

NSDA Reference
To be added by NSDA

Name and address of submitting body:

Textiles Committee (Ministry of Textiles, Govt. Of India)

P Balu Road, Prabhadevi Chowk,

Mumbai -400025

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 Auto Coner Machine Operator
2. Auto Coner Machine Operator Course Module
3. Format for RFP for Assessment Agency Accreditation from RSA
4. Assessment Protocol developed by RSA
5. Skill gap report for textile sector
6. Assessment Sheet.
7. Photographs and attendance sheets of Validation programmes

SUMMARY

Qualification Title	Auto Coner Machine Operator
Qualification Code	TC SPG 07
Nature and purpose of the qualification	A certificate course under ISDS (A project of Govt. Of India) Purpose: To convert a non worker (layman) into a worker (able to work as an Auto Coner Machine Operator)
Body/bodies which will award the qualification	Textile committee (RSA) under the Ministry of textiles
Body which will accredit providers to offer courses leading to the qualification	Ministry of Textiles/Office of Textile Commissioner/ Resource Support Agency (Textiles Committee)
Body/bodies which will carry out assessment of learners	<ul style="list-style-type: none"> • Andhra Pradesh Productivity Council • Apparel Export Promotion Council • Axis Education Society • Base Research Consulatncy services Private Limited • C.K.Skill Research & Development Ltd. • Centre for Recruitment and Selection Pvt Ltd • Crux Mangement Services Pvt Ltd • Eduworld Consultants Pvt Ltd. • Employable Skills Advancement Assessmetn and Certification LLP (ESAAC LLP) • Fashion Futures • Federation of Indian Chamber of Commerce and Industry (FICCI) • Federation of Indian Women Entrepreneurs (FIWE) • Human Potential Development Center • Induslynk Training services Pvt. Ltd. • Itcot Consultancy & Services Ltd. • K S Rangasamy Institute of Technology

- Kapokh Fibers & Industries Ltd.
- Manipal City & Guilds Pvt. Ltd
- Methods Apparel Consultancy India Pvt Ltd.
- Multi Skills Assessors Guild (MSAG)
- National Institute of Fashion Technology (NIFT)
- Nice Education & Welfare Trust
- Northern India Textile Research Association (NITRA)
- PSG College of Technology
- PVR Skill Central Pvt Ltd.
- Quibus Technologies Pvt Ltd
- Skills Training Assessment Management Partners Ltd. (STAMP)
- Sona Cotsyn Pvt Ltd
- Techno Tex Informatics Pvt Ltd.
- The Assessors Guild (TAG)
- The Associated Chambers of Commerce And Industry of India (ASSOCHAM)
- Trendsetters Skill Assessors Pvt Ltd.
- TUV SUD South Asia Pvt Ltd
- University of Calcutta

Remarks: All the above mentioned agencies are authorised to conduct assessment Textile and Clothing sector which includes the said qualification.

Occupation(s) to which the qualification gives access Auto Coner Machine Operator

Licensing requirements N/A

Level of the qualification in the NSQF 2

Anticipated volume of training/learning required to complete the Not less than 300 hrs

qualification			
Entry requirements and/or recommendations		The candidate should be able to read and write any language	
Progression from the qualification		From Auto Coner machine operator to a Jobber in Open end spinning operations.	
Planned arrangements for the Recognition of Prior learning (RPL)		NA	
International comparability where known		N/A-	
Date of planned review of the qualification.		20.09.2018	
Formal structure of the qualification			
Title of component and identification code.	Mandatory/ Optional	Estimated size (learning hours) (learning hours)	Level
	Optional		
Theoretical Knowledge to impart relevant basic technical information of the machines and it's operations	Mandatory	60	2
Practical knowledge of the course to understand the work practises and operating the machines.	Mandatory	210	2
Soft Skills to improve safety, behaviour, hygiene, attitude, etc.	Mandatory	30	2

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

1. Auto Coner Machine Operator course module – Annexure II

SECTION 1
ASSESSMENT

Body/Bodies which will carry out assessment:

