ensure the cops are properly mounted in the cop holder		2	0	1	1
	PC33. ensure the cops are properly fed to winding unit		3	1	2	0
	PC34. clear traffic congestion at the full cop feeding path and rejected cops carrying path		6	3	2	1
	<b>Total</b>		<b>150</b>	<b>49</b>	<b>69</b>	<b>32</b>
		<b>Weightage %</b>		<b>32.67 %</b>	<b>46%</b>	<b>21.33 %</b>
<b>4. TSC/N 0304 (Carryout cleaning and maintenanc e activities)</b>	PC1. ensure the different mechanisms in autoconer is clean	<b>200</b>	4	1	1	2
	PC2. clean the different mechanisms in autoconer at the scheduled interval as instructed by superiors		3	1	1	1
	PC3. removing faults from ring cops		4	1	2	1
	PC4. ensure the waxing rolls are clean		4	2	2	0
	PC5. ensure the eye area is clean		4	2	2	0
	PC6. remove the waste from the measuring head of eye if any		3	1	2	0
	PC7. To keep the wastes in waste bags, piecer bags, or in aprons.		4	1	2	1
	PC8. proper material handling of full cops, empty cops and full cones		3	1	1	1
	PC9. proper material handling of waste		3	1	1	1
	PC10. transporting empty cops to ring frame department		3	1	1	1
	PC11. ensure in keeping the wax washers clean		4	2	2	0
	PC12. clean the waste accumulation from different parts of the machine from time to time		4	1	2	1
	PC13. to use proper tools for cleaning		4	1	2	1
	PC14. package defects produced in the autoconer to be identified and should be reported to superiors		3	1	1	1
	PC15. ensure the yarn produced is free from defects and damages		4	1	2	1
	PC16. collect the hard wastes from waste collection box in autoconer machine at regular intervals as		3	1	1	1

	instructed by superiors				
	PC17. ensure the wastes collected are deposited in the respective waste box	4	1	2	1
	PC18. The rejected cops in the empties trolley should be segregated, cleaned and returned.	4	1	2	1
	PC19. all half cops and damaged cops should be cleaned in the particular shift itself	4	1	2	1
	PC20. to ensure safety while carrying out cleaning activities	3	1	1	1
	PC21. ensure cleanliness at work place	3	1	1	1
	PC22. support the mechanic while carryout cleaning maintenance activities if necessary	3	1	1	1
	PC23. clean the wastes in the alley around the autoconer area	4	1	2	1
	PC24. ensure the full cone transportation belt and empty tubes conveyor belt area is clean	4	1	2	1
	PC25. ensure OHTC is running continuously without stopping whenever machine stopped for any maintenance / cleaning work	3	1	1	1
	PC26. ensure proper functioning of machine	4	1	2	1
	PC27. check and verify the quality of different machine parts	3	1	1	1
	PC28. able to remove the worn out parts and replace with new parts in Autoconer machine with the knowledge of fitter/shift in-charge	4	1	2	1
	PC29. report to superior if any abnormal functioning mechanisms in autoconer	4	1	2	1
	PC30. ensure all the winding drum is in good running condition	3	1	1	1
	PC31. remove the lappings if any	4	1	2	1
	PC32. Ensure the working of all stop motions, tension washer and eyc.	3	1	2	0
	PC33. check whether splicing unit is working proper condition	5	2	2	1
	PC34. check the proper functioning of machine parts	5	1	3	1
	PC35. ensure that the conveyor belt is	5	1	2	2

	clean and proper cop transport occurs				
	PC36. ensure that the conveyor belt is clean and proper cone transport occurs	4	1	2	1
	PC37. attend the jams in winding sections and report to supervisor and fitters	4	1	2	1
	PC38. see that all the red lights are attended immediately and also feed track jamming, cops jamming in apckvb should be attended properly	5	2	2	1
	PC39. in case yarn getting wound up on the drum, stop the machine and remove the same gently without damaging the drum	5	1	2	2
	PC40. report to the maintenance in charge and supervisor if any malfunctioning in the machine	4	1	2	1
	PC41. Check the OHTC working condition.	4	1	2	1
	PC42. report to the superiors if any eyc is malfunctioning	4	1	2	1
	PC43. ensure safety while carrying out maintenance activities	3	1	1	1
	PC44. support the fitter for carrying out maintenance activities	4	1	2	1
	PC45. inform the supervisor and maintenance in charge in case of a jam	4	1	2	1
	PC46. in case of any break-downs, report to the superiors and support him for carrying out maintenance activities	3	1	1	1
	PC47. support the fitter during minor breakdown	4	1	2	1
	PC48. ensure the cone produced is free from outside damages	4	1	2	1
	PC49. inform superiors immediately, if any break down or fault in the machine is noticed	4	1	2	1
	PC50. ensure the proper functioning of signal lamps	4	1	2	1
	PC51. ensure that machine is working properly, if any deviations inform superiors immediately	3	1	1	1
	PC52. collect the hard wastes and weigh them at shift end and place them in specified area	4	1	2	1

