

## 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 – Shuttle-Less Loom Weaver - Projectile

**SECTOR: TEXTILE**

**SUB-SECTOR: WEAVING**

**OCCUPATION: WEAVING**

**REFERENCE ID: TSC/Q 2202**

**ALIGNED TO: NCO-2004 / 8262.90**

**Brief Job Description:** A shuttle-less loom weaver (projectile), is a job-role in a weaving department. The responsibility of Weaver – Projectile 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:** A shuttle-less loom weaver (projectile) 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	<b>Qualifications Pack Code</b>	<b>TSC/ Q 2202</b>		
	<b>Job Role</b>	<b>Shuttle-less Loom Weaver - Projectile</b>		
	<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
	<b>Sector</b>	<b>Textile</b>	<b>Drafted on</b>	<b>15/12/14</b>
	<b>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>
<b>Job Role</b>	<b>Ring Frame Tenter</b>			
<b>Role Description</b>	To run Projectile loom efficiently so as to get maximum output with minimum defects, giving due importance to safety and environmental aspects			
<b>NSQF level</b>	4			
<b>Minimum Educational Qualifications</b>	Preferably Class 10th			
<b>Maximum Educational Qualifications</b>	N/A			
<b>Training</b> (Suggested but not mandatory)	Preferably trained in weaving department.			
<b>Experience</b>	Not essential			
<b>National Occupational Standards (NOS)</b>	<p><b>Compulsory:</b></p> <ol style="list-style-type: none"> <li><a href="#">TSC/ N2203 Taking charge of shift and handing over shift to operator</a></li> <li><a href="#">TSC/ N2204 Run Projectile loom efficiently</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></p>			
<b>Performance Criteria</b>	As described in the relevant OS units			

**Table 1: Glossary of Key Terms**

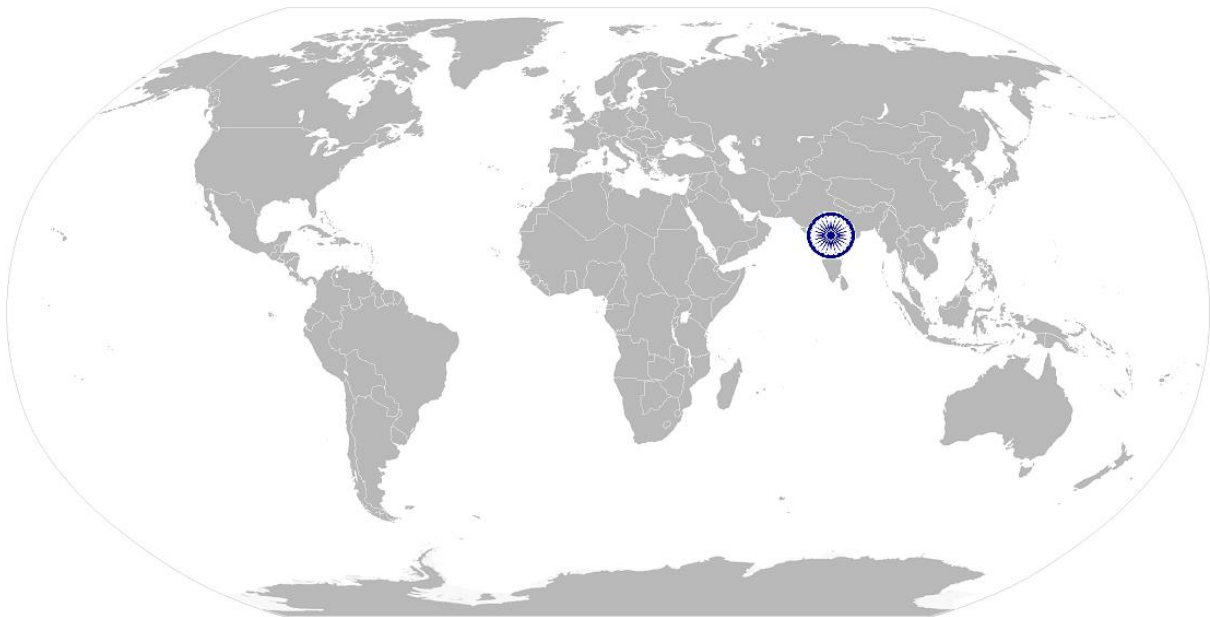
Definitions	Keywords /Terms	Description
	Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
	Sub-sector	Sub-sector is derived 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.
<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 Qualifications Framework
NCO	National Classifications of Occupation
TBD	To Be Determined
TSC	Textile Sector Skill Council
NSDC	National Skill Development Corporation

**Acronyms**



# National Occupational Standard



## Overview

This unit is about taking charge of shift from previous shift operator and relieving the responsibilities to the next shift operator

**TSC/ N2203**

**Taking charge of shift and handing over shift to operator**

<b>Unit Code</b>	<b>TSC/ N2203</b>
<b>Unit Title (Task)</b>	<b>Taking charge of shift and handing over shift to weaver</b>
<b>Description</b>	This unit is about taking charge of shift from previous shift weaver and relieving the responsibilities to the next shift weaver
<b>Scope</b>	<p><b>This unit/task covers the following:</b></p> <ul style="list-style-type: none"> <li>▪ Taking charge of shift</li> <li>▪ Handing over shift</li> </ul>
<b>Elements</b>	<b>Performance Criteria</b>
<b>Taking charge of shift</b>	<p>To be 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", "weft wire" " knife" etc.</p> <p>PC3. meet the previous shift weaver , discuss with him/ her regarding the issues faced by them with respect to the quality or production or spare or safety or any other specific instruction etc</p> <p>PC4. understand the type of fabric produced, specifications of fabrics, followed in the shuttle-less loom - projectile for his allocated number of looms or machines</p> <p>PC5. ensure the technical details are mentioned in the display board in the shuttle-less loom - projectile machine</p> <p>PC6. check for the availability of the weft cones &amp; check the condition of the same</p> <p>PC7. check the condition of the running beams , for cross ends, ends pulling out particularly at the selvedge's, catch card etc</p> <p>PC8. check the availability of the " thrums" , quality &amp; condition of the same</p> <p>PC9. 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, under tuck in , tails. etc</p> <p>PC10. check for the size of the cloth rolls &amp; to see whether any indication is there in the cloth rolls</p> <p>PC11. check the cleanliness of the machines &amp; other work areas</p> <p>PC12. check whether any spare/raw material/ tool / fabric/ any other material are thrown under the machines or in the other work areas.</p> <p>PC13. 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.</p> <p>PC14. proper functioning of shuttle-less loom - projectile machine parts and machine</p> <p>PC15. ensure the wastes collection boxes are empty while taking charge of shift</p> <p>PC16. ensure the work spot is clean</p>
<b>Handing over shift</b>	<p>PC17. hand over the shift to the incoming shuttle-less loom weaver - projectile in a proper manner</p> <p>PC18. ensure in providing the details regarding count produced, colour coding followed in the shuttle-less loom - projectile for his allocated number of looms or machines</p> <p>PC19. provide all relevant information regarding the type of fabric production,</p>



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**Taking charge of shift and handing over shift to operator**

	<p>damaged machine parts if any</p> <p>PC20. should get clearance from the incoming counterpart before leaving the work spot</p> <p>PC21. report to his/ her shift superiors as well as that of the incoming shift operator in case his/ her counterpart doesn't report for the incoming shift</p> <p>PC22. ensure the shift is properly handed over to the incoming shift operator</p> <p>PC23. 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>PC24. collect the waste from waste collection bags, weigh them and transport to storage area</p> <p>PC25. ensure the work spot is clean</p>
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**Knowledge and Understanding (K)**

<b>A. Organizational Context</b> (Knowledge of the company/ organization and its processes)	<p>You need to know and understand:</p> <p>KA1. Standard Operating Procedures (SOP) and regulations in a weaving mill</p> <p>KA2. safe working practices to be adopted in weaving mill</p> <p>KA3. quality systems and other processes practiced in the weaving mill</p> <p>KA4. reporting to the supervisor or higher authority in case of emergency</p> <p>KA5. color coding adopted for different counts in the weaving mill</p>
<b>B. Technical Knowledge</b>	<p>KB1. understanding the importance of</p> <ul style="list-style-type: none"> <li>• Types of fibres</li> <li>• Types of yarn</li> <li>• Yarn count</li> <li>• Types of fabric</li> <li>• Types of fabric defects</li> <li>• Types of weaving machines – auto loom, projectile, rapier, air jet, water jet</li> </ul> <p>KB2. process flow in a weaving mill</p> <p>KB3. material flow in a weaving mill</p> <p>KB4. functions of different parts of shuttle-less loom (projectile)</p> <p>KB5. importance of colour coding followed for different counts in weaving mill</p> <p>KB6. knowledge of waste collection system &amp; equipments used</p> <p>KB7. importance of material handling and types of material handling equipments used</p> <p>KB8. importance of cleanliness at workplace</p> <p>KB9. functions and methodology for operating different material handling equipments</p> <p>KB10. understanding the functions of different signal lamps</p> <p>KB11. guidelines for operating the shuttle-less loom (projectile)</p> <p>KB12. guidelines for taking charge of shift from previous shift operator</p> <p>KB13. guidelines for handing over the shift to the next shift operator</p> <p>KB14. safety procedures to be followed in a Shuttle-less Loom (projectile)</p>