- Andhra Pradesh Productivity Council
- Apparel Export Promotion Council
- Axis Education Society
- Base Research Consulatncy services Private Limited
- C.K.Skill Research & Development Ltd.
- Centre for Recruitment and Selection Pvt Ltd
- Crux Mangement Services Pvt Ltd
- Eduworld Consultants Pvt Ltd.
- Employable Skills Advancement Assessmetn and Certification LLP (ESAAC LLP)
- Fashion Futures
- Federation of Indian Chamber of Commerce and Industry (FICCI)
- Federation of Indian Women Entrepreneurs (FIWE)
- Human Potential Development Center
- Induslynk Training services Pvt. Ltd.
- Itcot Consultancy & Services Ltd.
- K S Rangasamy Institute of Technology
- Kapokh Fibers & Indutries Ltd.
- Manipal City & Guilds Pvt. Ltd
- Methods Apparel Consultancy India Pvt Ltd.
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- National Institute of Fashion Technology (NIFT)
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- PVR Skill Central Pvt Ltd.

- Quibus Technologies Pvt Ltd
- Skills Training Assessment Management Partners Ltd. (STAMP)
- Sona Cotsyn Pvt Ltd
- Techno Tex Informatics Pvt Ltd.
- The Assessors Guild (TAG)
- The Associated Chambers of Commerce And Industry of India (ASSOCHAM)
- Trendsetters Skill Assessors Pvt Ltd.
- TUV SUD South Asia Pvt Ltd
- University of Calcutta

These assessing agencies have been chosen through a transparent process after thorough scrutiny of the credentials presented in response to the two stage RFPs. All of them have prior experience of minimum 2 years of carrying out similar assessments in the field of textiles. On the directions of ministry, RSA has empanelled agencies from the different sector skill councils viz. Textile Sector Skill Council (TSC) and Apparel and Home Made-ups Sector Skill Councils (AMHSSC). An assessment protocol, in this regard has also been prepared and forwarded to all the assessment agencies so as to standardise the assessment process. The assessors of the above said agencies are approved for assessment only after thorough scrutiny of their (assessor) documents submitted by the agencies. In this regard, the agencies forward the fully filled Know Your Assessor (KYA) form along with requisite documents. The empanelled Assessment Agencies were allotted regions. The above exercise was done on the directions of Ministry of Textiles. Further, to maintain the quality in assessment, RSA occasionally conducts surprise checks to monitor the activities of assessment agencies.

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

The Implementing Agencies will assess the RPL at the time of enrolling the candidates.

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 Sheets are developed by Subject Matter Experts (SME) available with the Resource Support Agency.
- c) The assessments sheets are also checked for the various outcome based parameters such as technical knowledge, soft skills, Practical Knowledge, & 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

Auto Coner Machine Operator are also assessed.

- 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 that they are not associated with any other assessment agencies or any training partner to avoid any 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 Protocol
- g) The documents of the assessors selected by Assessment Agencies are then forwarded to RSA for further scrutiny.
- h) The selected assessors are provided with unique assessor id by RSA as per the assessment protocol.

The assessment results are backed by evidences collected by assessors.

1. The assessor ensures that the attendances of the trainees are equal to or more than 60%.
2. The assessor needs to verify the authenticity of the candidate by confirming the biometric identity. In case of suspicion, the assessor should authenticate and cross verify trainee's credentials in the enrolment form.
3. The assessor collects the assessment summary sheet with signature of both the assessor and the Implementing Agency's coordinator after successful completion of the assessment.
4. The assessor also needs to carry a photo ID card.
5. The assessor verifies whether the training infrastructure is in compliance to the criteria as set by RSA.
6. The details on assessment are elaborated in the Assessment Protocol developed by RSA.

All accredited Assessment Agency follow the "Assessment Protocol developed by RSA". Each course module comprises of soft skills, theoretical part and practical and accordingly the assessment sheets are prepared. The marks for the theoretical and practical assessment, in total, are calculated and the candidates acquiring marks equal to or more than 60% are declared pass.

