

## QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR TEXTILE SECTOR

### What are Occupational Standards(OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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## Introduction

### Qualifications Pack – Automatic Shuttle Loom Operator

**SECTOR: TEXTILE**

**SUB-SECTOR: WEAVING**

**OCCUPATION: WEAVING**

**REFERENCE ID: TSC/Q 2201**

**ALIGNED TO: NCO-2004 / 7432.55**

**Brief Job Description:** An operator of an Automatic Shuttle Loom, is a job-role in the weaving department. The responsibility of the operator of the loom is to run the loom efficiently so as to get maximum output with minimum defects, giving due importance to safety and environment aspects.

**Personal Attributes:** An Automatic Shuttle Loom operator should have good eyesight, eye-hand coordination, motor skills and vision (including near vision, distance vision, colour vision, peripheral vision, depth perception and ability to change focus).

Job Details	Qualifications Pack Code	TSC/Q 2201		
	Job Role	Automatic Shuttle Loom Operator		
	Credits (NSQF)	TBD	Version number	1.0
	Sector	Textile	Drafted on	15/12/14
	Sub-sector	Weaving	Last reviewed on	21/01/15
	Occupation	Weaving	Next review date	01/03/16
	NSQC Clearance On	20/07/2015		

Job Role	Automatic Shuttle Loom Operator
Role Description	To run automatic shuttle loom efficiently so as to get maximum output with minimum defects, giving due importance to safety & environmental aspects.
NSQF level	4
Minimum Educational Qualifications	Preferably Class 10th
Maximum Educational Qualifications	NA
Training (Suggested but not mandatory)	Preferably training in weaving department.
Minimum Entry Age	18 years
Experience	Not essential
National Occupational Standards (NOS)	<p><b>Compulsory:</b></p> <ol style="list-style-type: none"> <li><a href="#">TSC/ N2201 Taking charge of shift and handing over shift to Automatic Shuttle Loom Operator</a></li> <li><a href="#">TSC/N2202 Running automatic shuttle loom</a></li> <li><a href="#">TSC/ N9001 Maintain work area, tools and machines</a></li> <li><a href="#">TSC/ N9002 Working in a team</a></li> <li><a href="#">TSC/ N9003 Maintain health, safety and security at workplace</a></li> <li><a href="#">TSC/ N9004 Comply with industry and organizational requirement</a></li> </ol> <p><b>Optional:</b> Not Applicable</p>
Performance Criteria	As described in the relevant OS units

## Glossary of Key Terms

Table 1: Glossary of Key Terms

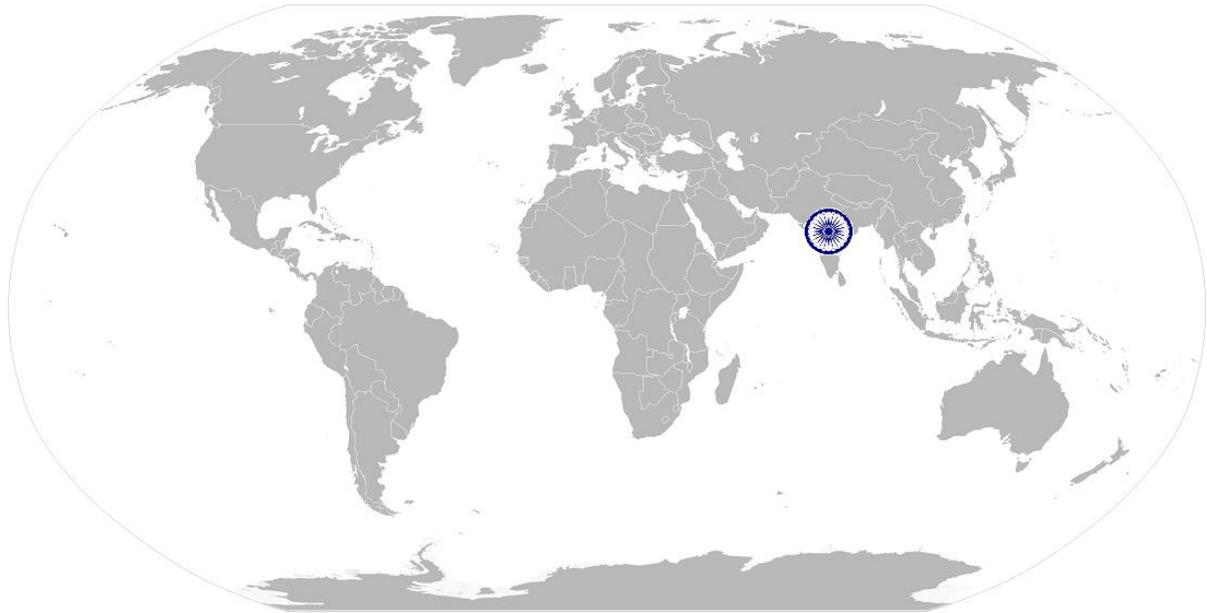
Definitions	Keywords /Terms	Description
	Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
	Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
	Vertical	Vertical may exist within a sub-sector representing different domain areas or the client industries served by the industry.
	Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
	Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.
	Sub-functions	Sub-functions are sub-activities essential to fulfill the achieving the objectives of the function.
	Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
	Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
	Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context.	
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.	
Qualifications Pack(QP)	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.	
Unit Code	Unit Code is a unique identifier for an OS unit, which can be denoted with either an 'O' or an 'N'.	
Unit Title	Unit Title gives a clear overall statement about what the incumbent should be able to do.	

Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is the set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on the quality of performance required.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
Organizational Context	Organizational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.
Helpdesk	Helpdesk is an entity to which the customers will report their IT problems. IT Service Helpdesk Attendant is responsible for managing the helpdesk.
<b>Keywords /Terms</b>	<b>Description</b>
SSC	Sector Skill Council
OS	Occupational Standard(s)
NOS	National Occupational Standard(s)
QP	Qualifications Pack
NSQF	National Skill Qualification Framework
NCO	National Classification of Occupations
TBD	To Be Determined
TSC	Textile Sector Skill Council
NSDC	National Skill Development Corporation

Acronyms

TSC/ N2201 Taking charge of shift and handing over shift to Automatic Shuttle Loom Operator

# National Occupational Standard



## Overview

This unit is about taking charge of shift from previous shift Automatic Shuttle Loom Operator and relieving the responsibilities to the next shift Automatic Shuttle Loom Operator

**TSC/ N2201 Taking charge of shift and handing over shift to Automatic Shuttle Loom Operator**

National Occupational Standard	<b>Unit Code</b>	<b>TSC/ N2201</b>
	<b>Unit Title (Task)</b>	<b>Taking charge of shift and handing over shift to Automatic Shuttle Loom Operator</b>
	<b>Description</b>	This unit is about taking charge of shift from previous shift Automatic Shuttle Loom Operator and relieving the responsibilities to the next shift Automatic Shuttle Loom Operator
	<b>Scope</b>	<p><b>This unit/task covers the following:</b></p> <ul style="list-style-type: none"> <li>• Taking charge of the shift from Automatic Shuttle Loom Operator</li> <li>• Handing over the shift to Automatic Shuttle Loom Operator</li> </ul>
	<b>Performance Criteria (PC) w.r.t. the Scope</b>	
	<b>Elements</b>	<b>Performance Criteria</b>
	<b>Take charge of the shift from Automatic Shuttle Loom Operator</b>	<p>To be a competent you must be able to :</p> <p>PC1. come at least 10 - 15 minutes earlier to the work spot</p> <p>PC2. bring the necessary operational tools like weavers' hook knife etc.</p> <p>PC3. meet the previous shift weaver &amp; discuss with him/ her regarding the issues faced by them with respect to the quality, production, spare, safety or any other specific instruction etc.</p> <p>PC4. check for the availability of the weft &amp; the condition of the same</p> <p>PC5. check the condition of the running beams for cross ends, ends pulling out particularly at the selvedge</p> <p>PC6. check the availability of the thrums their quality &amp; condition of the same</p> <p>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.</p> <p>PC8. check for the size of the cloth rolls &amp; to see whether any indication is there in the cloth rolls</p> <p>PC9. check the cleanliness of the machines &amp; other work areas</p> <p>PC10. check whether any spare/raw material/ tool / fabric/ any other material are thrown under the machines or in the other work areas.</p> <p>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</p>
	<b>Handing over the Shift to Automatic Shuttle Loom Operator</b>	<p>PC12. hand over the shift to the incoming weaver in a proper manner &amp; get clearance from him before leaving the work spot</p> <p>PC13. report to his/ her shift superiors as well as that of the incoming shift, in case his/ her counterpart doesn't report for duty, in that case, the shift has to be properly handed over to the incoming shift superior &amp; get clearance from him/ her before leaving the work spot</p> <p>PC14. report to his/ her shift superior about the quality / production / safety issues/ any other issue faced in his/ her shift and should leave the department only after getting concurrence for the same from his/ her superiors</p> <p>PC15. ensure the work place is neat &amp; tidy</p>