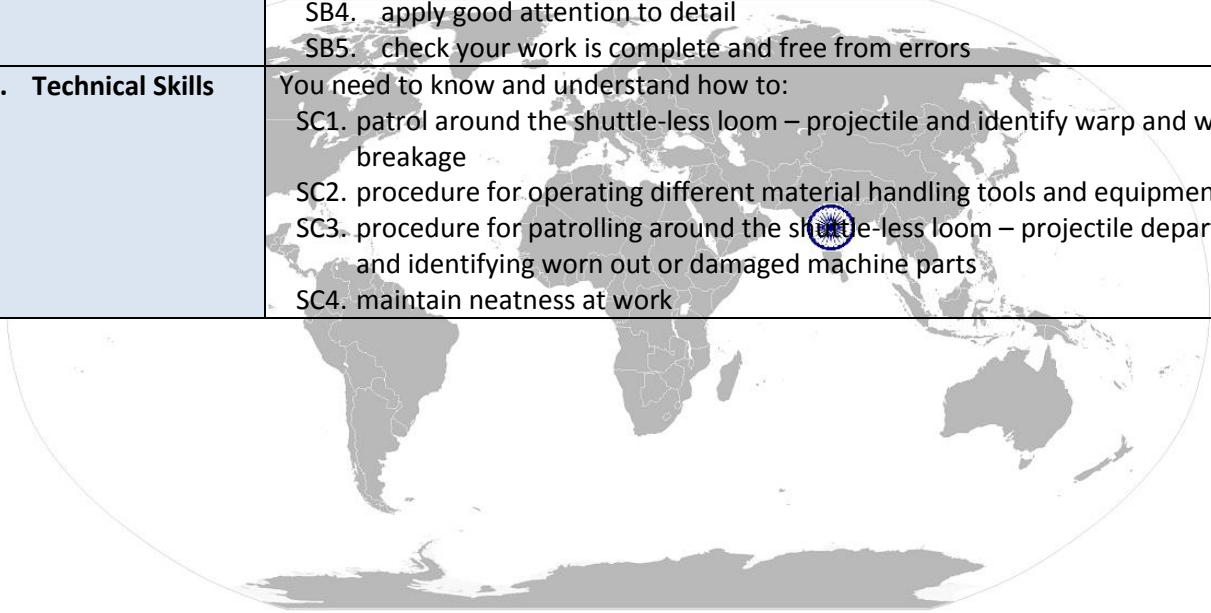
**Skills (S)**

<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>

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**Taking charge of shift and handing over shift to operator**

	<b>Reading Skills</b>
	You need to know and understand how to: SA2. comprehend written instructions
	<b>Oral Communication (Listening and Speaking skills)</b>
<b>B. Professional Skills</b>	You need to know and understand how to: SA3. communicate with supervisor appropriately SA4. talk to others to convey information effectively
	<b>Problem Solving</b>
	You need to know and understand how to: SB1. apply problem-solving approaches in different situations SB2. refer anomalies to the supervisor SB3. seek clarification on problems from others
<b>C. Technical Skills</b>	<b>Attention to Detail</b>
	You need to know and understand how to: SB4. apply good attention to detail SB5. check your work is complete and free from errors
	You need to know and understand how to: SC1. patrol around the shuttle-less loom – projectile and identify warp and weft breakage SC2. procedure for operating different material handling tools and equipments SC3. procedure for patrolling around the shuttle-less loom – projectile departments and identifying worn out or damaged machine parts SC4. maintain neatness at work



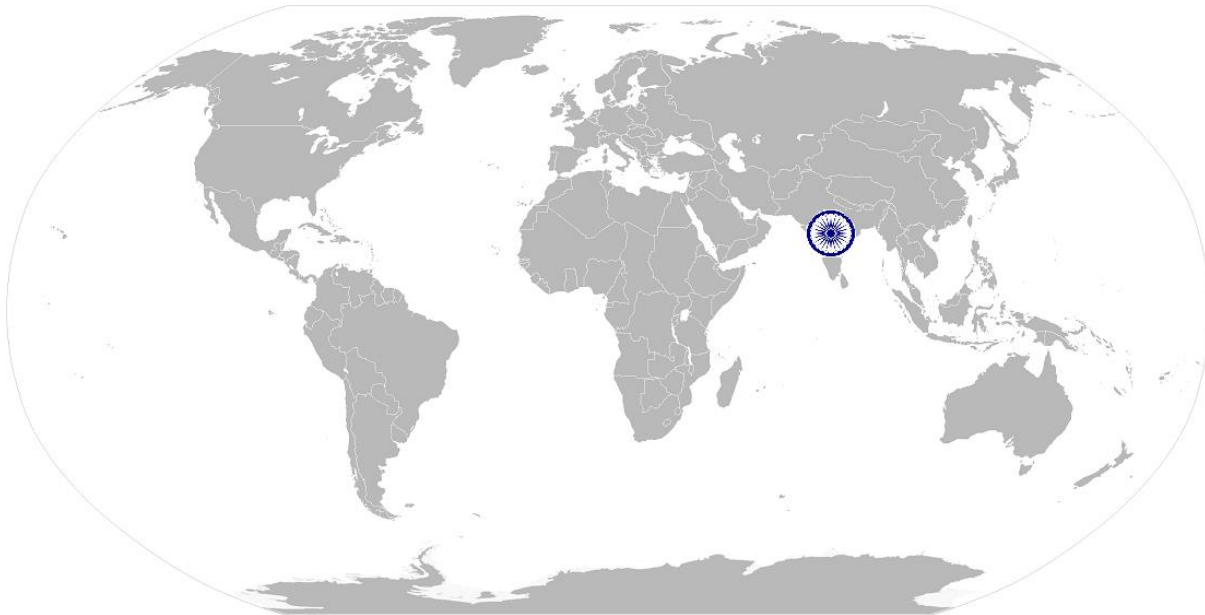


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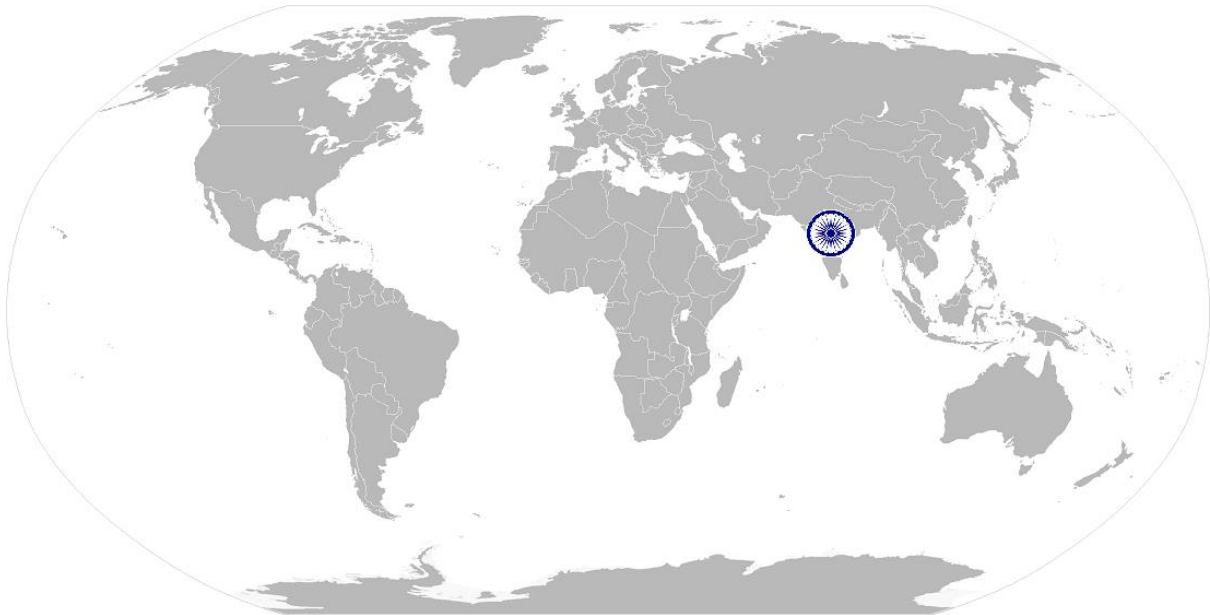
**Taking charge of shift and handing over shift to operator**

**NOS Version Control**

<b>NOS Code</b>	<b>TSC/ N2203</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>



# National Occupational Standard



## Overview

**This unit provides performance criteria, knowledge & understanding and skills & abilities required to run projectile loom**

