

## 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 – Fitter-Ring Spinning

**SECTOR:** TEXTILE

**SUB-SECTOR:** SPINNING

**OCCUPATION:** MAINTENANCE

**REFERENCE ID:** TSC/Q 0402

**ALIGNED TO:** NCO-2004 / 7233.46

**Brief Job Description:** The ring spinning fitter is responsible for carrying out all the maintenance activities in a ring spinning machine. He/she should be able to carry out all the maintenance activities such as erecting, dismantling, assembling, leveling, attending & resolving repairs and breakdowns in a ring spinning machine. The fitter should also carry out regular maintenance activities thus ensuring proper functioning of the machines.

**Personal Attributes:** This job requires the individual to have thorough knowledge of process flow and material flow in a spinning mill for yarn production and should have sound technical knowledge on erecting the different sequence of machines in ring spinning machine.

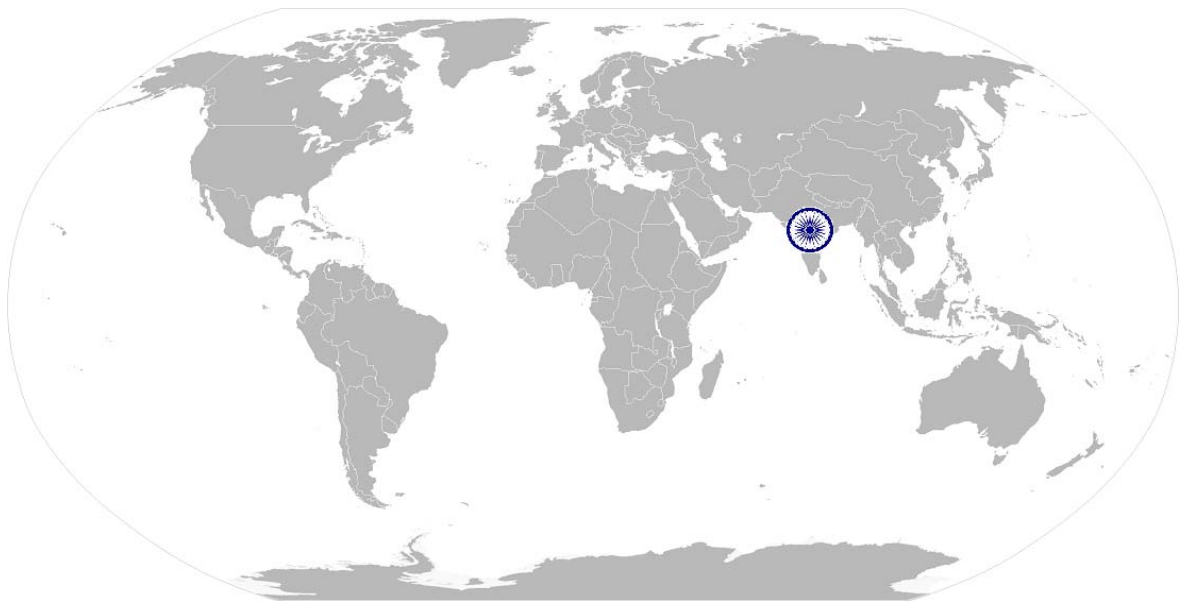
Job Details	Qualifications Pack Code	TSC/Q 0402		
	Job Role	Fitter- Ring Spinning		
	Credits (NSQF)	TBD	Version number	1.0
	Sector	Textile	Drafted on	15/12/14
	Sub-sector	Spinning	Last reviewed on	25/02/15
	Occupation	Maintenance	Next review date	01/03/2016
	Job Role	Fitter - Ring Spinning		
Role Description		The ring spinning fitter is responsible for carrying out all maintenance activities in ring spinning machine.		
NSQF level		5		
Minimum Educational Qualifications		12 <sup>th</sup> standard, preferably		
Maximum Educational Qualifications		N/A		
Training (Suggested but not mandatory)		Practical training in erection and dismantling of ring spinning machines		
Experience		Preferably 1-2 years of work experience as maintenance assistant in a textile mill		
National Occupational Standards (NOS)		<b>Compulsory:</b> <ol style="list-style-type: none"> <li><a href="#">TSC/ N0406 Taking charge of shift and handing over shift to Fitter - Ring Spinning</a></li> <li><a href="#">TSC/N 0407 General maintenance responsibilities - Ring Spinning</a></li> <li><a href="#">TSC/N 0408 Preventive maintenance responsibilities - Ring Spinning</a></li> <li><a href="#">TSC/N 0409 Breakdown maintenance - Ring Spinning</a></li> <li><a href="#">TSC/N 0410 Maintaining records and ensuring availability of spares in ring spinning</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> <b>Optional:</b> Not Applicable		
Performance Criteria		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 Qualification Framework
NCO	National Classification of Occupations
TBD	To Be Determined
TSC	Textile Sector Skill Council
NSDC	National Skill Development Corporation