**TSC/ N2201 Taking charge of shift and handing over shift to Automatic Shuttle Loom Operator**

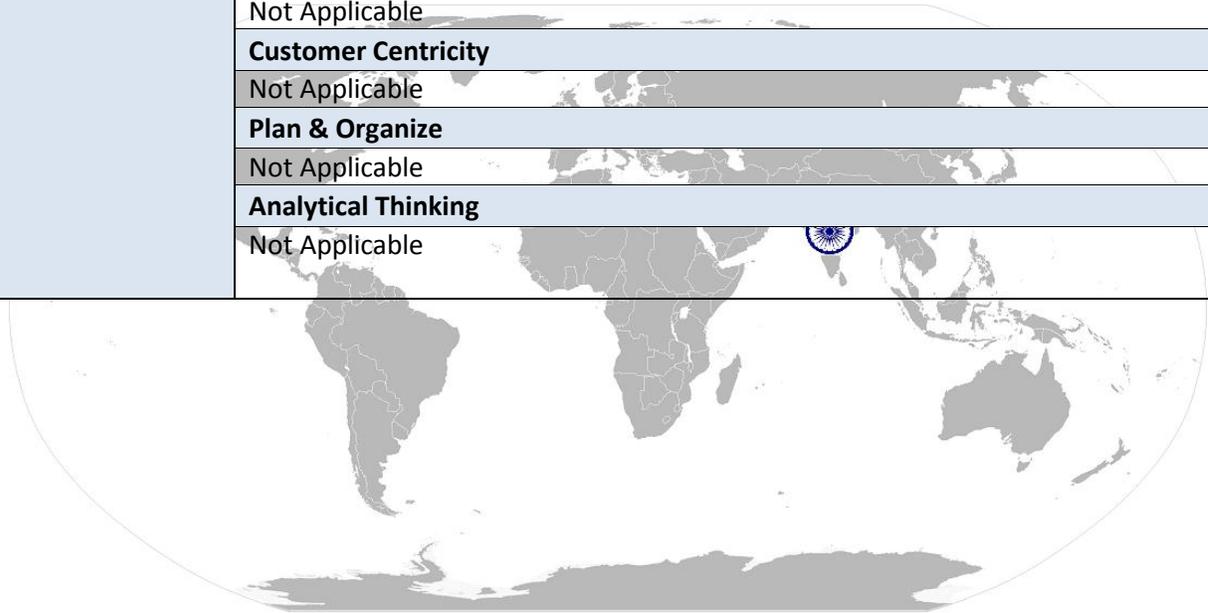
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company/ organization and its processes)	The individual on the job needs to know and understand: KA1. the organization's policies & standard operating procedures (SOP) and its process KA2. should have an awareness & knowledge of customers KA3. potential hazards associated with the machines and the safety precautions that must be taken KA4. protocol to obtain more information on work related tasks KA5. contact person in case of queries on procedure or products and for resolving issues related to defective machines, tools, materials & equipment etc KA6. details of the various job roles & responsibilities KA7. documentation and reporting formats KA8. work targets & reviews with superiors KA9. protocol and format for reporting work related risks/ problems KA10. method of obtaining /giving feed back with respect to performance KA11. importance of team work harmonious working relationships KA12. process for offering /obtaining work related assistance KA13. responsibilities under health, safety and environmental legislation KA14. guidelines for storage & disposal of waste materials
<b>B. Technical/Domain Knowledge of product</b>	The user/individual on the job needs to know and understand: KB1. the minimum quality requirements of the product with respect to permissible/non-permissible defects KB2. fabric quality particulars such as ends & picks per inch, width, products weave etc.
<b>About the Raw materials</b>	KB3. yarns from natural fibers - cotton, silk, wool KB4. yarns from manmade fibers - polyester, nylon, viscose KB5. blended yarns - polyester cotton, polyester viscose
<b>About different types of Looms</b>	KB6. Process flow and material flow in a weaving mill KB7. Standard procedure to operate automatic shuttle loom KB8. Functions & operation of various controls of automatic loom KB9. Knowledge of waste collection systems & their use. Safety procedures to be followed at work place KB10. tappet loom/ cam loom/ crank loom , dobby loom, jacquard loom
<b>About types of weave</b>	KB11. plain weave, twill , drill, plain satin, stripe satin , dobby designs , jacquard designs
<b>Causes for fabric defects: due to weaver, due to loom, due to other reasons</b>	KB12. wrong drawing , wrong denting, end out , double end, broken pick, double pick, missing pick, hand stain , hole, wrong weft, bad selvedge, KB13. end out, let-off, take- up problem, temple mark, temple cut, emery hole/ emery cut/ emery mark, broken pick, missing pick, double pick, short pick, snarls, impression mark, oil stain, lashing in, weft catching, selvedge cut, loops, weft stitches, warp stitches, bumping mark, weft crack, cloth torn , bad shedding, warp floats, weft floats, reed mark, bad selvedge, starting mark, thin & thick place , hair line crack,

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	<p>KB14. weaving faults - thin place, thick place, neps, kitties, contamination, color flies, yarn variation, shade variation</p> <p>KB15. sizing faults - shade variation, size patches, sizing oil, bead formation,</p> <p>KB16. weaving faults - wrong weft, wrong pattern, less width, low epi, low ppi, wrong warp,</p>
<b>Inspection Standard</b>	KB17. four point American system
	KB18. British System of grading Cuttable Faults, Warp Way Continuous Faults, Specification Deviations
	KB19. KB20. American System KB21.
<b>Safety Mechanism</b>	<p>KB22. should know the safety mechanisms of the machines &amp; ensure that the same are in order</p> <p>KB23. should know about the functions of stop motions &amp; ensure that the same are in order</p> <p>KB24. should know about the functions of various indication lamps &amp; ensure that the same are in order</p>
<b>Machine Operators</b>	KB25. should know about the functional operations of the machines, where he/she is working
<b>Skills (S) w.r.t the Scope</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	You need to know and understand how to: SA1. write clear and short sentences
	<b>Reading Skills</b>
You need to know and understand how to: SA2. comprehend written instructions	
<b>B. Professional Skills</b>	On the job the individual should be able to: SB1. read, write and communicate orally in local language SB2. plan and manage work routine based on instructions from supervisor SB3. should willingly participate in the various programs/ meetings that are conducted by the superiors & put forth the suggestions in the interest of the company SB4. participate in the " quality circles" formed by the superiors SB5. should extend voluntary support and adapt to the various procedures and SB6. compliances for the different certifications like "ISO 9001", "ISO 14001", SA 8001", GOTS certification " fair trade " etc.
	<b>Weaver's Knot</b>
	On job the individual should be able to achieve the following skills : SB7. one should put a minimum of 15 knots/ minute
	<b>Battery Filling</b>
	SB8. should be able to fill around 24 pirns in a battery in a maximum period of 2

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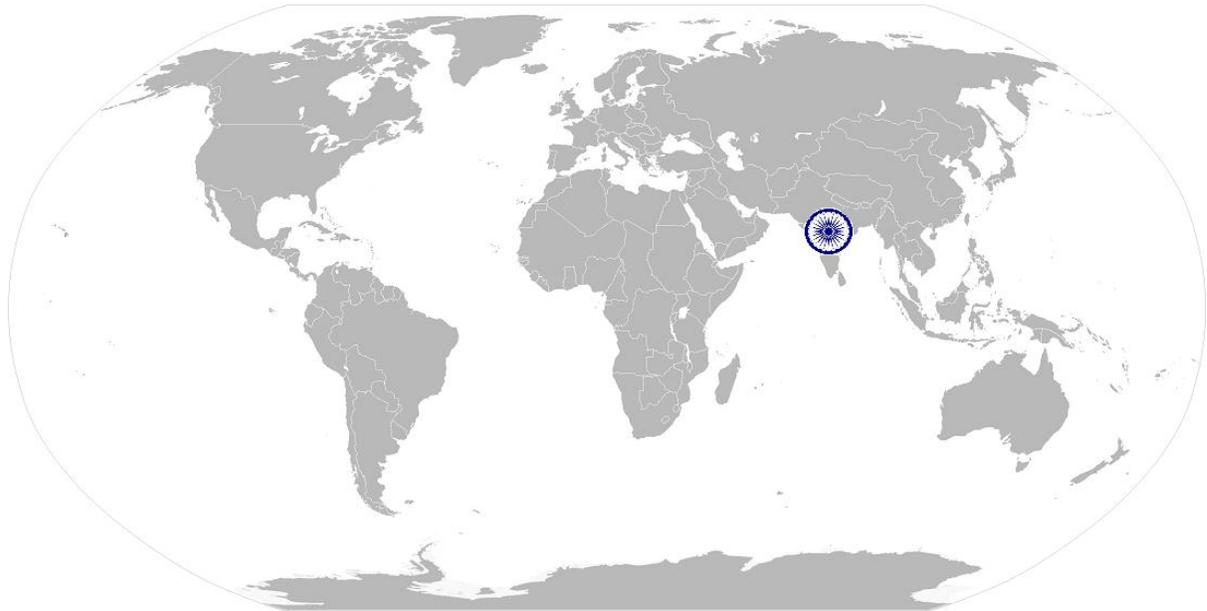
	minutes
	<b>Attending to Warp/ Weft Break</b>
	SB9. one should attend battery filling with proper pick finding in 30 seconds SB10. one should attend a single warp end through dropper, heald & reed dent in 45 to 60 seconds depending on the automation of the machines/ type of weave etc.
	<b>Quality Evaluation</b>
	SB11. should be able to weave fabric free from weaver oriented damages such as wrong drawing, wrong denting, end out, double end etc.
	<b>Problem Solving</b>
	Not Applicable
	<b>Decision Making</b>
	Not Applicable
	<b>Customer Centricity</b>
	Not Applicable
	<b>Plan &amp; Organize</b>
	Not Applicable
	<b>Analytical Thinking</b>
Not Applicable	



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**NOS Version Control**

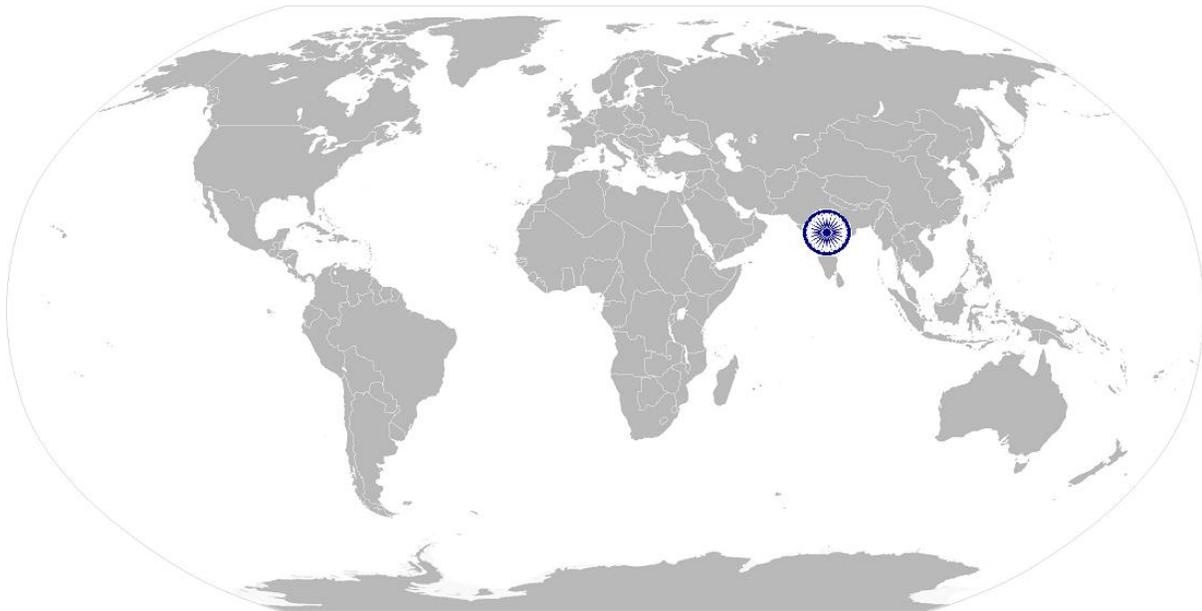
<b>NOS Code</b>	<b>TSC/ N2201</b>		
<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Textile</b>	<b>Drafted on</b>	<b>15/12/14</b>
<b>Industry Sub-sector</b>	<b>Weaving</b>	<b>Last reviewed on</b>	<b>21/01/15</b>
<b>Occupation</b>	<b>Weaving</b>	<b>Next review date</b>	<b>01/03/16</b>



TSC/N2202

Running automatic shuttle loom

# National Occupational Standard



## Overview

This unit provides performance criteria, knowledge & understanding and skills & abilities required to run an automatic shuttle loom, by attending to warp breakages, weft breakages so as to get maximum output & minimum defects.