TSC/N2204

Run the projectile loom efficiently

Unit Code	TSC/ N2204
Unit Title (Task)	Run the projectile loom efficiently
<b>Description</b>	This unit provides performance criteria ,knowledge & understanding and skills & abilities required to run projectile loom, by attending to warp breakages, weft breakages so as to get maximum output & minimum defects, without entertaining any damage to the people , the machine etc., without wasting much of raw materials, spares, tools etc., & without spoiling the environmental aspects.
<b>Scope</b>	<b>This unit/task covers the following:</b> <ul style="list-style-type: none"> <li>▪ Weaver’s Knot</li> <li>▪ Attending to warp break</li> <li>▪ Attend the weft breakage</li> <li>▪ Other work practices</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
Elements	Performance Criteria
Weaver’s knot	To be competent, you must be able to: PC1. do tiny and firm weaver’s knots PC2. Ensure the weavers knot is of minimum size to pass easily through the healed wires and reed
Attending to Warp Break	PC3. check the indicating lamp PC4. find out the broken warp end PC5. find out the location of the broken end, by bringing the hands under the dropper bars , with mechanical droppers PC6. use electrical warp stop motion , to detect the location using the indication lamp and by bringing the hands over the droppers PC7. mend the broken warp end in the sized beams with the thrums of the same count of the sized beams, using " weavers ' knots" PC8. draw the mended warp yarn through the healds properly , as per the drawing order prescribed PC9. start the loom without inching/ in one stroke PC10. check the indicator lamp PC11. find out the breakage place ( whether it is before accumulator or in the accumulator or in the weft feeder or in the projectile )
Attend the weft breakage	PC12. use weft wire if the weft is cut before accumulator or in the accumulator PC13. find out the last pick inserted in the produced cloth, by ensuring proper pick finding PC14. start the loom without inching/ in one stroke
Other work practices	PC15. 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 PC16. clean the machines and 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”. It has to be used for cleaning, only in the areas. “ Air Cleaning “ is permitted PC17. " Unweave " any floats & should be able to run the machine without " Starting

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Run the projectile loom efficiently

	<p>Mark or Crack"</p> <p>PC18. ensure that the loose threads are hanged in higher length (not more than 4 mm), after attending to the warp breaks. accordingly, it has to be trimmed</p> <p>PC19. draw catch card ends properly</p> <p>PC20. ensure the size of the catch card &amp; the selvedge</p> <p>PC21. weft yarn reserve packages have to be tied with tail ends of the running weft yarn package &amp; ensure proper transfer</p> <p>PC22. patrol the machines and do mending so as to minimise the stoppages</p> <p>PC23. tie the "waste 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, at the end of the shift.</p> <p>PC24. ensure that the correct weft yarn, as per the "loom card" only is used</p> <p>PC25. 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</p> <p>PC26. avoid pulling out warp ends or catch card ends, unnecessarily. if end is getting cut often in the selvedge or in the catch card, , the same has to be brought to the notice of the mechanics/ fitters/ superiors &amp; get it corrected</p> <p>PC27. ensure that all the stop motions, indication lamps , preventive mechanisms etc., function properly</p> <p>PC28. ensure correct quality of thrums are there &amp; see that the same are properly tied</p> <p>PC29. check the knotted loom for knotting quality etc. double ends have to be removed</p> <p>PC30. report to superiors for any deviation in the same &amp; for any other quality issue</p> <p>PC31. ensure that his/ her looms are stopped for a minimum possible down time due to whatever reason &amp; see that he/ she gets maximum outputs in his/ her shift</p> <p>PC32. check the fabrics for the defects at least twice in a shift and sign on the cloth in both times</p> <p>PC33. ensure that cloth rolls are doffed whenever/ wherever necessary</p> <p>PC34. 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>PC35. 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>PC36. check for the reasons for the frequent warp/ weft breaks. the reasons that could be corrected by him/ herself should be corrected. otherwise, the same has to be reported to the mechanics/ fitters/ superiors</p>
<p><b>Knowledge and Understanding (K)</b></p>	
<p><b>A. Organizational Context</b>                  (Knowledge of the company/ organization and its processes)</p>	<p>You need to know and understand:</p> <p>KA1. the organization's policies and standard operating procedures (SOP)</p> <p>KA2. should have an awareness, 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>

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Run the projectile loom efficiently

	<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 rolls &amp; responsibilities</p> <p>KA7. documentation and reporting formats</p> <p>KA8. work targets &amp; review machine 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 .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>B. Technical Knowledge/ Domain knowledge about products</b>	<p>You need to know and understand:</p> <p>KB1. 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, weave etc.</p>
<b>About the raw materials</b>	<p>KB3. yarns from natural fibres - cotton, silk, wool</p> <p>KB4. yarns from manmade fibres - polyester, nylon, viscose</p> <p>KB5. blended yarns - Polyester Cotton, Polyester Viscose</p>
<b>About different types of looms</b>	<p>KB6. Hand loom</p> <p>KB7. Power Loom- conventional loom</p> <p>KB8. Auto Loom- Shuttle Loom</p> <p>KB9. Shuttle less Loom-Rapier, Projectile, Air jet, Water jet</p> <p>KB10. Tappet loom/ Cam Loom/ Crank Loom , Dobby Loom, Jacquard Loom</p>
<b>About Type Of Weaves</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, 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, Under Tick In, Tails</p> <p>KB14. Spinning Faults - Thin Place, Thick Place, Neps, Kitties, Contamination,</p> <p>KB15. Colour Flies, Yarn variation, Shade Variation</p> <p>KB16. Sizing Faults - Shade variation, Size Patches, Sizing Oil, Bead formation,</p> <p>KB17. Weaving Faults - Wrong Weft, Wrong Pattern, Less Width, Low EPI, Low PPI, Wrong Warp,</p>
<b>Inspection Standard</b>	<p>KB18. 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>

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Run the projectile loom efficiently

<p><b>British system of grading Cuttable faults, Warp way, Continuous faults, Specification deviation</b></p>	<p>KB19. A Grade</p> <ul style="list-style-type: none"> <li>• No Cuttable Faults</li> <li>• No Warp Way</li> <li>• Continuous Faults</li> <li>• No 3 Major Faults</li> <li>• 15 minor points</li> </ul> <p>KB20. B Grade</p> <ul style="list-style-type: none"> <li>• Rejection.</li> <li>• Deviation from A Grade</li> </ul> <p>KB21. . Cuttable Faults</p> <ul style="list-style-type: none"> <li>• Hole</li> <li>• Let - Off</li> <li>• Take - Up</li> <li>• Selvedge Cut</li> <li>• Weft Crack</li> <li>• Cloth Torn</li> <li>• Wrong Pattern</li> <li>• Bad Shedding</li> <li>• Size Patches</li> <li>• Sizing Oil</li> <li>• Bead Formation</li> <li>• Wrong weft</li> </ul> <p>KB22. Major Faults</p> <ul style="list-style-type: none"> <li>• Wrong Drawing</li> <li>• Wrong Denting</li> <li>• End Out</li> <li>• Double End</li> <li>• Temple Mark</li> <li>• Temple Cut</li> <li>• Emery Hole</li> <li>• Emery Cut</li> <li>• Emery Mark</li> <li>• Impression Mark</li> <li>• Guide Tooth Mark</li> <li>• Under Tuck In</li> <li>• Tails</li> <li>• Warp Stitches</li> <li>• Warp Floats</li> <li>• Reed Mark</li> <li>• Bad Selvedge</li> <li>• Yarn Variation</li> <li>• Shade Variation</li> </ul> <p>KB23. Cloth Width –</p> <ul style="list-style-type: none"> <li>• No Minus is accepted &amp; No excess above 0.5" is accepted</li> </ul>
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TSC/N2204