	PC53. Provide all relevant information's of the current working process to the next shift operator before relieving.		4	1	2	1
	<b>Total</b>		<b>200</b>	<b>58</b>	<b>91</b>	<b>51</b>
		<b>Weightage %</b>		<b>29.0%</b>	<b>45.5%</b>	<b>25.5%</b>
<b>5.TSC/N900 1 (Maintaining work area, tools and machines)</b>	PC1. handle materials, machinery, equipment and tools with care and use them in the correct way	<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 safely after use		3	1	1	1
	PC14. carry out cleaning according to schedules and limits of responsibility		4	1	2	1
	<b>Total</b>			<b>50</b>	<b>15</b>	<b>21</b>
		<b>Weightage %</b>		<b>30.0%</b>	<b>42.0%</b>	<b>28.0%</b>
<b>6.TSC/N900 2 (Working in a team)</b>	PC1. be accountable to the own role in whole process	<b>50</b>	4	2	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	1	2	1
	PC9. give due importance to others' point of view		4	1	2	1
	PC10. avoid conflicting situations		4	1	2	1
	PC11. develop new ideas for work procedures		5	2	2	1
	PC12. improve upon the existing techniques to increase process efficiency		4	1	2	1
	<b>Total</b>		<b>50</b>	<b>16</b>	<b>19</b>	<b>15</b>
		<b>Weightage %</b>		<b>32.0%</b>	<b>38.0%</b>	<b>30.0%</b>
<b>7.TSC/N9003 (Maintain health, safety and security at work place)</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 such as " ear plug" " nose mask " " head cap" etc., 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 procedures		4	2	1	1
	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 organisational requirements		4	1	2	1
	PC9. safely handle and remove waste		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 threat		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 organisation 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. recognise other possible security issues existing in the workplace		4	2	1	1
	PC21. recognise different measures to curb the hazards		4	2	1	1
	PC22. communicate the safety plan to everyone		4	2	1	1
	PC23. attach disciplinary rules with the implementation		4	2	1	1
	<b>Total</b>		<b>100</b>	<b>43</b>	<b>34</b>	<b>23</b>
		<b>Weightage %</b>		<b>43.0%</b>	<b>34.0%</b>	<b>23.0%</b>
<b>8.TSC/N9004 (Comply with industry and organizational</b>	PC1. perform own duties effectively	<b>50</b>	4	1	2	1
<b>l</b>	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		3	1	1	1

requirements )	existing methods					
	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 organisational 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 organisation standards		4	2	1	1
	<b>Total</b>		<b>50</b>	<b>18</b>	<b>19</b>	<b>13</b>
		<b>Weightage %</b>		<b>36 %</b>	<b>38 %</b>	<b>26 %</b>
		<b>Grand Total</b>		<b>900</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. 21 Large scale industries, 17 Medium Size industries and 18 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 – Autoconer Tenter:**

<b>S No.</b>	<b>Large scale industries</b>	<b>Medium scale industries</b>	<b>Small scale industries</b>
1.	Arvind Limited	Amaravathi Textiles Pvt. Ltd.	Ganesh Spintex
2.	DCM Textiles	Arun Spinning Mills	Raju Cotton Mills
3.	GTN Textiles-Udumalpet	Idupulapadu Cotton Mills Pvt. Ltd.	Koustubha Spinners Pvt. Ltd.
4.	Ranapolycot	Durga Polyesters Pvt. Ltd.	Hystan Spinning Mills
5.	RSWM Bhilwara	Mohan Spintex	Silver Spring Pvt. Ltd.
6.	Shiri Jayavarthan Spinning Mills	NSL Textiles Edlapadu	Sri Kandha Spinners Pvt. Ltd.
7.	Sri Venkataram Spinners	Jayadevi Mills	B.V. Fabrics
8.	ETCO Denim	Rajaram Mills	Rugmini Ram Raghav Spinners
9.	TC Spinners	Raju Spinning Mills	Palani Vijay Cottspin Pvt. Ltd.
10.	Uma Spintex	SA Anandan Spinning Mills	Shivatex yarn Ltd
11.	Kejriwal Geotech Pvt. Ltd.	Sakku Spinning Mills Ltd.	PPS Spinning Mills
12.	Welspun	Senthur Textiles	AVR Textiles
13.	Cheema Spintex Ltd.	Shri Govindaraja Textiles	Sri Balaji Textiles
14.	Vardhaman Textiles	Shri Ramalinga Mills	Sri Murugar Mills
15.	Alps Industries	Siva Swati Textile Pvt. Ltd.	Abirami Spinning
16.	Winsome Textile Industries Ltd.	Sri Jayajyoti Textile Mills	Poomagal Threads
17.	Trident Group	Sri Sai Balaji Spintex Pvt Ltd.	Subramaniam Spinning Mills
18.	National Industries Development Cooperatives Federation Ltd.		Raja Spinners