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<b>Unit Code</b>	<b>TSC/ N2202</b>
<b>Unit Title (Task)</b>	<b>Running automatic shuttle loom</b>
<b>Description</b>	This unit provides performance criteria, knowledge & understanding and skills & abilities required to run an automatic shuttle loom, by attending to warp breakages, weft breakages so as to get maximum output & minimum defects.
<b>Scope</b>	<p><b>This unit/task covers the following:-</b></p> <ul style="list-style-type: none"> <li>• Weaver's knot</li> <li>• Attending to Warp Breaks</li> <li>• Attending to Weft Break</li> <li>• Battery Filling</li> <li>• Other Work Practices</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Elements</b>	<b>Performance Criteria</b>
<b>Weaver's knot</b>	To be a competent you must be able to : PC1. make tiny & firm weaver's knots & take minimum time to knot
<b>Attending to Warp Breaks</b>	PC2. find out broken warp ends PC3. find out the location of the broken end by bringing the hands under the dropper bars in case of machines with mechanical droppers . PC4. detect the location using the indication lamp & by bringing the hands over the droppers in case of machines with electrical warp stop motion PC5. mend the broken warp end in the sized beams with the thrums of the same count of the sized beams PC6. draw the mended warp yarn through the healds properly as per the drawing order prescribed PC7. draw the mended warp yarn through the reed dent properly PC8. ensure that the sley has been brought to the back centre PC9. ensure that the shuttle is inserted fully in the shuttle box PC10. run the loom by pulling the starting handle with full torque
<b>Attending to Weft Break</b>	PC11. ensure that the sley has to be brought the back centre PC12. take out shuttle from shuttle box PC13. do the pick finding PC14. find out the last pick inserted in the produced cloth PC15. tie sley to the back centre after the pick finding PC16. insert shuttle into the correct box as per the pick finding done PC17. ensure that the shuttle is inserted fully in the shuttle box PC18. bring the loom to the front centre to see that there is no gap between the reed & the fell of the cloth & adjust the take up accordingly PC19. bring back sley to centre PC20. Ensure that the shuttle is inserted fully in the shuttle box PC21. run the loom by pulling the starting handle with full torque
<b>Battery Filling</b>	PC22. pull about 2 metres of weft from the pirns in the right hand & hold around 4

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	<p>- 5 pirns at a time in the left hand</p> <p>PC23. press the pirn head in space in the battery disc one by one and press the tips of the pirns in the aligned path of the pirn holders. wind the pirn threads in the battery umbrella anti clock wise.</p>
<p><b>Other Work Practices</b></p>	<p>PC24. correct the fabric defects like wrong drawing, wrong denting , end out, double end etc. immediately and also ensure that the other fabric defects too are corrected at the earliest</p> <p>PC25. clean the machines &amp; other 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 &amp; opposite looms .</p> <p>PC26. Do not misuse compressed air use air for cleaning only in the areas where it is recommended</p> <p>PC27. unweave the fabric in case of any floats</p> <p>PC28. run the machine without starting mark or crack</p> <p>PC29. ensure that the loose threads are hanged in higher length ( not more than 4 mm) and trimmed after attending to the warp breaks.</p> <p>PC30. patrol the machines and attend to the breaks to minimise the stoppages</p> <p>PC31. tie the waist bag &amp; all the waste generated by the weavers are collected in the said waist bag, which can be ultimately disposed in the places/ bins provided</p> <p>PC32. ensure that the correct weft yarn is used</p> <p>PC33. ensure that the weft yarn is completely used , without any wastage of raw materials. for any quality issue or defective cones etc., the same has to be brought to the notice of the superiors.</p> <p>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 &amp; get it corrected</p> <p>PC35. ensure that all the stop motions, preventive mechanisms etc. are functioning properly</p> <p>PC36. ensure correct quality of thrums are there &amp; see that the same are properly tied</p> <p>PC37. check the knotted loom for knotting quality etc. double ends have to be removed. report to superiors for any deviation in the same &amp; for any other quality issue</p> <p>PC38. ensure that the looms are stopped for a minimum possible time due to whatever reason to achieve maximum outputs</p> <p>PC39. check the fabrics for the defects at least twice in a shift and sign on the cloth every time</p> <p>PC40. ensure that cloth rolls are doffed whenever/ wherever necessary</p> <p>PC41. give preference to safety . should not enter the area, where he/ she are not allowed. should not do a job in which training has not being given</p> <p>PC42. ensure that no raw material/ cloth/ spare/ tool / any other material is thrown under/ near the machines or in the other work areas.</p> <p>PC43. check for the reasons for frequent warp/ weft breaks &amp; take corrective action . In case of any problem report to the mechanics/ fitters/ superiors</p>

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<b>Knowledge and Understanding (K)</b>	
<b>C. Organizational Context</b> (Knowledge of the company/ organization and its processes)	<p>The individual on the job needs to know and understand:</p> <p>KA1. the organization's policies &amp; standard operating procedures (SOP) and its process</p> <p>KA2. should have an awareness &amp; knowledge of customers</p> <p>KA3. potential hazards associated with the machines and the safety precautions must be taken</p> <p>KA4. protocol to obtain more information on work related tasks</p> <p>KA5. contact person in case of queries on procedure or products and for revolving issues related to defective machines, tools, materials &amp; equipments</p> <p>KA6. details of the various job roles &amp; responsibilities</p> <p>KA7. documentation and reporting formats</p> <p>KA8. work targets &amp; review with superiors</p> <p>KA9. protocol and format for reporting work related risks/ problems</p> <p>KA10. method of obtaining /giving feed back with respect to performance</p> <p>KA11. importance of team work and harmonious working relationships</p> <p>KA12. process for offering /obtaining work related assistance</p> <p>KA13. responsibilities under health, safety and environmental legislation</p> <p>KA14. guidelines for storage &amp; disposal of waste materials</p>
<b>D. Technical/Domain Knowledge of product</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. the minimum quality requirements of the product with respect to permissible/non-permissible defects</p> <p>KB2. fabric quality particulars such as ends &amp; picks per inch, width, products weave etc.</p>
<b>About the Raw materials</b>	<p>KB3. yarns from natural fibers - cotton, silk, wool</p> <p>KB4. yarns from manmade fibers - polyester, nylon, viscose</p> <p>KB5. blended yarns - polyester cotton, polyester viscose</p>
<b>About different types of Looms</b>	<p>KB6. Process flow &amp; material flow in a weaving mill</p> <p>KB7. Standard procedures to operate automatic shuttle loom</p> <p>KB8. Functions of various controls of automatic shuttle loom</p> <p>KB9. shuttle less looms - rapier , projectile , air jet, water jet</p> <p>KB10. tappet loom/ cam loom/ crank loom , dobby loom, jacquard loom</p>
<b>About types of weave</b>	<p>KB11. plain weave, twill , drill, plain satin, stripe satin , dobby designs , jacquard designs</p>
<b>Causes for fabric defects: due to weaver, due to loom, due to other reasons</b>	<p>KB12. wrong drawing , wrong denting, end out , double end, broken pick, double pick, missing pick, hand stain , hole, wrong weft, bad selvedge,</p> <p>KB13. end out, let-off, take- up problem, temple mark, temple cut, emery hole/ emery cut/ emery mark, broken pick, missing pick, double pick, short pick, snarls, impression mark, oil stain, lashing in, weft catching, selvedge cut, loops, weft stitches, warp stitches, bumping mark, weft crack, cloth torn , bad shedding, warp floats, Weft Floats, Reed Mark, Bad Selvedge, Starting Mark, Thin &amp; Thick Place , Hair line crack,</p> <p>KB14. weaving faults - thin place, thick place, neps, kitties, contamination, color</p>

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	<p>flies, yarn variation, shade variation</p> <p>KB15. sizing faults - shade variation, size patches, sizing oil, bead formation,</p> <p>KB16. weaving faults - wrong weft, wrong pattern, less width, low epi, low ppi, wrong warp,</p>
<b>Inspection Standard</b>	<p>KB17. four point American system</p> <ul style="list-style-type: none"> <li>• below 3" - 1 point</li> <li>• between 3" to 6" - 2 points</li> <li>• between 6" to 9" - 3 points</li> <li>• above 9" - 4 points</li> </ul>
	<p>KB18. British System of grading Cuttable Faults, Warp Way Continuous Faults, Specification Deviations</p> <ul style="list-style-type: none"> <li>• A grade - no cuttable faults, no warp way continuous faults, no 3 major faults, 15 minor points</li> <li>• B grade - rejection. deviation from a grade</li> <li>• cuttable faults ; hole, let - off, take - up, selvedge cut, weft crack, cloth torn, wrong pattern, bad shedding, size patches , sizing oil, bead formation, wrong weft,</li> <li>• major faults : wrong drawing, wrong denting, end out, double end, temple mark, temple cut, emery hole, emery cut, emery mark, impression mark, guide tooth mark, under tuck in, tails, warp stitches , warp floats, reed mark, bad selvedge, yarn variation, shade variation,</li> <li>• cloth width - no minus is accepted &amp; no excess above 0.5" is accepted</li> <li>• ends per inch - plus or minus 2 is accepted</li> <li>• picks per inch - plus or minus 1</li> </ul>
	<p>KB19. American System</p> <ul style="list-style-type: none"> <li>• A Grade - No Cuttable Faults, No Warp Way Continuous Faults, No of grading Export Specification Deviation. Maximum 15 points for 100 Square meter Standard – Piece</li> <li>• B Grade - Rejection. Deviation from A Grade Lengths</li> <li>• between 40 meters to 79.75 meters - 20% to variation from buyer to buyer) above 80 meters - 80%</li> </ul>
<b>Safety Mechanism</b>	<p>KB20. should know the safety mechanisms of the machines &amp; ensure that the same are in order</p> <p>KB21. should know the functions of stop motions &amp; ensure that the same are in order</p> <p>KB22. should know the functions of various indication lamps &amp; ensure that the same are in order</p>
<b>Machine Operators</b>	<p>KB23. should know about the functional operations of the machines, where he/she is working</p>
<b>Skills</b>	