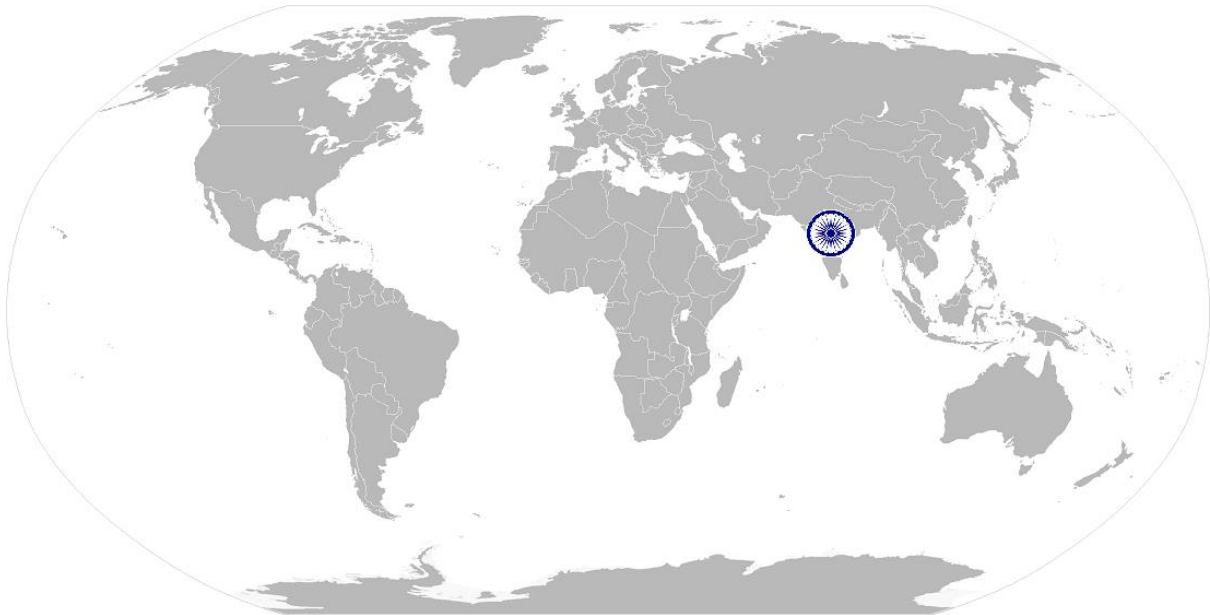
Run the projectile loom efficiently

	KB24. Ends Per Inch – <ul style="list-style-type: none"> <li>• Plus or Minus 2 is accepted</li> </ul> KB25. Picks Per Inch – <ul style="list-style-type: none"> <li>• Plus or Minus 1</li> </ul>
<b>American system</b>	KB26. A Grade – <ul style="list-style-type: none"> <li>• No Cuttable Faults,</li> <li>• No Warp Way Continuous Faults</li> <li>• No grading Export Specification Deviation</li> <li>• Maximum 15 points for 100 Square meter standard -piece</li> </ul> KB27. B Grade – <ul style="list-style-type: none"> <li>• Rejection.</li> <li>• Deviation from A Grade lengths</li> </ul>
	KB28. between 40 metres to 79.75 metres (20% variation from Buyer to Buyer) KB29. above 80 metres - 80%
<b>Safety mechanism</b>	KB30. the safety mechanisms of the machines & should ensure that the same are in order KB31. about the stop motions & should ensure that the same are in order KB32. the indication lamps & should ensure that the same are in order
<b>Machine operations</b>	KB33. the functional operations of the machines, where He/ She is working
<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>
	You need to know and understand how to: SA2. comprehend written instructions
	<b>Oral Communication (Listening and Speaking skills)</b>
	You need to know and understand how to: SA3. communicate with supervisor appropriately SA4. talk to others to convey information effectively
	<b>Participation</b>
	SA5. willingly participate in the various programs/ meetings that will be conducted by the superiors SA6. put forth the suggestions in the interest of the company SA7. willingly participate in the " quality circles" that will be formed by the superiors SA8. extend voluntary supports and adapt to the various procedures that will be 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>B. Professional Skills</b>	<b>Weaver's knots</b>
	You need to know and understand how to

TSC/N2204

Run the projectile loom efficiently

	SB1. put minimum 15 knots/ minute
	<b>Attending to Weft break</b>
	You need to know and understand how to:
	SB2. attend the weft break within 30 seconds
	SB3. check your work is complete and free from errors
<b>C. Technical Skills</b>	<b>Attending to Warp break</b>
	SC1. attend a single warp end through dropper, Heald and reed dent in 45 to 60 seconds depending on the automation of the machines/ type of weave etc.
	<b>Quality evaluation</b>
	SC2. weave fabric free from " Weaver oriented damages " such as " Wrong Drawing" , " Wrong Denting" " End Out " " Double End" etc.

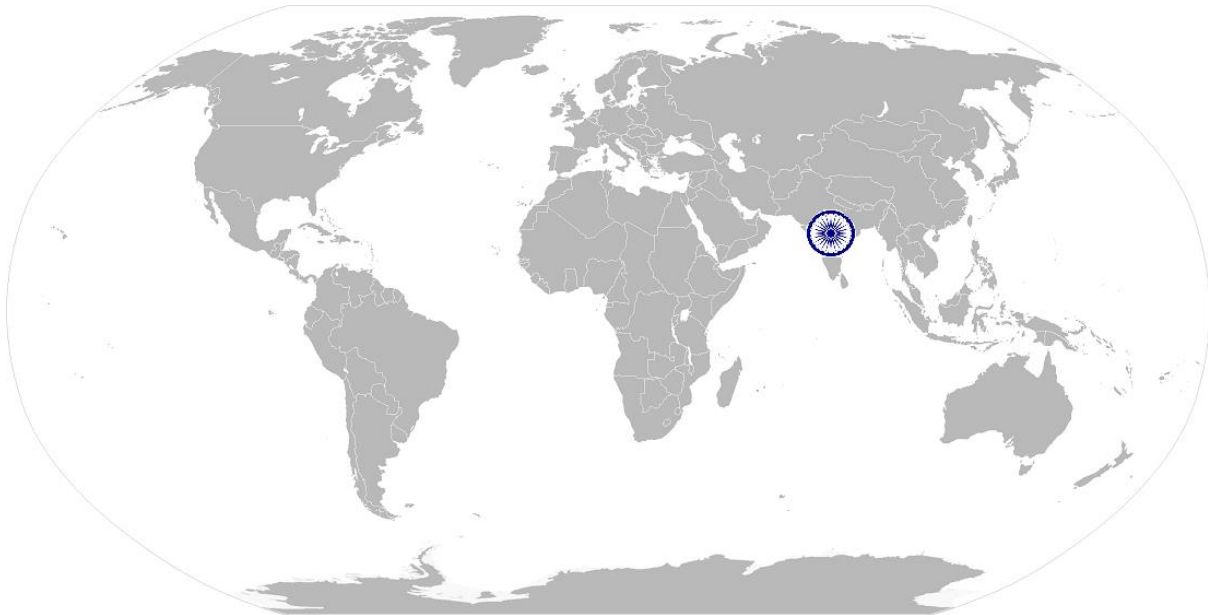


TSC/N2204

Run the projectile loom efficiently

**NOS Version Control**

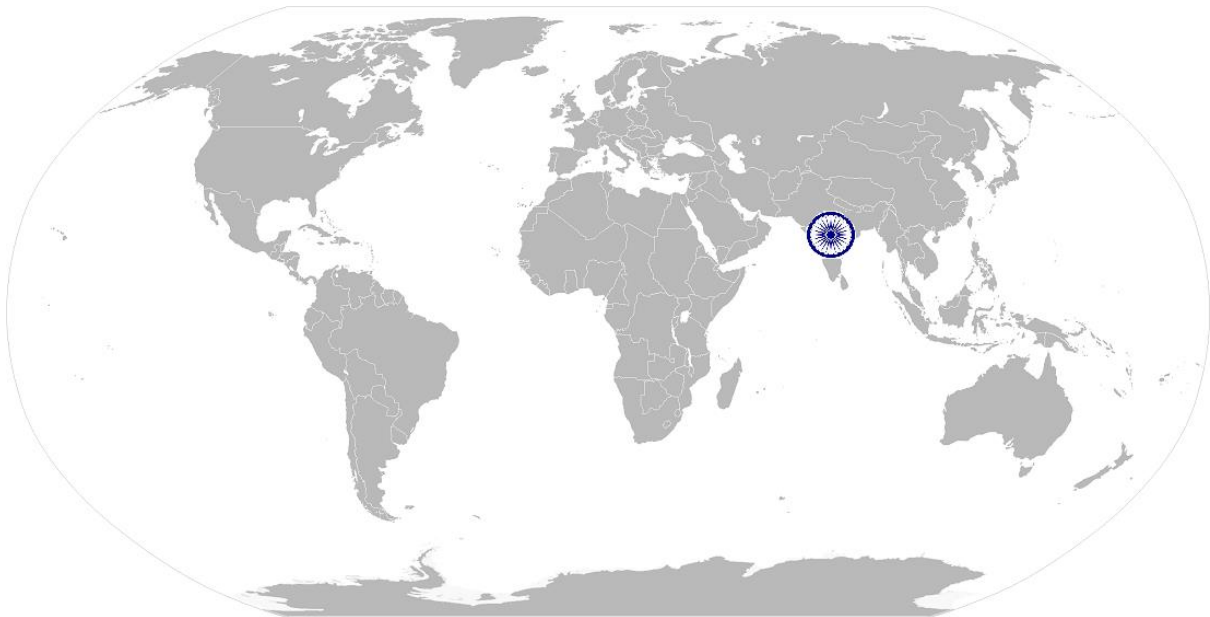
<b>NOS Code</b>	<b>TSC/ N2204</b>		
<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Textile</b>	<b>Drafted on</b>	<b>15/12/14</b>
<b>Industry Sub-sector</b>	<b>Weaving</b>	<b>Last reviewed on</b>	<b>21/01/15</b>
<b>Occupation</b>	<b>Weaving</b>	<b>Next review date</b>	<b>01/03/16</b>