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

Give details of the document(s) here:

1. Format of RFP for AA Accreditation from RSA- Annexure III
2. Assessment Protocol Developed by RSA – Annexure IV

ASSESSMENT EVIDENCE

Learning outcomes would be assessed separately for practical as well as theoretical knowledge by the assessment agency.

Title of Course Module: Auto Coner Machine Operator.

Learning Outcomes			Total Weitage (in %age)
1. Practical Assessment	Identification of different parts of autoconer machine.	4.5	45
	Identification of possible causes for stoppage	4.5	
	Doffing of the package	4.5	
	Cleaning of the lapping.	4.5	
	Wax roller/bush replacement	4.5	
	Starting and stopping of winding units	4.5	
	Meaning of different signal lights on autoconer machine.	4.5	
	Meaning of different parameters in the display of autoconer machine.	4.5	
	Identifying bobbins containing different fibres.	4.5	
	Dos & Don't's in case of fire or any emergency situation.	4.5	

2. Theoretical Assessment	Count of yarn in autoconer machine.	4.58	55
	Functions of a autoconer machine	4.58	
	Different types of defects.	4.58	
	Functions of different parts of autoconer machine.	4.58	
	Path of yarn in a autoconer machine	4.58	
	Types of packages.	4.58	
	Safety precautions while operating the machine	4.58	
	Different safety equipments	4.58	
	Components of a first aid box?	4.58	
	Attitude of the worker towards work and work place?	4.58	
	Different machines in a spinning department?	4.58	
	Importance of colour coding	4.58	
		Weightage %	
	Grand Total	100	

Title of Component: Auto Coner Machine Operator

Outcomes to be assessed	Assessment criteria for the outcome
<p>Practical Outcome:</p> <ul style="list-style-type: none"> • Operating the Machine, Feeding the input material • understand the signal lamp's indications and work accordingly • attending to winding heads having repeated breaks, filling the batteries with spinning cops • weighing the full cones, doffing the full cones • collecting & disposing the waste. 	<ul style="list-style-type: none"> • It will be observed by the assessor whether he/she is able to operate (switch on and off) the machine in presence of an experienced operator. • It will be observed by the assessor whether he/she is feeding the raw material to the machine properly or not. Example: Feeding of yarn from ring cops into the winding zone without breakage. • The operator should be able to identify different types of defects by visual examination. • The assessor will ask him/her meaning of different signals in the machine by lighting false signals in presence of an experienced operator. • It will be observed by the assessor whether he/she is able to attend the breakages properly in optimum time or not. Example: The assessor will break the yarn at feeding and the trainee will be asked to restart the machine. • The trainee will be asked about colour codes and to dispose the waste separately from the bunch of different wastes.
<p>Theoretical Outcome:</p> <ul style="list-style-type: none"> • Knowledge of basic textile terms • different parts of machine and their functions • operating the machines, defects and their remedies, doffing • importance of colour code to be followed • responsibilities during shift change. <p>Safety precautions</p>	<ul style="list-style-type: none"> • The trainee will be asked different questions (given in the assessment sheet) about basic textile terms by the assessor. • Based upon the assessment sheet the assessor will ask him/her about different type of defects in the package and reasons for the same. • Randomly the assessor will ask functions of different parts of the machine. • The assessor will ask him/her how to operate the machine (without showing him/her the machine). • Questions regarding different kinds of defects and their remedies will be asked by the assessor. • Questions regarding meaning of different colours codes will be asked. <p>Different questions regarding shift change (example: how you will give the charge to the next operator) and safety precautions like how to wear the protective gear properly, use of</p>

	first aid etc. will be asked by the assessor.
Means of assessment 1	
Questionnaire and practical observation (Annexure-VI)	
Means of assessment 2	
N/A	
Pass/Fail	
Qualified or Not qualified. Only after qualifying the certificate will be awarded.	