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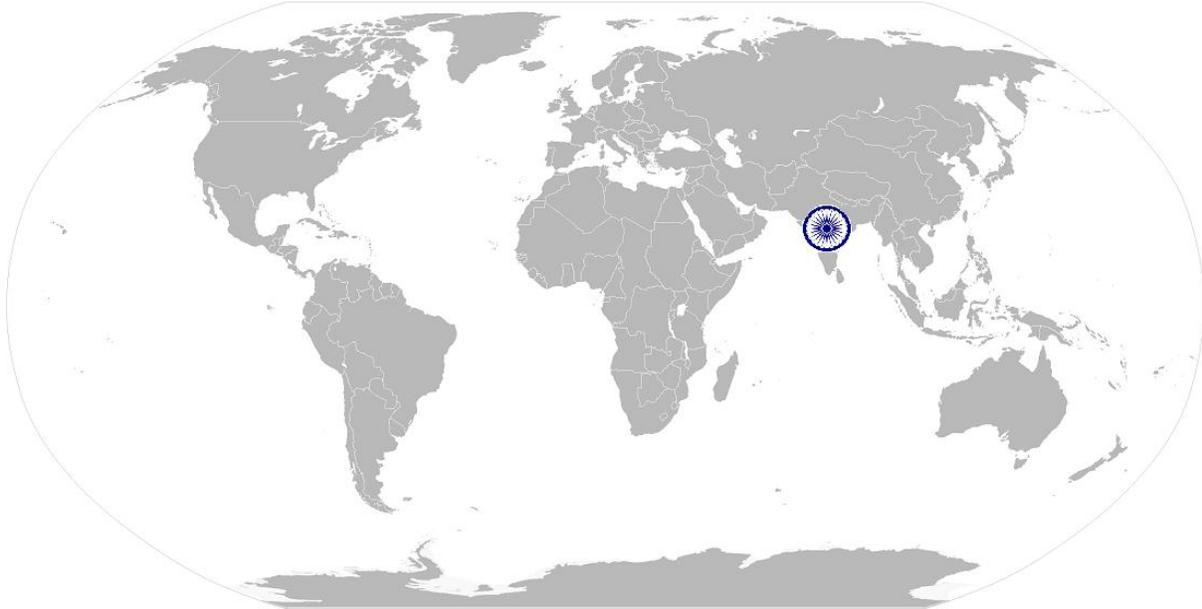
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	You need to know and understand how to: SA1. write clear and short sentences
	<b>Reading Skills</b>
	You need to know and understand how to: SA2. comprehend written instructions
<b>B. Professional Skills</b>	On the job the individual should be able to: SB1. read, write and communicate orally in local language SB2. plan and manage work routine based on instructions from supervisor SB3. should willingly participate in the various programs/ meetings that will be conducted by the superiors & put forth the suggestions in the interest of the company SB4. participate in the " quality circles" formed by the superiors SB5. should extend voluntary supports and adapt to the various procedures that are adopted by the company with respect to compliances for the different certifications like " ISO 9001", " ISO 14001", SA 8001",GOTS certification " fair trade " etc.
	<b>Weaver's Knot</b>
	On job the individual should be able to achieve the following skills : SB6. one should put a minimum of 15 knots/ minute
	<b>Battery Filling</b>
	SB7. should be able to fill around 24 pirns in a battery in a maximum period of 2 minutes
	<b>Attending to Warp/ Weft Break</b>
	SB8. one should attend battery filling with proper pick finding in 30 seconds SB9. one should attend a single warp end through dropper, heald & reed dent in 45 to 60 seconds depending on the automation of the machines/ type of weave etc.
	<b>Quality Evaluation</b>
	SB10. should be able to weave fabric free from Weaver oriented damages such as Wrong Drawing, Wrong Denting, End Out, Double End etc.
	<b>Problem Solving</b>
	Not Applicable
	<b>Decision Making</b>
	Not Applicable
	<b>Customer Centricity</b>
	Not Applicable
<b>Plan &amp; Organize</b>	
Not Applicable	
<b>Analytical Thinking</b>	
Not Applicable	

**TSC/N2202**

**Running automatic shuttle loom**

**NOS Version Control**

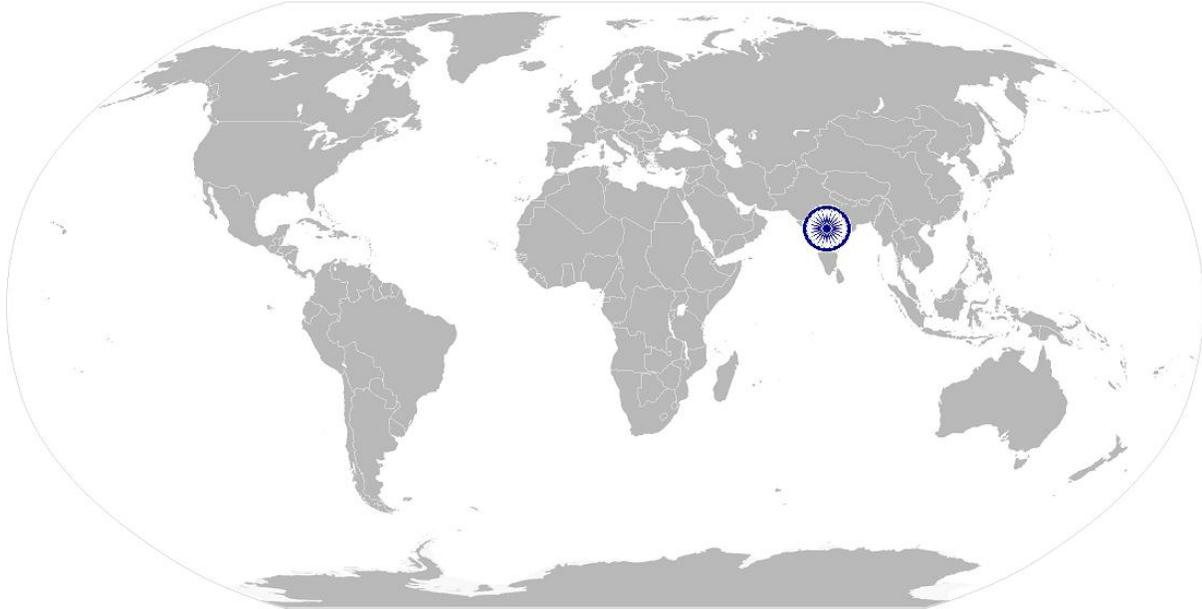
<b>NOS Code</b>	<b>TSC/ N2202</b>		
<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Textile</b>	<b>Drafted on</b>	<b>15/12/14</b>
<b>Industry Sub-sector</b>	<b>Weaving</b>	<b>Last reviewed on</b>	<b>21/01/15</b>
<b>Occupation</b>	<b>Weaving</b>	<b>Next review date</b>	<b>01/03/16</b>



TSC/ N9001

Maintain work area, tools and machine

# National Occupational Standard



## Overview

This unit is about maintaining work areas and activities to ensure tools and machines are maintained as per norms.

**TSC/ N9001**

**Maintain work area, tools and machine**

<b>Unit Code</b>	<b>TSC/ N9001</b>
<b>Unit Title (Task)</b>	<b>Maintaining work area, tools and machines</b>
<b>Description</b>	This unit provides performance criteria, knowledge & understanding and skills & abilities required to organize/ maintain work areas and activities to ensure tools and machines are maintained as per norms
<b>Scope</b>	This unit/task covers the following: <ul style="list-style-type: none"> <li>Maintain the work area, tools and machines</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Elements</b>	<b>Performance Criteria</b>
<b>Maintain the work area, tools and machines</b>	To be competent, you must be able to: <ul style="list-style-type: none"> <li>PC1. handle materials, machinery, equipment and tools with care and use them in the correct way</li> <li>PC2. use correct lifting and handling procedures</li> <li>PC3. use materials to minimize waste</li> <li>PC4. maintain a clean and hazard free working area</li> <li>PC5. maintain tools and equipment</li> <li>PC6. carry out running maintenance within agreed schedules</li> <li>PC7. carry out maintenance and/or cleaning within one's responsibility</li> <li>PC8. report unsafe equipment and other dangerous occurrences</li> <li>PC9. ensure that the correct machine guards are in place</li> <li>PC10. work in a comfortable position with the correct posture</li> <li>PC11. use cleaning equipment and methods appropriate for the work to be carried out</li> <li>PC12. dispose of waste safely in the designated location</li> <li>PC13. store cleaning equipment safely after use</li> <li>PC14. carry out cleaning according to schedules and limits of responsibility</li> </ul>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company/ organization and its processes)	You need to know and understand: <ul style="list-style-type: none"> <li>KA1. personal hygiene and duty of care</li> <li>KA2. safe working practices and organizational procedures</li> <li>KA3. limits of your own responsibility</li> <li>KA4. ways of resolving with problems within the work area</li> <li>KA5. the production process and the specific work activities that relate to the whole process</li> <li>KA6. the importance of effective communication with supervisors</li> <li>KA7. the lines of communication, authority and reporting procedures</li> <li>KA8. the organization's rules, codes and guidelines (including timekeeping)</li> <li>KA9. the company's quality standards</li> <li>KA10. the importance of complying with written instructions</li> <li>KA11. equipment operating procedures / supervisor's instructions</li> </ul>
<b>B. Technical Knowledge</b>	You need to know and understand: <ul style="list-style-type: none"> <li>KB1. work instructions and specifications and interpret them accurately</li> <li>KB2. relation between work role and the overall manufacturing process</li> </ul>

**TSC/ N9001**

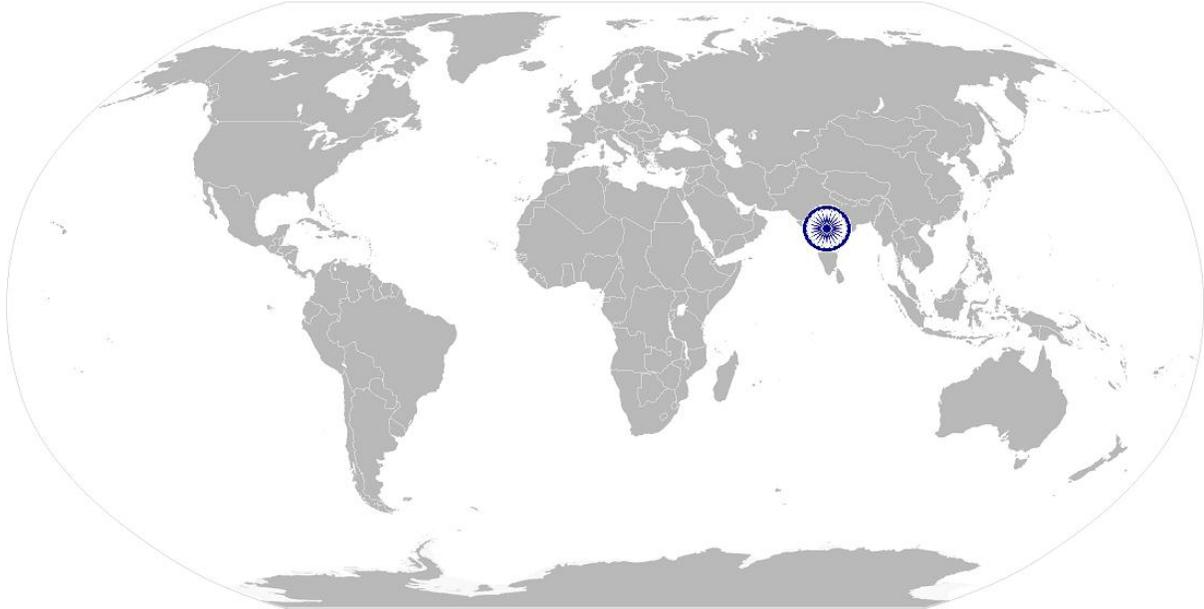
**Maintain work area, tools and machine**

	<p>KB3. hazards likely to be encountered when conducting routine maintenance          KB4. the importance of taking action when problems are identified          KB5. different ways of minimizing waste          KB6. the importance of running maintenance and regular cleaning          KB7. effects of contamination on products i.e. machine oil, dirt, foreign materials          KB8. common faults with equipment and the method to rectify          KB9. maintenance procedures          KB10. different types of cleaning equipment and substances and their use          KB11. safe working practices for cleaning and the method of carrying them out</p>
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<p><b>Writing Skills</b>          You need to know and understand how to:          SA1. write clear and short sentences</p> <p><b>Reading Skills</b>          You need to know and understand how to:          SA2. comprehend written instructions          SA3. read any application sent by other colleagues</p> <p><b>Oral Communication (Listening and Speaking skills)</b>          You need to know and understand how to:          SA4. Communicate effectively in local language          SA5. communicate with supervisor appropriately          SA6. talk to others to convey information effectively</p>
<b>B. Professional Skills</b>	<p><b>Problem Solving</b>          You need to know and understand how to:          SB1. identify the real reason of problem faced          SB2. apply problem-solving approaches in different situations          SB3. refer anomalies to the supervisor          SB4. seek clarification on problems from others          SB5. apply good attention to detail          SB6. check your work is complete and free from errors          SB7. make sure every kind of communication is error free          SB8. communicate effectively          SB9. apply leadership skills wherever required          SB10. take initiative at the right place          SB11. understand the requirement to be creative</p> <p><b>Decision Making</b>          Not Applicable</p> <p><b>Customer Centricity</b>          Not Applicable</p> <p><b>Plan &amp; Organize</b>          Not Applicable</p> <p><b>Analytical Thinking</b>          Not Applicable</p>