TSC/ N9001

Maintaining 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**

**Maintaining 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>
Maintain the work area, tools and machines	<p>To be competent, you must be able to:</p> <p>PC1. handle materials, machinery, equipment and tools with care and use them in the correct way</p> <p>PC2. use correct lifting and handling procedures</p> <p>PC3. use materials to minimize waste</p> <p>PC4. maintain a clean and hazard free working area</p> <p>PC5. maintain tools and equipment</p> <p>PC6. carry out running maintenance within agreed schedules</p> <p>PC7. carry out maintenance and/or cleaning within one's responsibility</p> <p>PC8. report unsafe equipment and other dangerous occurrences</p> <p>PC9. ensure that the correct machine guards are in place</p> <p>PC10. work in a comfortable position with the correct posture</p> <p>PC11. use cleaning equipment and methods appropriate for the work to be carried out</p> <p>PC12. dispose of waste safely in the designated location</p> <p>PC13. store cleaning equipment safely after use</p> <p>PC14. carry out cleaning according to schedules and limits of responsibility</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company/ organization and its processes)	<p>You need to know and understand:</p> <p>KA1. organizational standard operating procedures (SOP)</p> <p>KA2. limits of your own responsibility</p> <p>KA3. ways of resolving with problems within the work area</p> <p>KA4. the production process and the specific work activities that relate to the whole process</p> <p>KA5. the importance of effective communication with supervisors</p> <p>KA6. the lines of communication, authority and reporting procedures</p> <p>KA7. the organization's rules, codes and guidelines (including timekeeping)</p> <p>KA8. the company's quality standards</p> <p>KA9. the importance of complying with written instructions</p> <p>KA10. equipment operating procedures / supervisor's instructions</p>
<b>B. Technical Knowledge</b>	<p>You need to know and understand:</p> <p>KB1. work instructions and specifications and interpret them accurately</p> <p>KB2. relation between work role and the overall manufacturing process</p> <p>KB3. hazards likely to be encountered when conducting routine maintenance</p> <p>KB4. the importance of taking action when problems are identified</p>

**TSC/ N9001**

**Maintaining work area, tools and machine**

	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
<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>
	You need to know and understand how to: SA2. comprehend written instructions SA3. read any application sent by other colleagues
	<b>Oral Communication (Listening and Speaking skills)</b>
<b>B. Professional 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
	<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
	<b>Attention to Detail</b>
<b>C. Technical Skills</b>	You need to know and understand how to: 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
	You need to know and understand : SC1. communicate effectively SC2. apply leadership skills wherever required SC3. take initiative at the right place SC4. understand the requirement to be creative

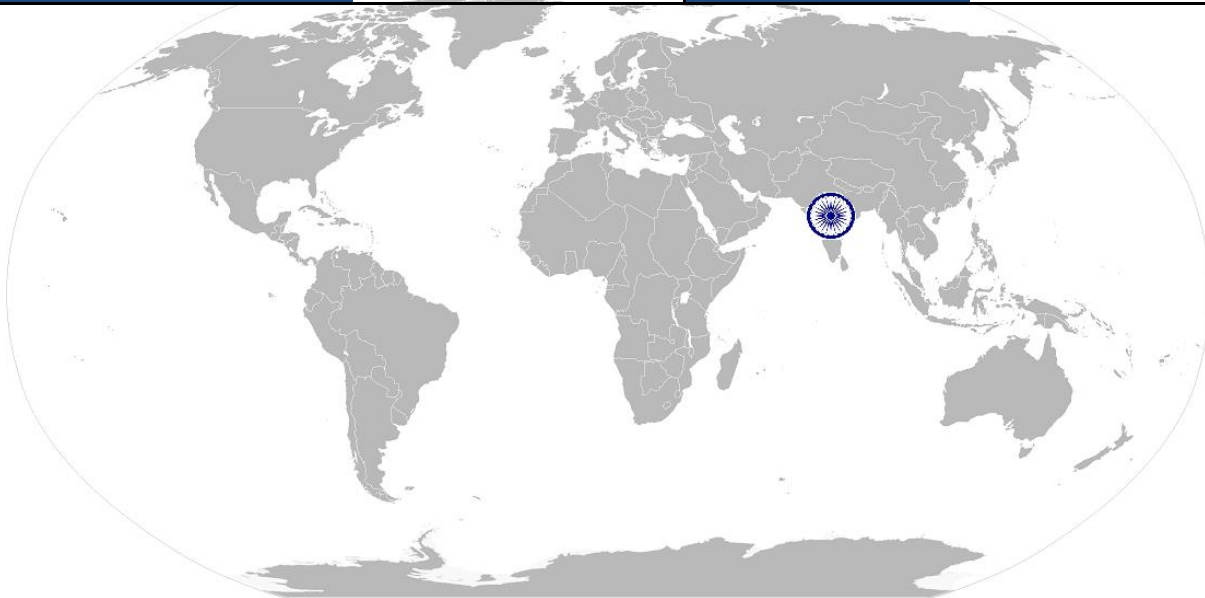


**TSC/ N9001**

**Maintaining work area, tools and machine**

**NOS Version Control**

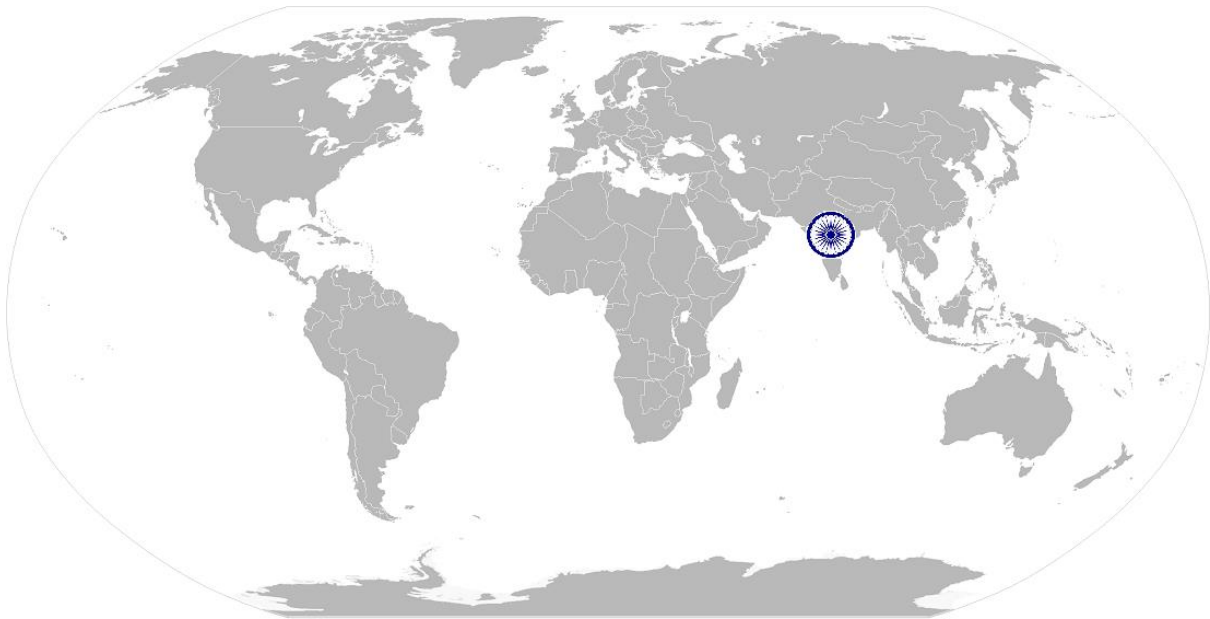
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<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Textile</b>	<b>Drafted on</b>	<b>15/12/14</b>
<b>Industry Sub-sector</b>	<b>Weaving</b>	<b>Last reviewed on</b>	<b>21/01/15</b>
<b>Occupation</b>	<b>Weaving</b>	<b>Next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

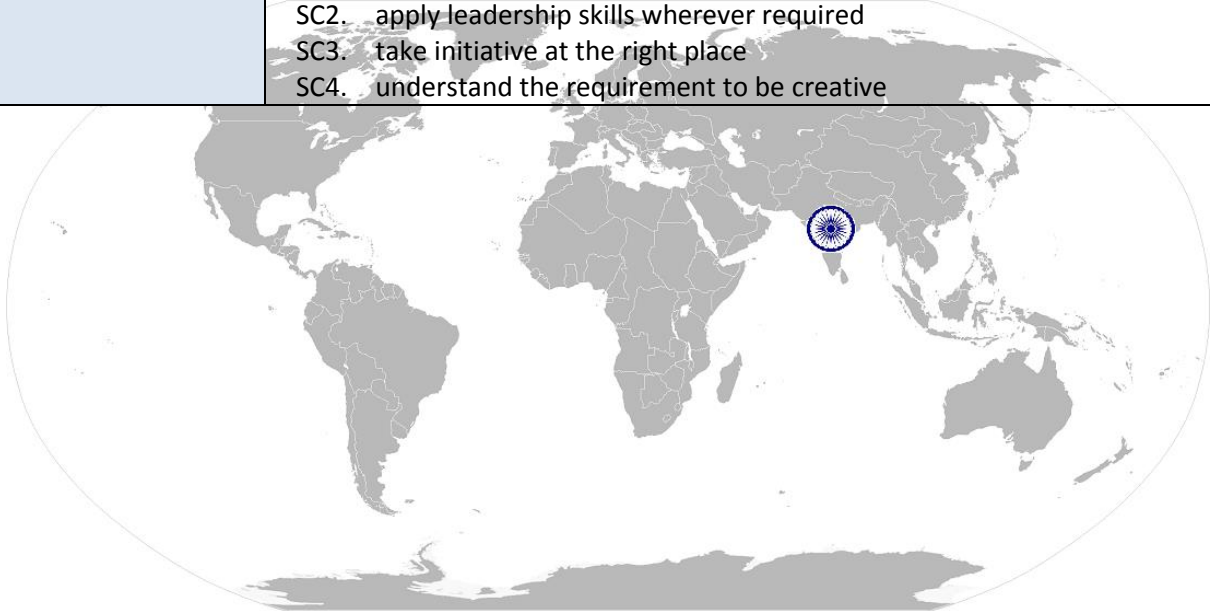
**Working in a team**

<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>
Commitment and trust	<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>
Communication	<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>
Adaptability	<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>
Creative freedom	<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 textile mill</p> <p>KA2. procedure followed to get the final output in the mill</p> <p>KA3. safe working practices to be adopted in 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 textile mill and the concerned workers</p> <p>KB3. material flow in a textile mill and the required person</p> <p>KB4. functions of different parts of the machine</p> <p>KB5. tools and equipments used</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>
	<b>Reading Skills</b>