SECTION 2
EVIDENCE OF LEVEL
OPTION A

Title/Name of qualification/component: Auto Coner Machine Operator			
			Level: 2
NSQF Domain	Outcomes of the Qualification/Component	How the job role relates to the NSQF level descriptors	NSQF Level
Process	The Auto Coner Machine Operator - is allotted machines by his supervisor and is responsible for carrying out all activities involved in working as an operator in Auto Coner like keeping ready in the creel the rightly colour coded empty cones, Filling the battery with correct colour code spinning cops and periodically collecting & disposing waste generated,	The processes like feeding the input material, attending breaks, filling creels, collecting and disposing waste generated etc. are repetitive and this is done on a regular basis with a little of application of understanding like proper pressure should be maintained while winding. Attending the breaks, doffing etc. require practice so as to work efficiently.	2

Title/Name of qualification/component: Auto Coner Machine Operator			
			Level: 2
NSQF Domain	Outcomes of the Qualification/Component	How the job role relates to the NSQF level descriptors	NSQF Level
	ensure proper functioning of the machines, periodic cleaning of the machines etc.,.The operator should be able to operate material handling equipments, weighing balance and should be able to understand the programmes, emergency control, etc of machine. Carry out regular preventive maintenance to ensure proper working for required quality and productivity		
Professional knowledge	An Auto Coner Machine Operator needs to know the process and material flow in a textile mill, functioning of different types of spinning and post spinning machines and their controls and guidelines for operating the machines, refilling batteries with spinning cops, creeling with empty cones oiling and greasing , etc,. Understanding of various varieties of yarn being wound, defects in spinning cops and cones, collection & disposal of hard waste generated.	Application of materials like cops, cones and tools like weighing balance. The operator understands context of work and quality like if there is not proper tension maintenance it will result in yarn breakage and imperfections which finally affects the uniformity of yarn.	2
Professional skill	The operator takes charge of shift and operates the Auto Coner allotted on routine basis as per instructions from supervisor, provides suggestions in the interest of the company, and extends voluntary support wherever required. Also identifies the cause of a problem and applies problem-solving approach to get the best suitable solution, refers defects/erratic functioning of the machine to the supervisor.	Limited service skills used in limited context like operating the machine, proper feeding,delivery and waste collection etc.; assist in professional works with no variables; differentiates good and bad quality like how to maintain the process flow with no or little deterioration in quality.	2

Title/Name of qualification/component: Auto Coner Machine Operator			
			Level: 2
NSQF Domain	Outcomes of the Qualification/Component	How the job role relates to the NSQF level descriptors	NSQF Level
Core skill	This operator writes clear and short sentences, comprehends written instructions, communicates with the supervisor appropriately and talks to others to convey information effectively.	Receive and transmit written and oral messages like the operator received written instruction from the shift officer and transmit them to the fitter or the lab guy as required. The operator knows basic calculations like addition, subtraction etc. and he uses the same for ring cops and final package collection purpose.	2
Responsibility	This operator takes charge of the shift after discussing in the issues faced with respect to the quality, production and safety, reports to his shift superior about issues faced in his shift and leaves the department. He /She works under instructions with close supervision. He / She contributes for safe & healthy work environment and follows the industry & organizational compliances.	As the worker leave the premises after discussing the issues faced during the shift, no responsibility lies on the operator. The shift supervisor takes up the matter and resolves the problem, if any. The operator works under instruction and close supervision. The operator operates the machine and do the delivery and waste collection as instructed by the supervisor.	2

SECTION 3

EVIDENCE OF NEED

What evidence is there that the qualification is needed?

Different course validation programs were conducted the details of which is mentioned below:

1. Validation program of Spinning and Weaving course modules developed by RSA was conducted at Coimbatore (Ref. RSA fortnightly report as on 29.05.2015 to MoT).
2. Validation program of Processing, Knitting and Apparels course modules developed by RSA was conducted at Tirupur (Ref. RSA fortnightly report as on 29.05.2015 to MoT).
3. Workshop on course content validation was held in New Delhi on 29.06.2015.
4. One day orientation program on course content and assessment on 13th August, 2015 was conducted in New Delhi.
5. Two validation programs were conducted at Ludhiana and Panipat on 2nd June, 2015 and 03rd June, 2015 respectively.
6. Industrial consultation workshop with the stake holders, traders and industry for course content developed by RSA was organized on Saturday. 31.05.2015 at Coimbatore for validation.