**TSC/ N9001**

**Maintain work area, tools and machine**

	<b>Critical Thinking</b>
	Not Applicable

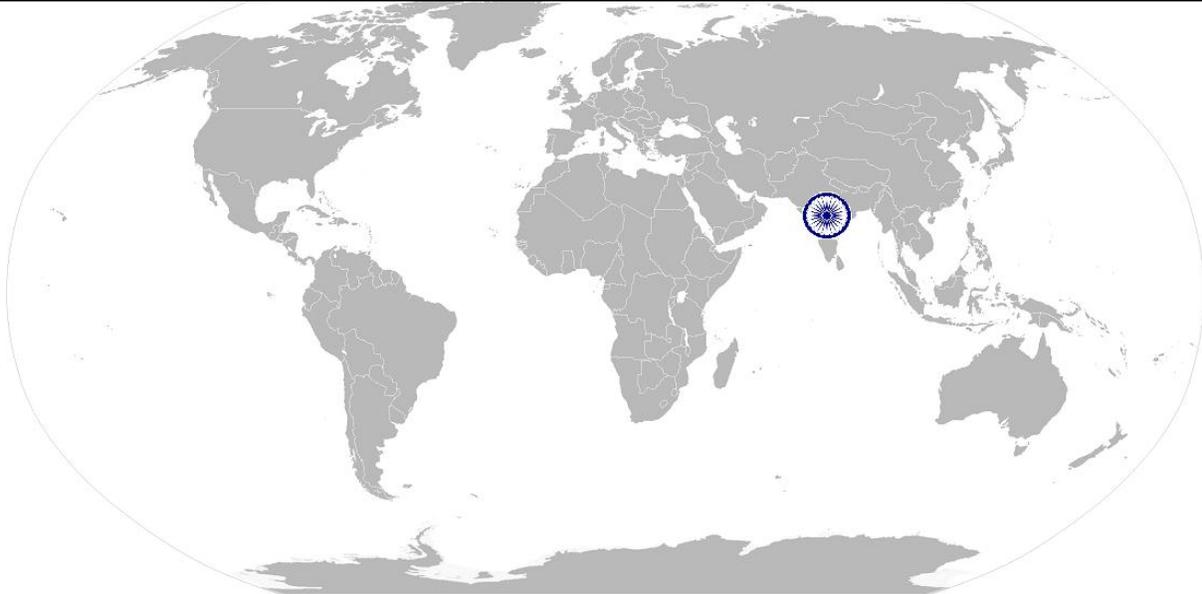


**TSC/ N9001**

**Maintain work area, tools and machine**

**NOS Version Control**

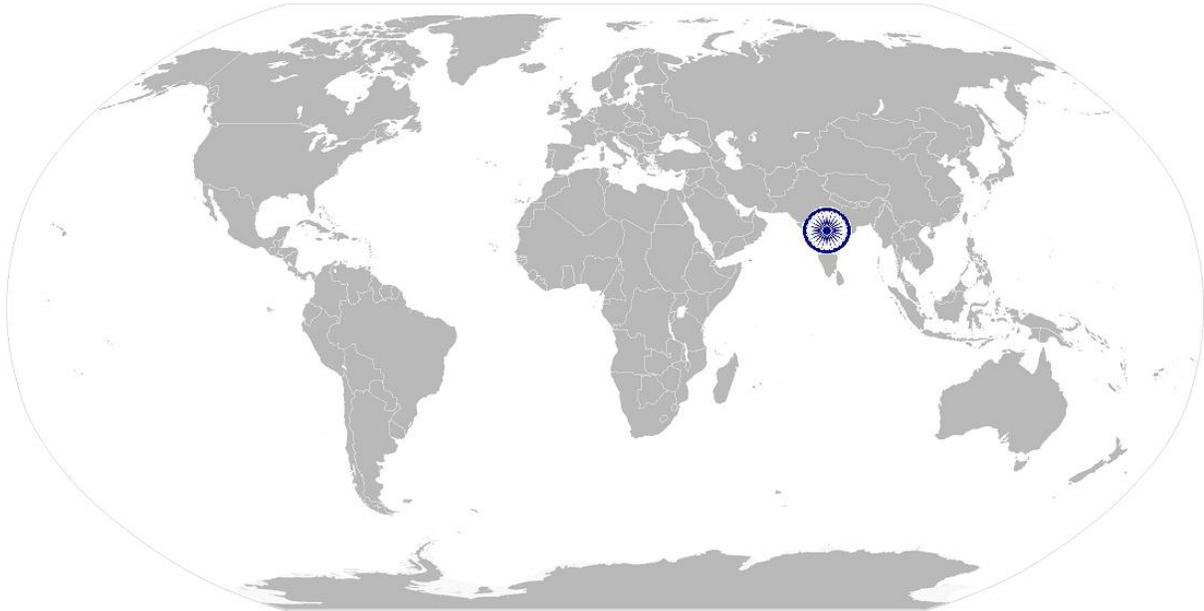
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<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Textile</b>	<b>Drafted on</b>	<b>15/12/14</b>
<b>Industry Sub-sector</b>	<b>Weaving</b>	<b>Last reviewed on</b>	<b>21/01/15</b>
<b>Occupation</b>	<b>Weaving</b>	<b>Next review date</b>	<b>01/03/16</b>



TSC/ N9002

Working in a team

# National Occupational Standard



## Overview

This unit is about working as part of a team in the textile industry.

**TSC/ N9002**

**Working in a team**

<b>Unit Code</b>	<b>TSC/ N9002</b>
<b>Unit Title (Task)</b>	<b>Working in a team</b>
<b>Description</b>	This unit is about working as a team member in the textile industry
<b>Scope</b>	<p><b>This unit/task covers the following:</b></p> <ul style="list-style-type: none"> <li>• commitment and trust</li> <li>• communication</li> <li>• adaptability</li> <li>• creative freedom</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Elements</b>	<b>Performance Criteria</b>
<b>Commitment and trust</b>	<p>To be competent, you must be able to:</p> <p>PC1. be accountable to the own role in whole process</p> <p>PC2. perform all roles with full responsibility</p> <p>PC3. be effective and efficient at workplace</p>
<b>Communication</b>	<p>PC4. properly communicate about company policies</p> <p>PC5. report all problems faced during the process</p> <p>PC6. talk politely with other team members and colleagues</p> <p>PC7. submit daily report of own performance</p>
<b>Adaptability</b>	<p>PC8. adjust in different work situations</p> <p>PC9. give due importance to others' point of view</p> <p>PC10. avoid conflicting situations</p>
<b>Creative freedom</b>	<p>PC11. develop new ideas for work procedures</p> <p>PC12. improve upon the existing techniques to increase process efficiency</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b>	<p>You need to know and understand:</p> <p>KA1. Standard Operating Procedures (SOP) and regulations in a weaving / textile mill</p> <p>KA2. procedure followed to get the final output in weaving / textile mill</p> <p>KA3. safe working practices to be adopted in weaving / textile mill</p> <p>KA4. reporting to the supervisor or higher authority about any grievances faced</p>
<b>B. Technical Knowledge</b>	<p>KB1. the importance of the previous and next step of the process</p> <p>KB2. process flow in a weaving / textile mill and the concerned workers</p> <p>KB3. material flow in a weaving / textile mill and the required person</p> <p>KB4. functions of different parts of the machine</p> <p>KB5. various tools and equipments used in weaving / textile mill</p> <p>KB6. guidelines for operating the machine</p> <p>KB7. safety procedures to be followed in the machine</p>
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	<p>You need to know and understand how to:</p> <p>SA1. write clear and short sentences</p> <p>SA2. write daily work report</p> <p>SA3. write grievance complaint application</p>

**TSC/ N9002**

**Working in a team**

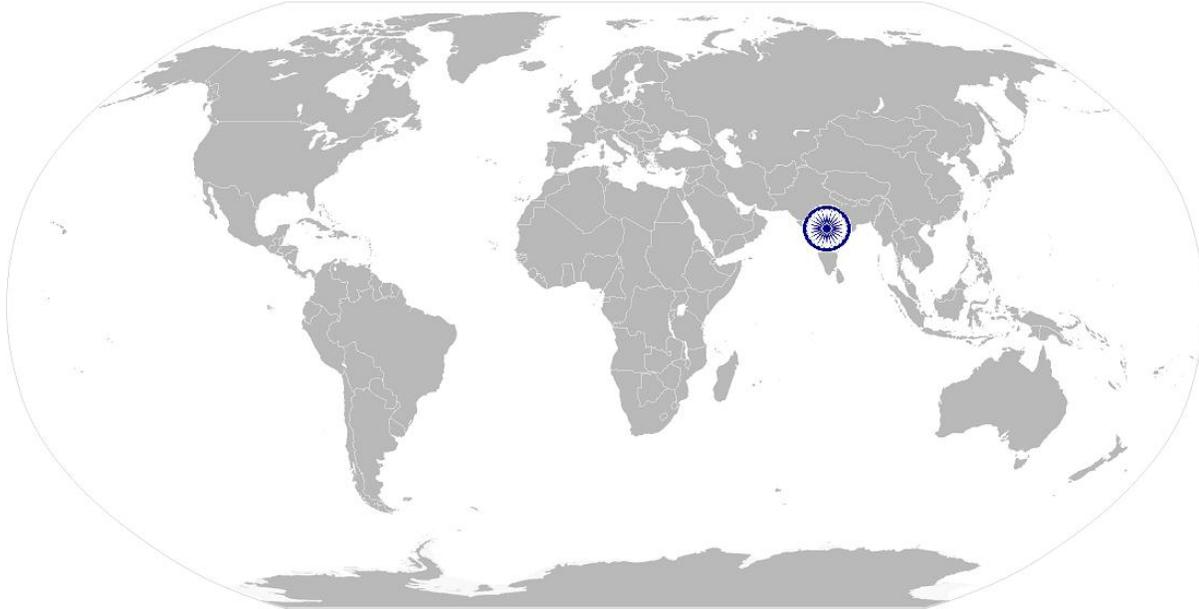
	<b>Reading Skills</b>
	SA4. comprehend written instructions SA5. read any application sent by other colleagues
	<b>Oral Communication (Listening and Speaking skills)</b>
	SA6. communicate with supervisor appropriately SA7. talk to co-workers to convey information effectively
	<b>B. Professional Skills</b>
<b>Problem Solving</b>	
You need to know and understand how to:	
SB1. identify the real reason of problem faced	
SB2. be able to find the most effective solution to the problems faced	
SB3. apply good attention to detail	
SB4. ensure every kind of communication is error free	
SC1. communicate effectively	
SC2. apply leadership skills wherever required	
SC3. take initiative at the right place	
SC4. understand the requirement to be creative	
<b>Decision Making</b>	
Not Applicable	
<b>Customer Centricity</b>	
Not Applicable	
<b>Plan &amp; Organize</b>	
Not Applicable	
<b>Analytical Thinking</b>	
Not Applicable	
<b>Critical Thinking</b>	
Not Applicable	