# National Occupational Standard



## Overview

This unit is about taking charge of shift from previous shift fitter-Ring Spinning and relieving the responsibilities to fitter of the next shift fitter-Ring Spinning

**TSC/ N0406 Taking charge of shift and handing over shift to Fitter - Ring Spinning**

National Occupational Standard	<b>Unit Code</b>	<b>TSC/ N0406</b>
	<b>Unit Title (Task)</b>	<b>Taking charge of shift and handing over shift to Fitter - Ring Spinning</b>
	<b>Description</b>	This unit is about taking charge of shift from previous shift fitter-Ring Spinning and relieving the responsibilities to the next shift fitter-Ring Spinning
	<b>Scope</b>	This unit/task covers the following: <ul style="list-style-type: none"> <li>Taking charge of shift from fitter-Ring Spinning</li> <li>Handing over shift to fitter-Ring Spinning</li> </ul>
	<b>Elements</b>	<b>Performance Criteria</b>
	<b>Taking charge of shift from fitter-Ring Spinning</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 to the department</p> <p>PC3. meet the previous shift fitter and 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. understand the count produced, colour coding, followed in the ring spinning machines</p> <p>PC5. patrol around the machines in spinning department and ensure the smooth functioning of all the machines in the department</p> <p>PC6. discuss with previous shift fitter regarding the issues faced in the machines if any</p> <p>PC7. ensure all the machines are running properly, for machines which are not running and problems if any should be clarified with the fitter, supervisor and operator</p> <p>PC8. check the cleanliness of work areas</p> <p>PC9. check whether any spare/raw material/ tool / yarn / any other material are thrown under the machines or in the other work areas.</p> <p>PC10. should question the previous shift maintenance people for any deviation in the above and should bring the same to the knowledge of his/ her shift superior as well as that of the previous shift.</p> <p>PC11. ensure the work spot is clean</p> <p>PC12. take over the shift from the outgoing shift's fitter in a proper manner</p>
	<b>Handing over shift to fitter-Ring Spinning</b>	<p>PC13. ensure in providing the details regarding count produced, colour coding followed for his allocated number of machines in ring spinning department</p> <p>PC14. provide all relevant information regarding the count produced, idle machines, damaged machine parts if any</p> <p>PC15. get clearance from the incoming counterpart before leaving the work spot</p> <p>PC16. report to his shift's superiors as well as the incoming shift's superiors in case his/ her counterpart doesn't report for the incoming shift</p> <p>PC17. report to his shift superior about the quality / production / maintenance issues / 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>PC18. ensure the shift has to be properly handed over to the incoming shift fitter</p> <p>PC19. report to his shift superior about the quality / production / maintenance</p>