Participants from Industry, Implementing Agencies and Assessment Agencies participated in the validation programs. Based on the feedback from participants suitable modifications in the course module were incorporated and also some more modules were developed.

List of industries involved in the Validation process:

- SITRA, Coimbatore
- TASMA, Dindigul
- ALPINE Knits India Pvt. Ltd.
- NIFT, Tirupur
- Nitin Textiles Pvt. Ltd., Dindigul
- Saravana Spg. Mills Pvt. Ltd. Dindigul
- Gomathi Spinning Mills, Tirupur
- Quantum Knits
- G K Consultancy
- BRT Spinners Pvt. Ltd.
- Sky Cotex India Pvt. Ltd.
- KCT, Copimbatore
- Raghav Industries limited
- Textile Technology Kumaraguru College
- NIFTTEA College, Tirupur
- CBC Tirupur
- SCM Textiles
- Sri Karthikeya Spg. Mills
- ELLITE Textiles
- Aatharva Garments
- ATDC-ERODE
- ATDC-Tirupur
- Santhosh Spg mills
- Sri Venkateshwara Spg. Mills

- Venilakshmi Mills
- Hi Tech Spg. Mills
- Sunder Textiles
- SISPA
- Bhaskar Foundation
- CMAI-Mumbai
- ALT Kanpur
- RSWM, Banswara
- RSWM, Bhilwara
- Modelama Exports
- Textile Association Delhi
- Matric Clothing Pvt. Ltd (ASDA)
- NEED
- Institute of Jute Technology, DJFT, CU
- Dhruv international pvt. Ltd.
- Shri lakshmi Cotsyn
- NTC- New Delhi
- AMH-SSC
- Laj Exports Ltd, noida
- Technopak Advisors Pvt. Ltd.
- Wazir Advisors
- Golden Trends Pvt. Ltd.
- IL&FS Clusters
- SPINFED Odisha
- Orient Craft Limited
- India Fashion
- U K International
- Shivalik Prints
- Feather Touch
- Sampada tex
- Kapoor Industries panipat
- Paliwal Industries
- Rivira Home Furnishings
- Dashmesh Jacquard and Powerloom
- Mittal Industries
- Anand International
- Harisons Overseas
- Khurana Furnishing Pvt. Ltd.
- R H F Pvt. Ltd.
- ESKAY Enterprise
- Hometex Design
- Abhishek Textiles
- R P Overseas
- FAZE3

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

As per the report of NSDC on Human Resource and Skill Requirement in Textile and Clothing Sector (2013-17, 2017-22) (Annexure-5): Currently, 15.23 million people are employed in the textile sub-sector across yarn and fabric, home textiles, technical textiles and readymade garments. Human resource requirement in the sector is expected to reach 21.54 million by 2022 translating into 6.31 million additional employment opportunities during the period 2013-22. Also the National Textile Policy aims to create 35 million jobs and achieve exports worth INR 18 lakh crores by 2024-25 with the help of investments. Draft proposal for the same was submitted by expert panel constituted by the government on 28th July, 2014.

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 for the claimed levels i.e. level 2

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 reviewed or updated?

Version 1 of the courses has been prepared and uploaded on Textiles Committee website and next version will be prepared by September 2018. Feedback for the courses will be collected 6 months prior to the revision and format for the said purpose will be prepared and uploaded to TC website for receiving the comments from the stake holder for any change, if required, in the said course. Further, the feedback form will be sent to all the Implementing Agencies under MoT for their necessary comments before taking the exercise of revision of version-1.

After receiving feedback and compiling the same the necessary amendments, if required, will be made and all the course will be revised by the team of experts in the domain field.

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 V

SECTION 4

EVIDENCE OF PROGRESSION

What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?

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

ANNEXURE-I

Career map of Auto Coner Machine Operator:

By acquiring this qualification the operator will be able to operate Auto coner machines. After giving some extra training the operator will be able to operate other Autoconer, other winding machines etc.