**TSC/ N9002**

**Working in a team**

**NOS Version Control**

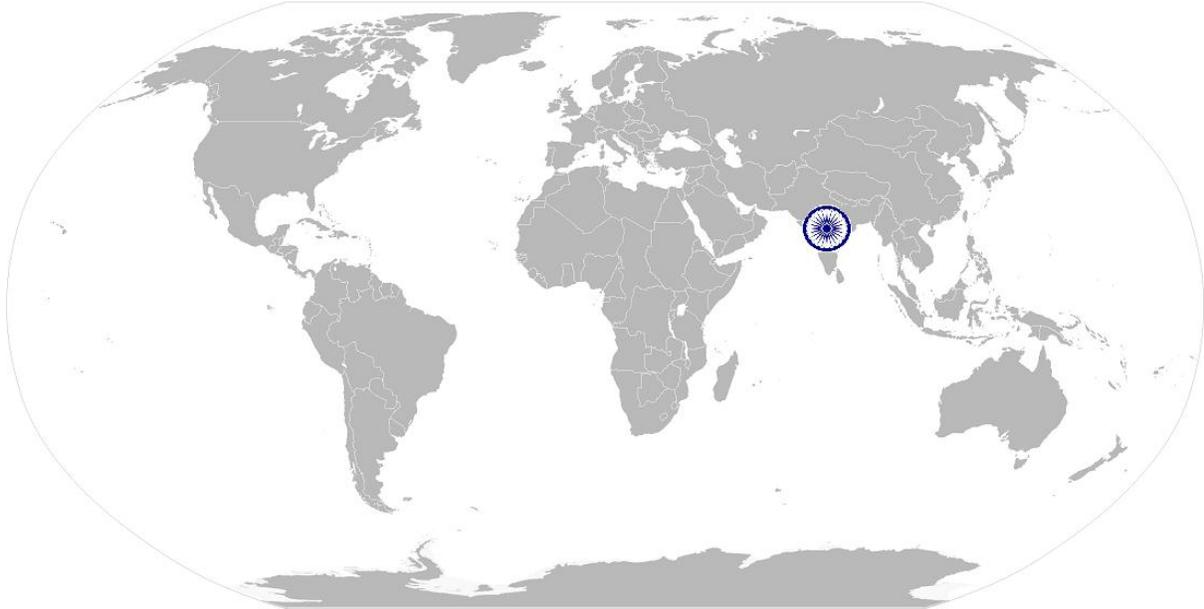
<b>NOS Code</b>	<b>TSC/ N9002</b>		
<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Textile</b>	<b>Drafted on</b>	<b>15/12/14</b>
<b>Industry Sub-sector</b>	<b>Weaving</b>	<b>Last reviewed on</b>	<b>21/01/15</b>
<b>Occupation</b>	<b>Weaving</b>	<b>Next review date</b>	<b>01/03/16</b>



TSC/ N9003

Maintain health, safety and security at work place

# National Occupational Standard



## Overview

This unit is about maintaining health, safety, and security standards at workplace.

**TSC/ N9003**

**Maintain health, safety and security at work place**

<b>Unit Code</b>	<b>TSC/ N9003</b>
<b>Unit Title (Task)</b>	<b>Maintain health, safety and security at work place</b>
<b>Description</b>	This unit provides performance criteria, knowledge & understanding and skills, abilities required to comply with health, safety and security requirements at the workplace and covers procedures to prevent, control and minimize risk to self and others.
<b>Scope</b>	<p><b>This unit/task covers the following:</b></p> <ul style="list-style-type: none"> <li>• Comply with health, safety and security requirements at work</li> <li>• Recognizing the hazards</li> <li>• Planning the safety techniques</li> <li>• Implementing the programs</li> </ul>
<b>Performance Criteria</b>	
<b>Elements</b>	<b>Performance Criteria</b>
<b>Comply with health, Safety and security requirements at work</b>	<p>To be competent, operator must be able to:</p> <p>PC1. comply with health and safety related instructions applicable to the workplace</p> <p>PC2. use and maintain personal protective equipment such as “ear plug”, “ nose mask “, “ head cap” etc., as per protocol</p> <p>PC3. carry out own activities in line with approved guidelines and procedures</p> <p>PC4. maintain a healthy lifestyle and guard against dependency on intoxicants</p> <p>PC5. follow environment management system related procedures</p> <p>PC6. identify and correct (if possible) malfunctions in machinery and equipment</p> <p>PC7. report any service malfunctions that cannot be rectified</p> <p>PC8. store materials and equipment in line with organisational requirements</p> <p>PC9. safely handle and remove waste</p> <p>PC10. minimize health and safety risks to self and others due to own actions</p> <p>PC11. seek clarifications, from supervisors or other authorized personnel in case of perceived risks</p> <p>PC12. monitor the workplace and work processes for potential risks and threat</p> <p>PC13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned</p> <p>PC14. report hazards and potential risks/ threats to supervisors or other authorized personnel</p> <p>PC15. participate in mock drills/ evacuation procedures organized at the workplace</p> <p>PC16. undertake first aid, fire-fighting and emergency response training, if asked to do so</p> <p>PC17. take action based on instructions in the event of fire, emergencies or accidents</p> <p>PC18. follow organisation procedures for shutdown and evacuation when required</p>
<b>Recognizing the hazards</b>	<p>PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry</p> <p>PC20. recognise other possible security issues existing in the workplace</p>
<b>Planning the safety</b>	PC21. recognise different measures to curb the hazards

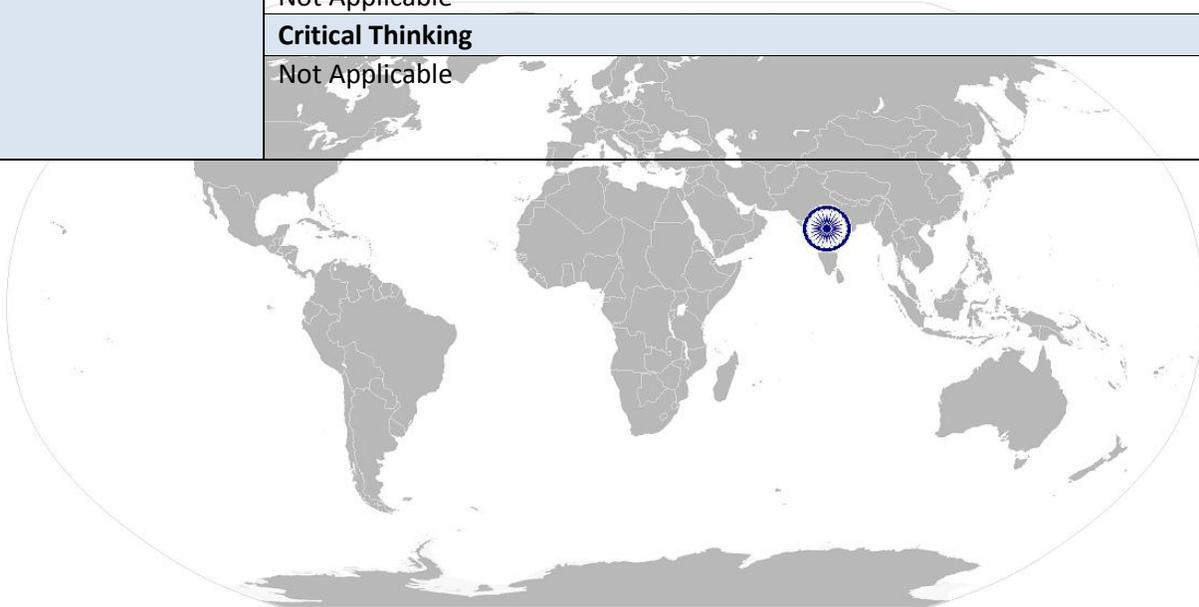
**TSC/ N9003 Maintain health, safety and security at work place**

<b>techniques</b>	
<b>Implementing the programs</b>	PC22. communicate the safety plan to everyone PC23. attach disciplinary rules with the implementation
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company/ organization and its processes)	You need to know and understand: KA1. Standard Operating Procedures (SOP) and regulations in a weaving / textile mill KA2. safe working practices to be adopted in weaving / textile mill KA3. quality systems and other processes practiced in the weaving / textile mill KA4. health and safety related practices applicable at the workplace KA5. potential hazards, risks and threats based on nature of operations KA6. organizational procedures for safe handling of equipment and machine operations KA7. potential risks due to own actions and methods to minimize these KA8. environmental management system related procedures at the workplace KA9. layout of the plant and details of emergency exits, escape routes, emergency equipment and assembly points KA10. potential accidents and emergencies and response to these scenarios KA11. reporting protocol and documentation required KA12. details of personnel trained in first aid, fire-fighting and emergency response KA13. actions to take in the event of a mock drills/ evacuation procedures or actual accident, emergency or fire
<b>B. Technical Knowledge</b>	You need to know and understand: KB1. occupational health and safety risks and methods KB2. personal protective equipment and method of use KB3. identification, handling and storage of hazardous substances KB4. proper disposal system for waste and by-products KB5. signage related to health and safety and their meaning KB6. importance of sound health, hygiene and good habits KB7. ill-effects of alcohol, tobacco and drugs
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	You need to know and understand how to: SA1. write clear and short sentences
	<b>Reading Skills</b>
	SA2. comprehend written instructions
	<b>Oral Communication (Listening and Speaking skills)</b>
SA1. listen to others attentively SA2. respond to emergencies, accidents or fire at the workplace SA3. evacuate the premises and help others in need while doing so SA4. the value of physical fitness, personal hygiene and good habits SA5. talk with others politely	
<b>B. Professional Skills</b>	<b>Decision Making</b>
	SB1. identify correct safety measure for particular hazard SB2. make required safety plans as and when required

**TSC/ N9003**

**Maintain health, safety and security at work place**

	SB3. raise alarm in case of emergency
	<b>Analytical Thinking</b>
	SB4. know the use of correct safety measure whenever required
	SB5. be attentive to details
	SB6. be careful to avoid occurrence of hazards
	SB7. maintenance of neatness at work place
	SB8. procedure for reporting unwanted behavior
	<b>Problem Solving</b>
	Not Applicable
	<b>Customer Centricity</b>
	Not Applicable
	<b>Plan &amp; Organize</b>
Not Applicable	
<b>Critical Thinking</b>	
Not Applicable	