**TSC/ N9002**

**Working in a team**

	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
	<b>Attention to Detail</b>
	SB3. apply good attention to detail SB4. ensure every kind of communication is error free
<b>C. Technical Skills</b>	You need to know and understand how to: SC1. communicate effectively SC2. apply leadership skills wherever required SC3. take initiative at the right place SC4. understand the requirement to be creative

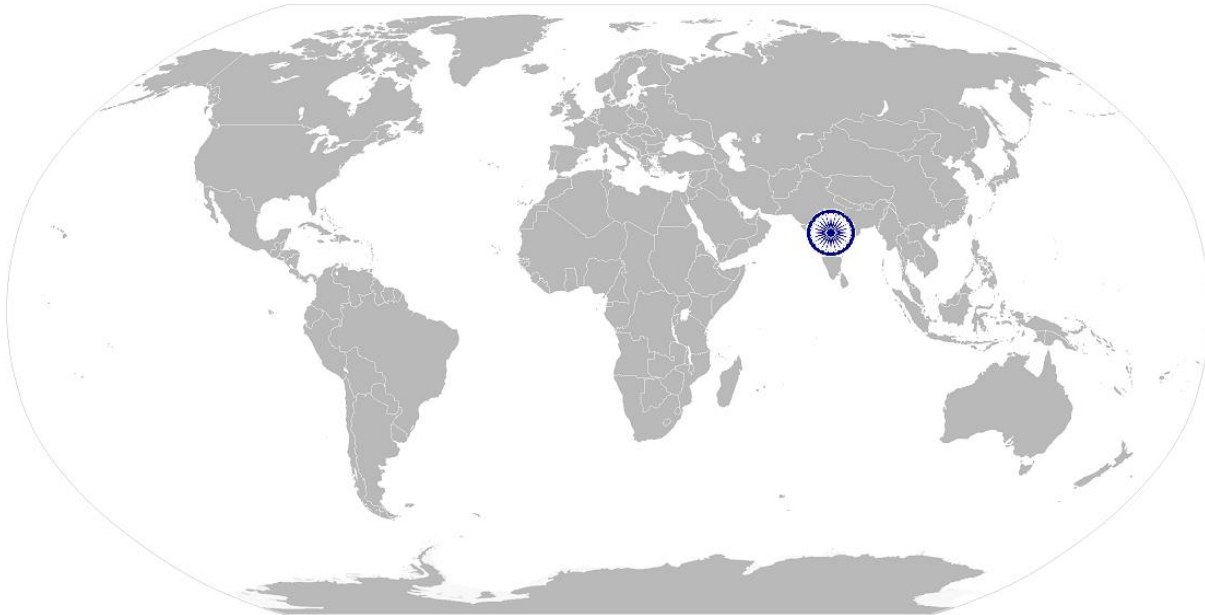


**TSC/ N9002**

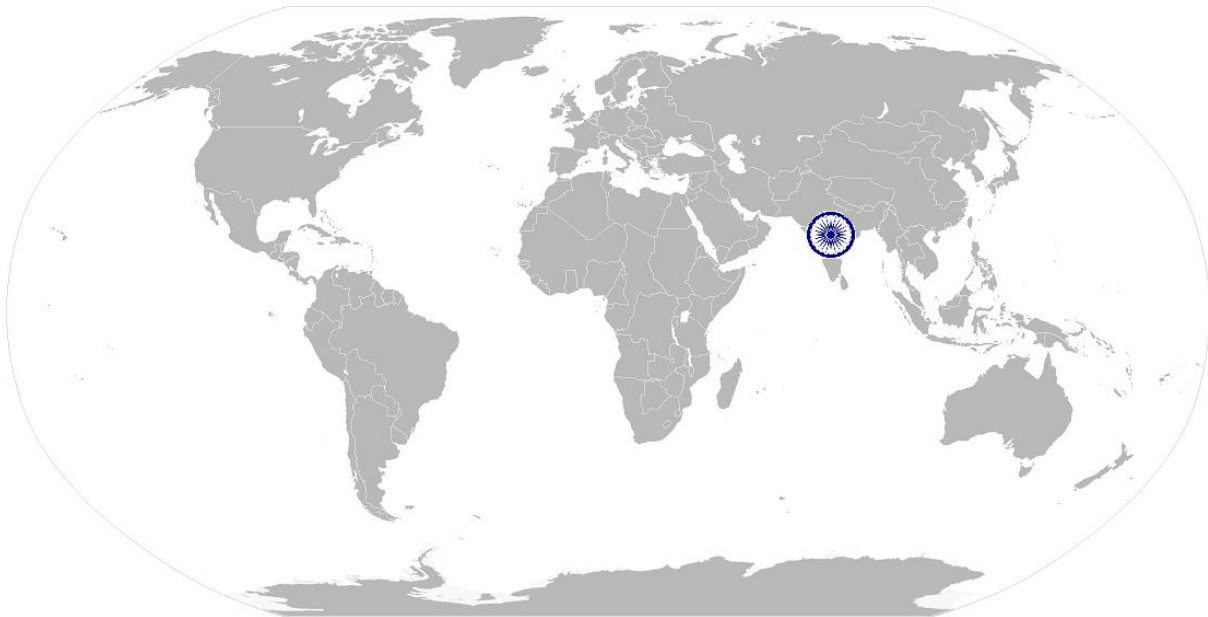
**Working in a team**

**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>



# 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 (PC) w.r.t. the Scope</b>	
<b>Elements</b>	<b>Performance Criteria</b>
Comply with health, Safety and security requirements at work	<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>
Recognizing the hazards	<p>To be competent, you must be able to:</p> <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>

**TSC/ N9003**

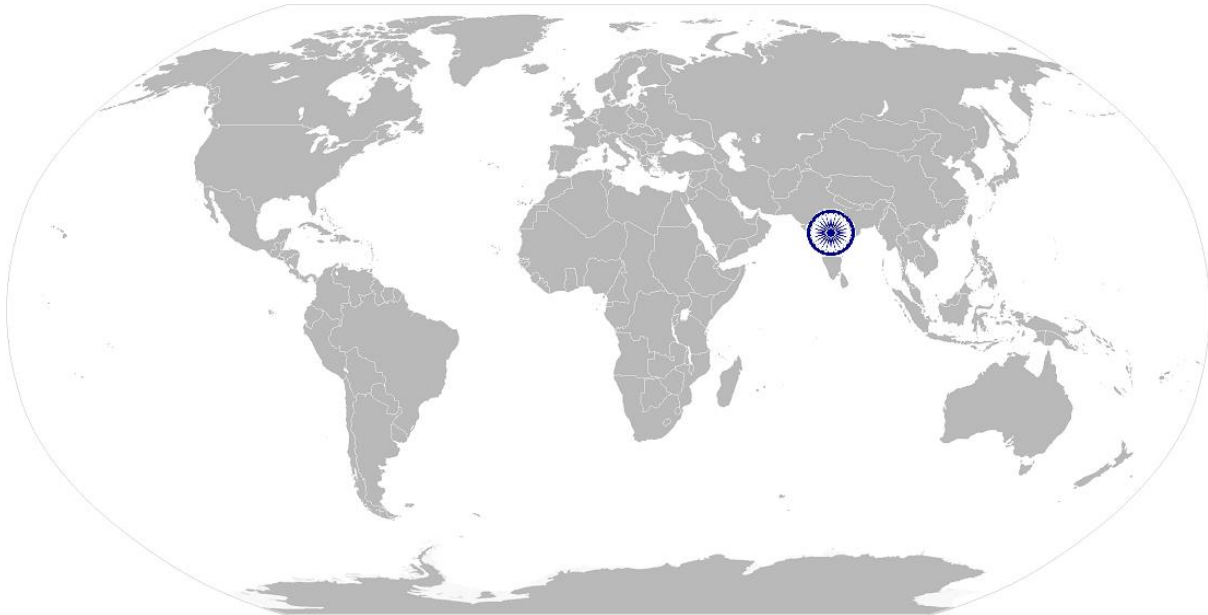
**Maintain health, safety and security at work place**

Planning the safety techniques	PC21. recognise different measures to curb the hazards
Implementing the programs	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 textile mill KA2. safe working practices to be adopted in textile mill KA3. quality systems and other processes practiced in the 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
	<b>Attention to Detail</b>
	SB5. be attentive to details SB6. be careful to avoid occurrence of hazards
<b>C. Technical Skills</b>	You need to know and understand : SC1. maintenance of neatness at work SC2. procedure for reporting unwanted behavior