19.	Nitin Spinners		
20.	Pallava Textile Ltd.		
21.	Mafatlal Denim		
<p><b>What is the estimated uptake of this qualification and what is the basis of this estimate?</b></p> <p>The incremental Manpower Gap between 2008 and 2022 is 184167underAuto coner Tenter. This estimate has been drawn on basis of the NSDC report on skill requirement in Textiles &amp; Clothing Sector (2013-2017, 2017-2022) and employee strength data collected during industry validation process. Refer Annexure-5.</p>			
<p><b>What steps were taken to ensure that the qualification(s) does/do not duplicate already existing or planned qualifications in the NSQF?</b></p> <p>QPs for Job Roles of various related SSC's were studied to ensure that there is no duplicity</p>			
<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?</b></p> <p>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.</p>			

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
An autoconer tenter is responsible to carry out tenting activities in an autoconer machine with instructions from his supervisor. This job requires the individual to have thorough knowledge of tenting process and functioning of the machines. It involves handling the machine in a predefined set of routine process but he also remains proactively involved in segregating the quality cops, creeling the cops, ensuring proper splicing, carrying out routine cleaning and maintenance activities to ensure that the productivity and quality are maintained.	An autoconer tenter needs to know the process flow in a spinning mill, material flow in a spinning mill, quality systems, colour coding, importance of Autoconer and cone package formation. Understand the importance of different types of fibres, yarn and yarn count and yarn defects. 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 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 & free of errors. Demonstrates repetitive skills like procedure for operating different material handling tools and equipments, standard procedure for filling the cops, restarting the winding unit post doffing, doffing and weighing cone package and carrying out maintenance activities in different parts of autoconer machine and also maintains neatness at work.	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. Applies problem-solving approaches in different situations during the production and 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.	This operator takes instructions from his supervisor and clarifies doubts regarding repairs attended/changes made in previous shift and adheres to the instructions received and the company policies. He is responsible for ensuring the autoconer runs smoothly by immediately reporting problems to the supervisor, carrying out general tenting activities, Filling the ring cops and doffing the cone package, maintaining work area and tools by doing basic cleaning. This operator works under the supervision of his supervisor but is responsible for his activities and for keeping the machine running.	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:

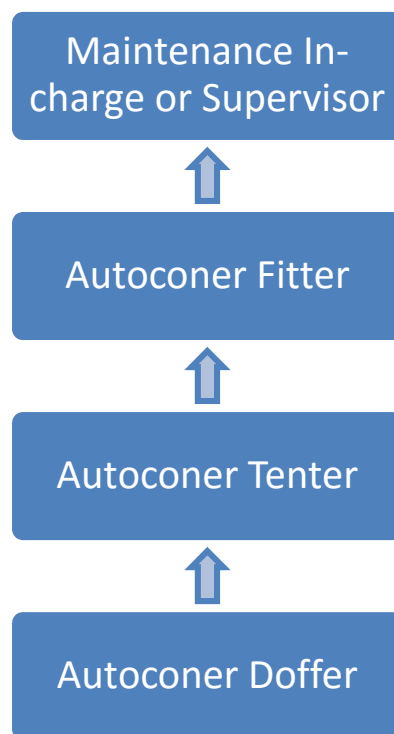
2. Career Path of Autoconer Tenter - Annexure 1
3. QP TSC/ Q 0301- Annexure 2

## Annexure 1

### OM & Career Path

The career progression would be as follows:

1. Autoconer Doffer
2. Autoconer Tenter
3. Autoconer Fitter
4. Maintenance In-charge or Supervisor





[Annexure 2- QP TSC/ Q 0301](#)

**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](#)