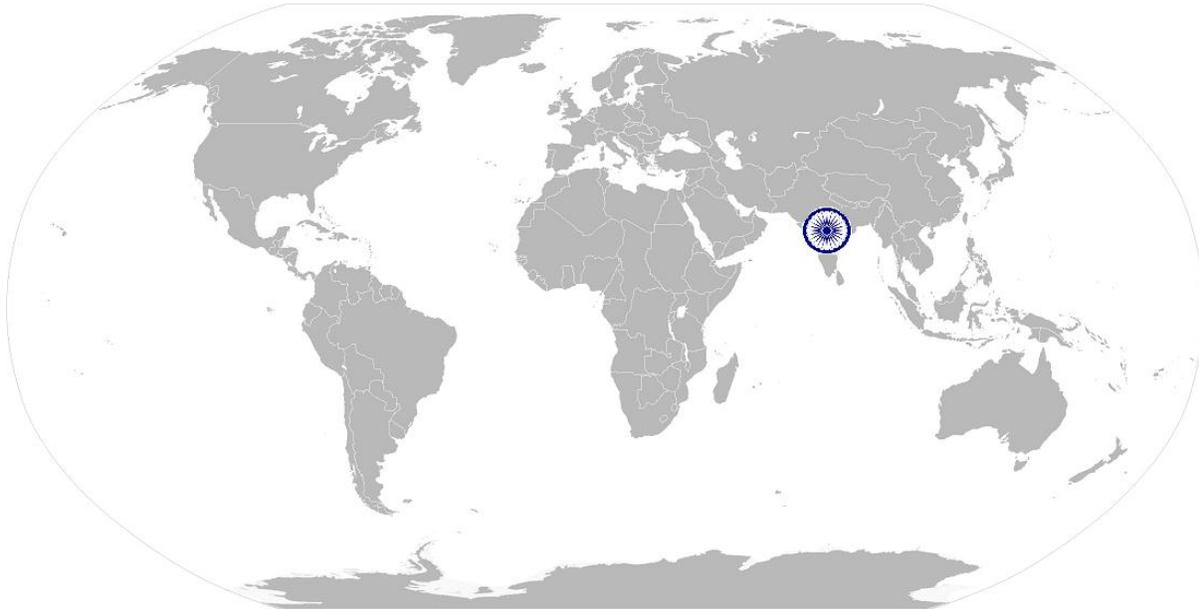


**TSC/ N9003**

**Maintain health, safety and security at work place**

**NOS Version Control**

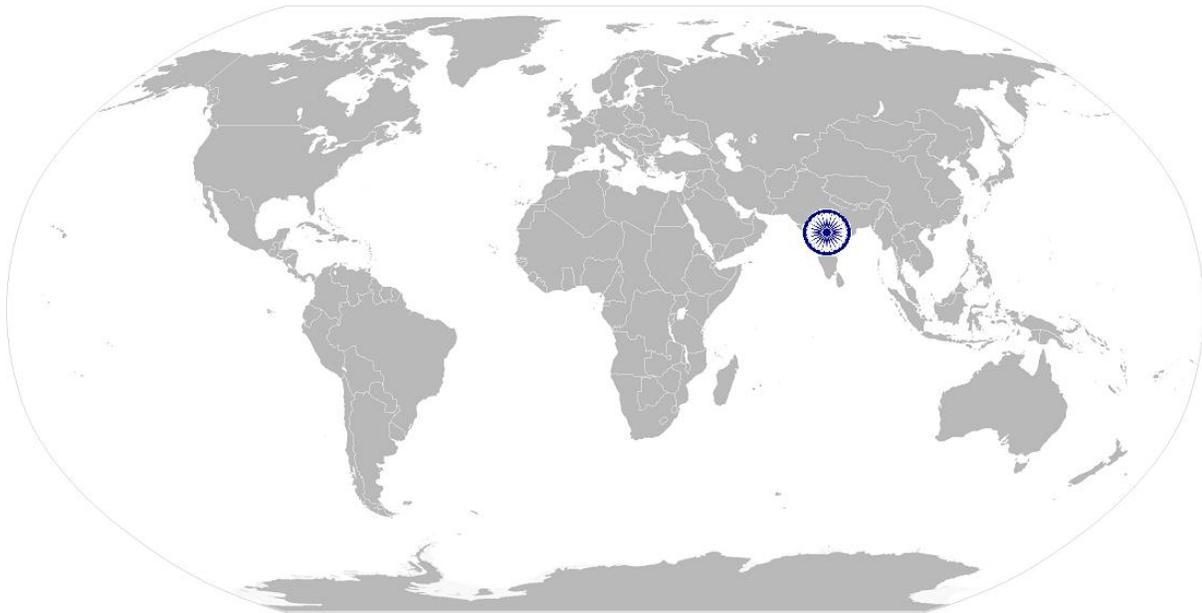
<b>NOS Code</b>	<b>TSC/ N9003</b>		
<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Textile</b>	<b>Drafted on</b>	<b>15/12/14</b>
<b>Industry Sub-sector</b>	<b>Weaving</b>	<b>Last reviewed on</b>	<b>21/01/15</b>
<b>Occupation</b>	<b>Weaving</b>	<b>Next review date</b>	<b>01/03/16</b>



TSC/ N9004

Comply with industry and organizational requirements

# National Occupational Standard



## Overview

This unit is about knowing, understanding, and complying with the requirements of the organization and the textile industry.

**TSC/ N9004**
**Comply with industry and organizational requirements**

National Occupational Standard	<b>Unit Code</b>	TSC/ N9004
	<b>Unit Title (Task)</b>	Comply with industry and organizational requirements
	<b>Description</b>	This unit is about knowing, understanding, and complying with the requirements of the organization and the textile industry
	<b>Scope</b>	<b>This unit/task covers the following:</b> <ul style="list-style-type: none"> <li>• self development</li> <li>• team work</li> <li>• organizational standards</li> <li>• industry standards</li> </ul>
	<b>Performance Criteria (PC) w.r.t. the Scope</b>	
	<b>Elements</b>	<b>Performance Criteria</b>
	<b>Self- development</b>	To be competent, you must be able to: PC1. perform own duties effectively PC2. take responsibility for own actions PC3. be accountable towards the job role and assigned duties PC4. take initiative and innovate the existing methods PC5. focus on self-learning and improvement
	<b>Team work</b>	PC6. co-ordinate with all the team members and colleagues PC7. communicate politely PC8. avoid conflicts and miscommunication
	<b>Organizational standards</b>	PC9. know the organisational standards PC10. implement them in your performance PC11. motivate others to follow them
	<b>Industry standards</b>	PC12. know the industry standards PC13. align them with organisation standards
<b>Knowledge and Understanding (K)</b>		
<b>A. Organizational Context</b> (Knowledge of the company/ organization and its processes)	You need to know and understand: KA1. Standard Operating Procedures (SOP) and regulations in a weaving mill KA2. reporting to the supervisor or higher authority KA3. knowledge of organization standards KA4. knowledge of industry standards	
<b>B. Technical Knowledge</b>	You need to know and understand: KB1. process flow and material flow in a weaving mill KB2. importance of complying with the standards KB3. guidelines for cleaning the various parts of machine	
<b>Skills (S)</b>		
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>	
	You need to know and understand how to: SA1. write clear and short sentences	

**TSC/ N9004**

**Comply with industry and organizational requirements**

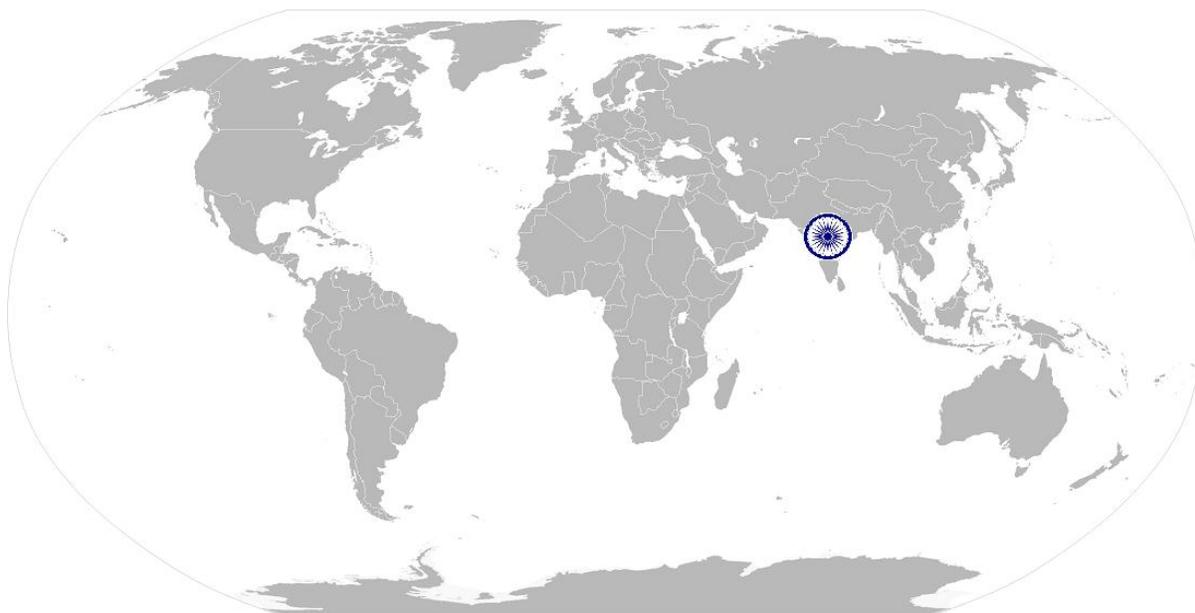
	<b>Reading Skills</b>
	You need to know and understand how to: SA2. comprehend written instructions
	<b>Oral Communication (Listening and Speaking skills)</b>
	SA3. talk effectively with others SA4. put forward your point SA5. listen to others
	<b>B. Professional Skills</b>
	<b>Problem Solving</b>
	Not Applicable
	<b>Customer Centricity</b>
	Not Applicable
	<b>Plan &amp; Organize</b>
	Not Applicable
	<b>Analytical Thinking</b>
	Not Applicable
	<b>Disicion Making</b>
	Not Applicable
	<b>Critical Thinking</b>
	SB1. Organizational requirements SB2. your responsibilities at the workplace SB3. procedure to comply with the industry standards

**TSC/ N9004**

**Comply with industry and organizational requirements**

**NOS Version Control**

<b>NOS Code</b>	<b>TSC/N 9004</b>		
<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Textile</b>	<b>Drafted on</b>	<b>15/12/14</b>
<b>Industry Sub-sector</b>	<b>Weaving</b>	<b>Last reviewed on</b>	<b>21/01/15</b>
<b>Occupation</b>	<b>Weaving</b>	<b>Next review date</b>	<b>01/03/16</b>



### Assessment Criteria

**Job Role: Automatic Shuttle Loom Operator**  
**Qualification Pack: Automatic Shuttle Loom Operator (TSC/Q 2201)**  
**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 & 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
<b>1. TSC/ N2201 (Taking charge of shift and handing over shift to Automatic Shuttle Loom Operator)</b>	PC1. Come at least 10 - 15 minutes earlier to the work spot	<b>160</b>	12	0	12	0
	PC2. bring the necessary operational tools like " weavers' hook", " knife" etc.		12	6	6	0
	PC3. . Meet the previous shift warper , discuss with him/ her regarding the issues faced by them with respect to the quality or production or spare or safety or any other specific instruction etc.		12	3	6	3
	PC4. check for the availability of the weft & the condition of the same		12	3	6	3
	PC5. check the condition of the running beams , for cross ends, ends pulling out particularly at the selvedge		12	4	8	0
	PC6. check the availability of the " thrums" , quality & condition of the same		10	2	8	0
	PC7. check the cloth for the running damages like end out, wrong drawing, wring denting, double end, reed mark, temple cut/ temple mark, let- off mark, take up fault, oil		10	4	6	0