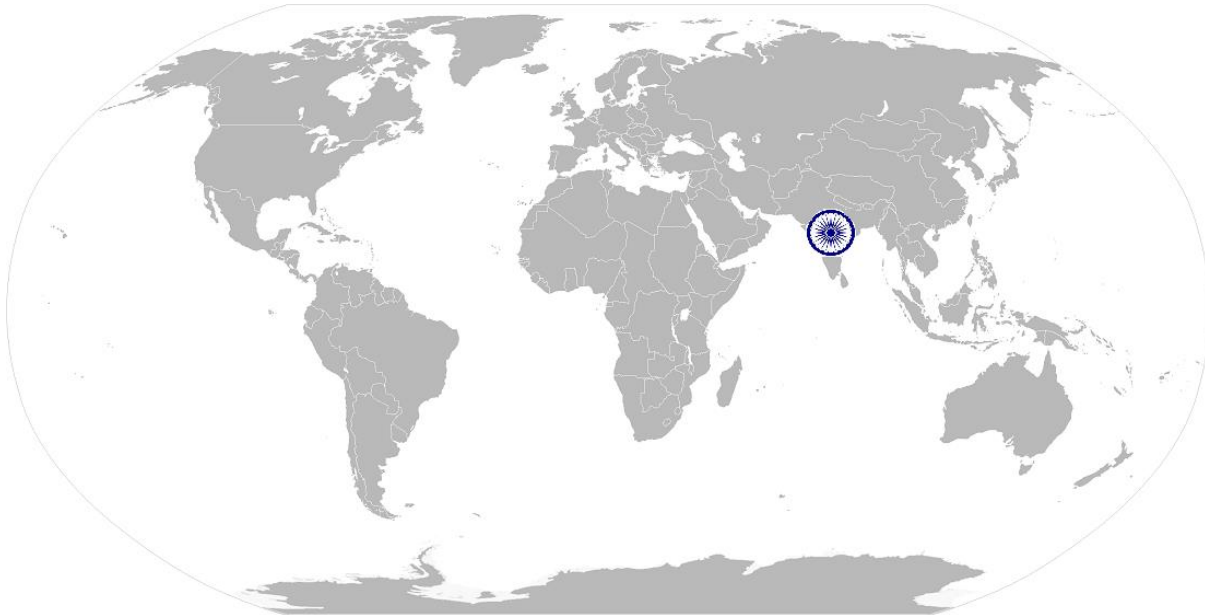


**TSC/ N9003**

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

**NOS Version Control**

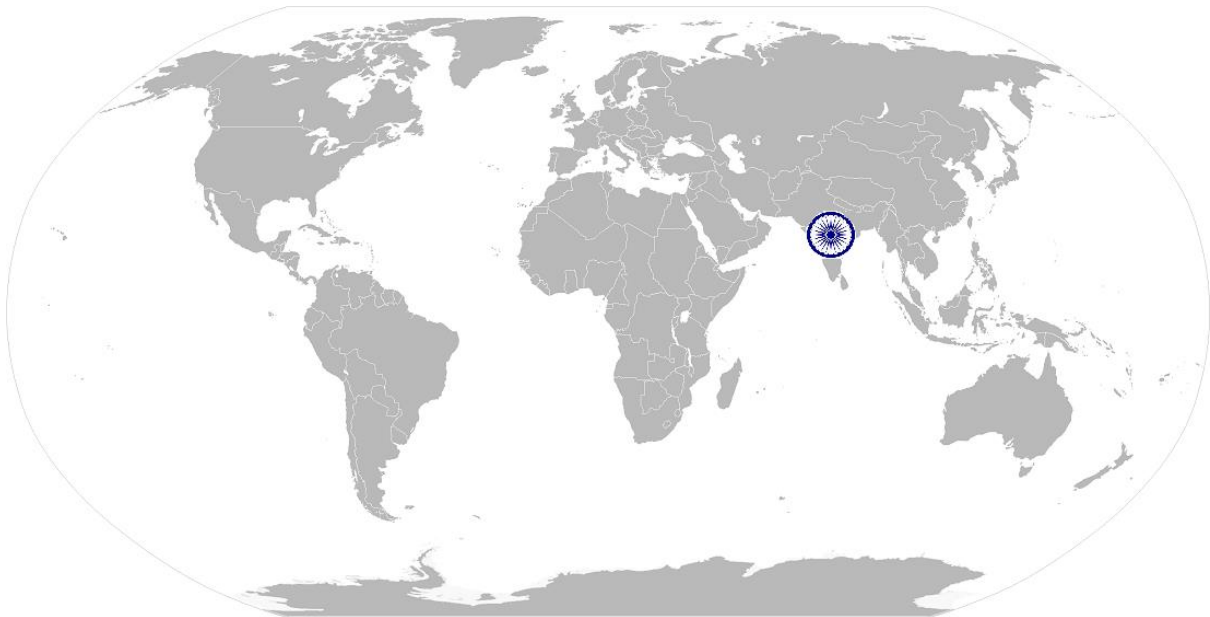
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<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Textile</b>	<b>Drafted on</b>	<b>15/12/14</b>
<b>Industry Sub-sector</b>	<b>Weaving</b>	<b>Last reviewed on</b>	<b>21/01/15</b>
<b>Occupation</b>	<b>Weaving</b>	<b>Next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



**TSC/ 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>	<p><b>This unit/task covers the following:</b></p> <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>
	Self- development	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
	Team work	PC6. co-ordinate with all the team members and colleagues PC7. communicate politely PC8. avoid conflicts and miscommunication
	Organizational standards	PC9. know the organisational standards PC10. implement them in your performance PC11. motivate others to follow them
	Industry standards	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 textile 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 and material flow in a textile 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. Technical skills</b>	you need to know and understand : SC1. Organizational requirements SC2. your responsibilities at the workplace SC3. procedure to comply with the industry standards

**TSC/ N9004**

**Comply with industry and organizational requirements**

**NOS Version Control**

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

### Assessment Criteria

**Job Role: Shuttle-less Loom Weaver - Projectile**  
**Qualification Pack: TSC/Q 2202**  
**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 evaluations for skill practical for every student at each examination/training centre (as per assessment criteria below).
4. To pass the qualification pack, every trainee should score a minimum of 80%.

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Skills Practical	Theory	Viva
<b>1. TSC/ N2203 Taking charge of shift and handing over shift to operator</b>	PC1. come at least 10 - 15 minutes earlier to the work spot	<b>100</b>	4	4	0	0
	PC2. bring the necessary operational tools like "weavers' hook", "weft wire" " knife" etc.		4	4	0	0
	PC3. meet the previous shift weaver , discuss with him/ her regarding the issues faced by them with respect to the quality or production or spare or safety or any other specific instruction etc		4	4	0	0
	PC4. understand the type of fabric produced, specifications of fabrics, followed in the shuttle-less loom - projectile for his allocated number of looms or machines		4	2	2	0
	PC5. ensure the technical details are mentioned in the display board in the shuttle-less loom - projectile machine		4	2	2	0
	PC6. check for the availability of the weft cones & check the condition of the same		4	2	2	0

### Assessment Criteria

PC7. check the condition of the running beams , for cross ends, ends pulling out particularly at the selvedge's, catch card etc	4	2	0	2
PC8. check the availability of the " thrums" , quality & condition of the same	4	2	2	0
PC9. 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, under tuck in , tails. etc	4	2	2	0
PC10. check for the size of the cloth rolls & to see whether any indication is there in the cloth rolls	4	2	2	0
PC11. check the cleanliness of the machines & other work areas	4	2	1	1
PC12. Check whether any spare/raw material/ tool / fabric/ any other material are thrown under the machines or in the other work areas.	4	2	0	2
PC13. 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.	4	2	0	2
PC14. proper functioning of shuttle-less loom - projectile machine parts and machine	4	2	0	2
PC15. ensure the wastes collection boxes are empty while taking charge of shift	4	2	0	2
PC16. ensure the work spot is clean	4	2	2	0
PC17. hand over the shift to the incoming shuttle-less loom weaver - projectile in a proper manner	4	2	2	0

### Assessment Criteria

	PC18. ensure in providing the details regarding count produced, color coding followed in the shuttle-less loom - projectile for his allocated number of looms or machines		4	2	0	2
	PC19. provide all relevant information regarding the type of fabric production, damaged machine parts if any		4	1	2	1
	PC20. should get clearance from the incoming counterpart before leaving the work spot		4	1	2	1
	PC21. report to his/ her shift superiors as well as that of the incoming shift operator in case his/ her counterpart doesn't report for the incoming shift		4	2	2	0
	PC22. ensure the shift is properly handed over to the incoming shift operator		4	2	1	1
	PC23. 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		4	0	2	2
	PC24. collect the waste from waste collection bags, weigh them and transport to storage area		4	0	2	2
	PC25. ensure the work spot is clean		4	2	2	0
			100	50	30	20
	<b>Total</b>	<b>Weight age %</b>		50%	30%	20%
<b>2. TSC/ N2204 Run Projectile loom efficiently</b>	PC1. do tiny and firm weaver's knots	<b>300</b>	8	4	4	0
	PC2. Ensure the weavers knot is of minimum size to pass easily through the heated wires and reed		8	6	0	2
	PC3. check the indicating lamp		8	4	0	4

### Assessment Criteria

PC4. find out the broken warp end	12	4	4	4
PC5. find out the location of the broken end, by bringing the hands under the dropper bars , with mechanical droppers	12	6	6	0
PC6. use electrical warp stop motion , to detect the location using the indication lamp and by bringing the hands over the droppers	8	4	4	0
PC7. mend the broken warp end in the sized beams with the thrums of the same count of the sized beams, using " weavers ' knots"	8	4	4	0
PC8. draw the mended warp yarn through the heralds properly , as per the drawing order prescribed	8	6	0	2
PC9. start the loom without inching/ in one stroke	8	6	0	2
PC10. check the indicator lamp	12	6	6	0
PC11. find out the breakage place ( whether it is before accumulator or in the accumulator or in the weft feeder or in the projectile )	8	4	4	0
PC12. use weft wire if the weft is cut before accumulator or in the accumulator	8	6	2	0
PC13. find out the last pick inserted in the produced cloth, by ensuring proper pick finding	8	4	2	2
PC14. start the loom without inching/ in one stroke	8	4	2	2
PC15. 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	4	4	0



### Assessment Criteria

PC16. clean the machines and 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". It has to be used for cleaning, only in the areas. " Air Cleaning " is permitted	8	6	2	0
PC17. " Unweave " any floats & should be able to run the machine without " Starting Mark or Crack"	8	6	2	0
PC18. Ensure that the loose threads are hanged in higher length (not more than 4 mm), after attending to the warp breaks. accordingly, it has to be trimmed	8	6	2	0
PC19. draw catch card ends properly	8	4	4	0
PC20. ensure the size of the catch card & the selvages	8	4	4	0
PC21. weft yarn reserve packages have to be tied with tail ends of the running weft yarn package & ensure proper transfer	8	4	4	0
PC22. patrol the machines and do mending so as to minimize the stoppages	8	4	4	0
PC23. Tie the "waste 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	4	4	0
PC24. ensure that the correct weft yarn, as per the " loom card" only is used	8	5	3	0
PC25. 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	8	5	3	0

### Assessment Criteria

	notice of the superiors					
	PC26. Avoid pulling out warp ends or catch card ends, unnecessarily. if end is getting cut often in the selvages or in the catch card, , the same has to be brought to the notice of the mechanics/ fitters/ superiors & get it corrected	8	5	3	0	
	PC27. ensure that all the stop motions, indication lamps , preventive mechanisms etc., function properly	8	4	4	0	
	PC28. ensure correct quality of thrums are there & see that the same are properly tied	8	6	2	0	
	PC29. check the knotted loom for knotting quality etc. double ends have to be removed	8	6	2	0	
	PC30. report to superiors for any deviation in the same & for any other quality issue	8	6	2	0	
	PC31. 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	4	0	4	
	PC32. check the fabrics for the defects at least twice in a shift and sign on the cloth in both times	8	5	3	0	
	PC33. ensure that cloth rolls are doffed whenever/ wherever necessary	8	4	2	2	
	PC34. Give preference to safety. Should not enter the area, where he/ she are not allowed.	8	8	0	0	
	should not do a job in which training has not being given					

### Assessment Criteria

	PC35. Ensure that no raw material/ cloth/ spare/ tool / any other material is thrown under/ near the machines or in the other work areas.		8	8	0	0
	PC36. Check for the reasons for the frequent warp/ weft breaks. The reasons that could be corrected by him/ herself should be corrected. otherwise, the same has to be reported to the mechanics/ fitters/ superiors		8	6	2	0
			300	182	94	24
	<b>Total</b>	<b>Weight age %</b>		61%	31%	8%
<b>3. AMH/N0303 Maintain work area, tools and machines</b>						
	PC1. handle materials, machinery, equipment and tools with care and use them in the correct way	50	4	1	2	1
	PC2. use correct lifting and handling procedures		4	1	2	1
	PC3. use materials to minimize waste		3	1	1	1
	PC4. maintain a clean and hazard free working area		3	1	1	1
	PC5. maintain tools and equipment		4	2	1	1
	PC6. carry out running maintenance within agreed schedules		4	1	2	1
	PC7. carry out maintenance and/or cleaning within one's responsibility		4	1	2	1
	PC8. report unsafe equipment and other dangerous occurrences		4	1	2	1
	PC9. ensure that the correct machine guards are in place		3	1	1	1
	PC10. work in a comfortable position with the correct posture		3	1	1	1
	PC11. use cleaning equipment and methods appropriate for the work to be carried out		3	1	1	1
	PC12. dispose of waste safely in		4	1	2	1

### Assessment Criteria

	the designated location					
	PC13. store cleaning equipment safely after use		3	1	1	1
	PC14. carry out cleaning according to schedules and limits of responsibility		4	1	2	1
			50	15	21	14
	<b>Total</b>	<b>Weight age %</b>		<b>30%</b>	<b>42%</b>	<b>28%</b>
<b>4. TSC/ N9002 Working in a team</b>	PC1. be accountable to the own role in whole process		5	3	1	1
	PC2. perform all roles with full responsibility		4	2	1	1
	PC3. be effective and efficient at workplace		4	1	2	1
	PC4. properly communicate about company policies		4	1	1	2
	PC5. report all problems faced during the process		4	1	1	2
	PC6. talk politely with other team members and colleagues		4	1	1	2
	PC7. submit daily report of own performance		5	2	2	1
	PC8. Adjust in different work situations	50	4	2	1	1
	PC9. Give due importance to others' point of view					
	PC10. avoid conflicting situations					
	PC9. give due importance to others' point of view		4	1	1	2
	PC10. avoid conflicting situations		4	1	2	1
	PC11. develop new ideas for work procedures		4	1	2	1
	PC12. improve upon the existing techniques to increase process efficiency		4	1	2	1
			50	17	17	16
	<b>Total</b>	<b>Weight age %</b>		<b>34%</b>	<b>34%</b>	<b>32%</b>
<b>5. AMH/N0304 Maintain</b>	PC1. Comply with health and safety related instructions applicable to the workplace	<b>100</b>	5	2	2	1

### Assessment Criteria

<b>health, safety and security at workplace</b>	PC2. Use and maintain personal protective equipment as per protocol	5	2	2	1
	PC3. Carry out own activities in line with approved guidelines and procedures	4	2	1	1
	PC4. Maintain a healthy lifestyle and guard against dependency on intoxicants	4	2	1	1
	PC5. Follow environment management system related procedures	4	2	1	1
	PC6. Identify and correct (if possible) malfunctions in machinery and equipment	5	2	2	1
	PC7. Report any service malfunctions that cannot be rectified	4	2	1	1
	PC8. Store materials and equipment in line with manufacturer's and organizational requirements	4	1	2	1
	PC9. Safely handle and move waste and debris	4	1	2	1
	PC10. Minimize health and safety risks to self and others due to own actions	5	2	2	1
	PC11. Seek clarifications, from supervisors or other authorized personnel in case of perceived risks	4	2	0	2
	PC12. Monitor the workplace and work processes for potential risks and threats	5	2	2	1
	PC13. Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned	5	2	2	1
	PC14. Report hazards and potential risks/ threats to supervisors or other authorized personnel	4	1	2	1
	PC15. Participate in mock drills/ evacuation procedures organized at the workplace	4	2	2	0

### Assessment Criteria

	PC16. Undertake first aid, fire-fighting and emergency response training, if asked to do so		5	2	2	1
	PC17. Take action based on instructions in the event of fire, emergencies or accidents		5	2	2	1
	PC18. Follow organization procedures for shutdown and evacuation when required		4	2	1	1
	PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry		4	2	1	1
	PC20. recognize other possible security issues existing in the workplace		4	2	1	1
	PC21. recognize different measures to curb the hazards		4	2	1	1
	PC22. communicate the safety plan to everyone		4	2	1	1
	PC23. attach disciplinary rules with the implementation		4	2	1	1
			<b>100</b>	<b>43</b>	<b>34</b>	<b>23</b>
	<b>Total</b>	<b>Weight age %</b>		<b>43%</b>	<b>34%</b>	<b>23%</b>
<b>6. AMH/N0305 Comply with industry and organizational requirements</b>						
	PC1. perform own duties effectively		4	1	2	1
	PC2. take responsibility for own actions		4	1	2	1
	PC3. be accountable towards the job role and assigned duties		4	2	1	1
	PC4. take initiative and innovate the existing methods		3	1	1	1
	PC5. focus on self-learning and improvement	<b>50</b>	4	1	2	1
	PC6. co-ordinate with all the team members and colleagues		4	1	2	1
	PC7. communicate politely		4	1	1	2
	PC8. avoid conflicts and miscommunication		4	1	2	1
	PC9. know the organizational standards		4	2	1	1
	PC10. implement them in your		4	1	2	1



**Assessment Criteria**

	performance					
	PC11. motivate others to follow them		3	1	1	1
	PC12. know the industry standards		4	3	1	0
	PC13. align them with organization standards		4	2	1	1
			50	18	19	13
	<b>Total</b>	<b>Weihtage %</b>		36%	38%	26%
	<b>Total</b>		650	325	215	110
<b>Grand Total</b>			<b>650</b>			