### Assessment Criteria

	stain, hole, cloth torn, weft catching, weft lashing in etc.					
	PC8. check for the size of the cloth rolls & to see whether any indication is there in the cloth rolls	12	2	8	2	
	PC9. check the cleanliness of the machines & other work areas	10	3	4	3	
	PC10. Check whether any spare/raw material/ tool / fabric/ any other material are thrown under the machines or in the other work areas.	10	2	6	2	
	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.	12	2	8	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	12	3	8	1	
	PC13. Report to his/ her shift superiors as well as that of the incoming shift, in case his/ her counterpart doesn't report for the incoming shift. in that case, the shift has to be properly handed over to the incoming shift superior & get clearance from him/ her, before leaving the work spot	12	3	8	1	
	PC14. report to his/ her shift superior about the quality / production / safety issues/ any other issue faced in his/ her shift and should leave the department only after getting concurrence for the same from his/ her superiors	12	3	6	3	
		<b>160</b>	<b>40</b>	<b>100</b>	<b>20</b>	
	<b>Total</b>	<b>Weightage %</b>		<b>76%</b>	<b>19%</b>	<b>5%</b>
<b>2. TSC/N2202 (Running automatic)</b>	PC1. Make tiny & firm warper's knots	<b>340</b>	8	2	6	0
	PC2. find out broken warp ends		8	0	8	0

### Assessment Criteria

shuttle loom)	PC3. Find out the location of the broken end, by bringing the hands under the dropper bars, with mechanical droppers.	8	0	8	0
	PC4. detect the location using the indication lamp & by bringing the hands over the droppers, with electrical warp stop motion	8	3	5	0
	PC5. mend the broken warp end in the sized beams with the thrums of the same count of the sized beams, using " weavers ' knots"	8	3	5	0
	PC6. draw the mended warp yarn through the healds properly ,as per the drawing order prescribed	8	2	4	2
	PC7. draw the mended warp yarn through the reed dent, properly, as per the denting order prescribed	10	5	5	0
	PC8. see that the sley has been brought to the back centre	8	3	3	2
	PC9. see that the shuttle is inserted fully in the shuttle box	10	3	4	3
	PC10. run the loom by pulling the starting handle with full torque	8	2	4	2
	PC11. see that the sley has to be brought the back centre	8	0	6	2
	PC12. take out shuttle from shuttle box	8	2	4	2
	PC13. do pick finding	8	0	6	2
	PC14. find out the last pick inserted in the produced cloth	8	2	6	0
	PC15. tie sley to the back centre, after doing the pick finding	8	2	6	0
	PC16. insert shuttle into the correct box as per the pick finding done	8	0	8	0
	PC17. see that the shuttle is inserted fully in the shuttle box	8	0	8	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	8	4	4	0
	PC19. bring back sley to centre	8	4	4	0
	PC20. see that the shuttle is inserted fully in the shuttle box	8	2	4	2
	PC21. run the loom by pulling the starting handle with full to	8	2	4	2

### Assessment Criteria

PC22. pull about 2 meters of weft in the pirns in the right hand & hold around 4 - 5 pirns at a time in the left hand	8	2	4	2
PC23. Press the pirn head of the pirns in space in the battery disc one by one and press the tips of the pirn in the aligned path of the pirn holders, then wind the pirn threads in the battery umbrella, anti-clock wise.	8	2	4	2
PC24. Correct the fabric defects like wrong drawing, wrong denting, end out, double end etc., immediately and also ensure that the other fabric defects too are corrected at the earliest, before continuing further production.	8	2	4	2
PC25. clean the machines & work area, so as to ensure good working atmosphere, without damaging the fabrics in the looms where the cleaning work is carried out as well as in the adjacent & opposite looms . Should not misuse "air". can use air for cleaning, only in the areas, where it is allowed	8	2	4	2
PC26. " unweave " the same in case of any floats	8	2	4	2
PC27. run the machine without " starting mark or crack"	8	2	4	2
PC28. Ensure that the loose threads are hanged in higher length (not more than 4 mm). Accordingly, and trimmed, after attending to the warp breaks.	8	2	4	2
PC29. patrol the machines and do mending so as to minimize the stoppages	8	4	4	0
PC30. Tie the "waist bag" & all the waste generated by the weavers are collected in the said waist bag, which can be ultimately disposed in the places/ bins provided, at the end of the shift.	8	5	3	0
PC31. ensure that the correct weft yarn, as per the " loom card" only is used	8	35	3	0

### Assessment Criteria

PC32. See that the weft yarn is completely used, without giving room for additional wastage of raw materials. For any quality issue or defective cone etc., the same has to be brought to the notice of the superiors.	8	6	2	0
PC33. Avoid pulling out warp ends unnecessarily. if end is getting cut often in the selvedge , the same has to be brought to the notice of the mechanics/ fitters/ superiors & get it corrected	8	4	4	0
PC34. ensure that all the stop motions, preventive mechanisms etc., function properly	8	5	3	0
PC35. ensure correct quality of thrums are there & see that the same are properly tied	8	5	3	0
PC36. check the knotted loom for knotting quality etc. double ends have to be removed should report to superiors for any deviation in the same & for any other quality issue	8	6	1	1
PC37. ensure that his/ her looms are stopped for a minimum possible down time due to whatever reason & see that he/ she gets maximum outputs in his/ her shift	8	6	1	1
PC38. check the fabrics for the defects at least twice in a shift and sign on the cloth in both times	8	4	4	0
PC39. ensure that cloth rolls are doffed whenever/ wherever necessary	8	4	4	0
PC40. Give preference to safety. Should not enter the area, where he/ she are not allowed. should not do a job in which training has not being given	8	2	4	2
PC41. Ensure that no raw material/ cloth/ spare/ tool / any other material is thrown under/ near the machines or in the other work areas.	8	3	3	2
PC42. Check for the reasons for the frequent warp/ weft breaks. The reasons that could be corrected by him/ herself should be corrected. otherwise, the same has to be	8	3	3	2

### Assessment Criteria

	reported to the mechanics/ fitters/ superiors					
			340	117	182	41
	<b>Total</b>	<b>Weightage %</b>	<b>34%</b>	<b>54%</b>	<b>12%</b>	
<b>3. TSC/ N9001 (Maintain work area, tools and machines)</b>						
	PC1. Handle materials, machinery, equipment and tools safely and correctly	<b>50</b>	4	2	1	1
	PC2. Use correct lifting and handling procedures		4	2	1	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	1	2	1
	PC6. Carry out running maintenance within agreed schedules		4	2	1	1
	PC7. Carry out maintenance and/or cleaning within one's responsibility		4	2	1	1
	PC8. Report unsafe equipment and other dangerous occurrences		4	2	1	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	2	1	1
	PC13. Store cleaning equipment safely after use		3	1	1	1
	PC14. Carry out cleaning according to schedules and limits of responsibility		4	2	1	1
		<b>50</b>	<b>21</b>	<b>15</b>	<b>14</b>	
	<b>Total</b>	<b>Weightage %</b>	<b>42%</b>	<b>30%</b>	<b>28%</b>	
<b>4.TSC/ N9002 (Working in a team)</b>						
	PC1. be accountable to the own role in whole process	<b>50</b>	5	1	3	1
	PC2. perform all roles with full responsibility		4	1	2	1

### Assessment Criteria

	PC3. be effective and efficient at workplace		4	2	1	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	1	2
	PC10. avoid conflicting situations		4	2	1	1
	PC11. develop new ideas for work procedures		4	2	1	1
	PC12. improve upon the existing techniques to increase process efficiency		4	2	1	1
			<b>50</b>	<b>17</b>	<b>17</b>	<b>16</b>
	<b>Total</b>	<b>Weightage %</b>		<b>34%</b>	<b>34%</b>	<b>32%</b>
<b>5. TSC/ N9003 (Maintain health, safety and security at workplace)</b>	PC1. Comply with health and safety related instructions applicable to the workplace	<b>100</b>	5	2	2	1
	PC2. Use and maintain personal protective equipment as per protocol		5	2	2	1
	PC3. Carry out own activities in line with approved guidelines and procedures		4	1	2	1
	PC4. Maintain a healthy lifestyle and guard against dependency on intoxicants		4	1	2	1
	PC5. Follow environment management system related procedures		4	1	2	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	1	2	1
	PC8. Store materials and equipment in line with manufacturer's and organizational requirements		4	2	1	1

### Assessment Criteria

	PC9. Safely handle and move waste and debris		4	2	1	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	0	2	2
	PC12. Monitor the workplace and work processes for potential risks and threats		5	2	2	1
	PC13. Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned		5	2	2	1
	PC14. Report hazards and potential risks/ threats to supervisors or other authorized personnel		4	2	1	1
	PC15. Participate in mock drills/ evacuation procedures organized at the workplace		4	2	2	0
	PC16. Undertake first aid, fire-fighting and emergency response training, if asked to do so		5	2	2	1
	PC17. Take action based on instructions in the event of fire, emergencies or accidents		5	2	2	1
	PC18. Follow organization procedures for shutdown and evacuation when required		4	1	2	1
	PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry		4	1	2	1
	PC20. recognize other possible security issues existing in the workplace		4	1	2	1
	PC21. recognize different measures to curb the hazards		4	1	2	1
	PC22. communicate the safety plan to everyone		4	1	2	1
	PC23. attach disciplinary rules with the implementation		4	1	2	1
			<b>100</b>	<b>34</b>	<b>43</b>	<b>23</b>
	<b>Total</b>	<b>Weightage %</b>		<b>43%</b>	<b>34%</b>	<b>43%</b>
<b>6. TSC/ N9004</b>	PC1. perform own duties effectively	<b>50</b>	4	2	1	1

### Assessment Criteria

<b>(Comply with industry and organizational requirement)</b>	PC2. take responsibility for own actions	4	2	1	1
	PC3. be accountable towards the job role and assigned duties	4	1	2	1
	PC4. take initiative and innovate the existing methods	3	1	1	1
	PC5. focus on self-learning and improvement	4	2	1	1
	PC6. co-ordinate with all the team members and colleagues	4	2	1	1
	PC7. communicate politely	4	1	1	2
	PC8. avoid conflicts and miscommunication	4	2	1	1
	PC9. know the organizational standards	4	1	2	1
	PC10. implement them in your performance	4	2	1	1
	PC11. motivate others to follow them	3	1	1	1
	PC12. know the industry standards	4	1	3	0
	PC13. align them with organization standards	4	1	2	1
		<b>50</b>	<b>19</b>	<b>18</b>	<b>13</b>
	<b>Total</b>	<b>Weightage %</b>		<b>36%</b>	<b>38%</b>
<b>Total</b>		<b>750</b>	<b>248</b>	<b>375</b>	<b>127</b>
<b>Grand Total</b>		<b>750</b>			