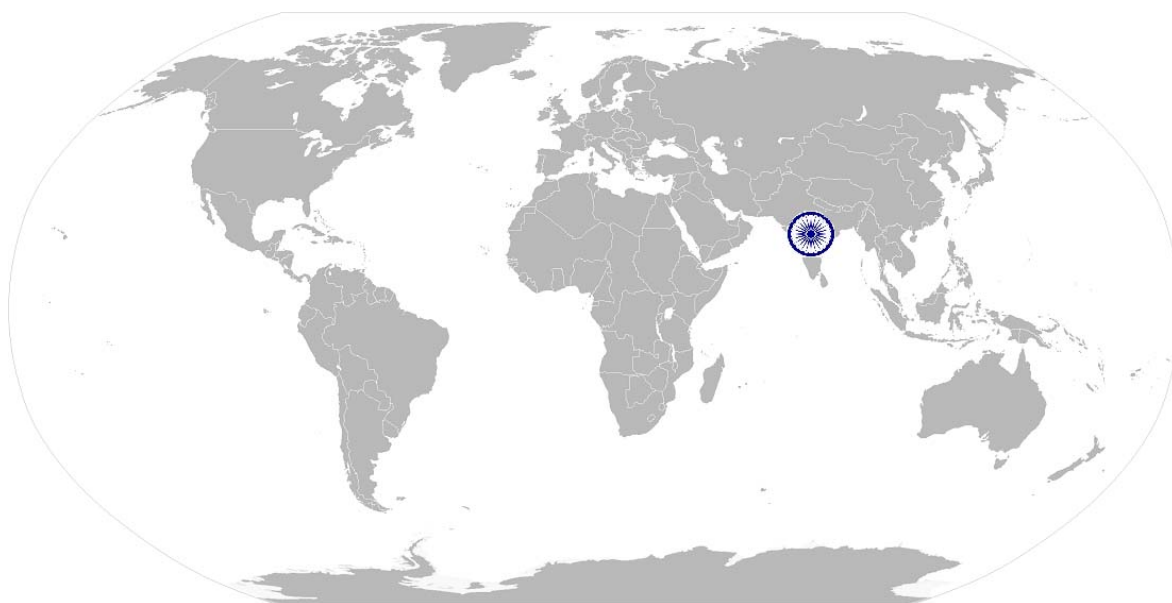
**TSC/ N0406 Taking charge of shift and handing over shift to Fitter - Ring Spinning**

	<p>issues / safety issues/ any other issue faced in his shift and should leave the department only after getting concurrence for the same from his/ her superiors</p> <p>PC20. ensure the work spot is clean</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. standard operating procedures (SOP) and regulations in a spinning / textile mill</p> <p>KA2. safe working practices to be adopted in spinning / textile mill</p> <p>KA3. quality systems and other processes practiced in the spinning / textile 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 spinning / textile mill</p>
<b>B. Technical Knowledge</b>	<p>You need to know and understand:</p> <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>• sliver hank</li> </ul> <p>KB2. process flow in a spinning / textile mill</p> <p>KB3. material flow in a spinning / textile mill</p> <p>KB4. functions of different machines in ring spinning department</p> <p>KB5. importance of colour coding followed for different counts</p> <p>KB6. guidelines for operating the ring spinning machines</p> <p>KB7. guidelines for taking charge of shift from previous shift fitter</p> <p>KB8. guidelines for handing over the shift to the next shift fitter</p> <p>KB9. functions and methodology for operating different material handling tools</p> <p>KB10. knowledge of waste collection system &amp; equipments used</p> <p>KB11. importance of cleanliness at workplace</p> <p>KB12. safety procedures to be followed</p>
<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>B. Professional Skills</b>	<b>oral communication (listening and speaking skills)</b>
	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>B. Professional Skills</b>	<b>Attention to Detail</b>
	SB4. apply good attention to detail

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**Taking charge of shift and handing over shift to Fitter - Ring Spinning**

	<p>SB5. check your work is complete and free from errors</p> <p>You need to know and understand how to:</p> <p>SB6. patrol around different machines in spinning department</p> <p>SB7. operate the different mechanisms of the ring spinning machine</p> <p>SB8. procedure for patrolling around the spinning machinery and identifying worn out or damaged machine parts</p> <p>SB9. maintain neatness at work</p>
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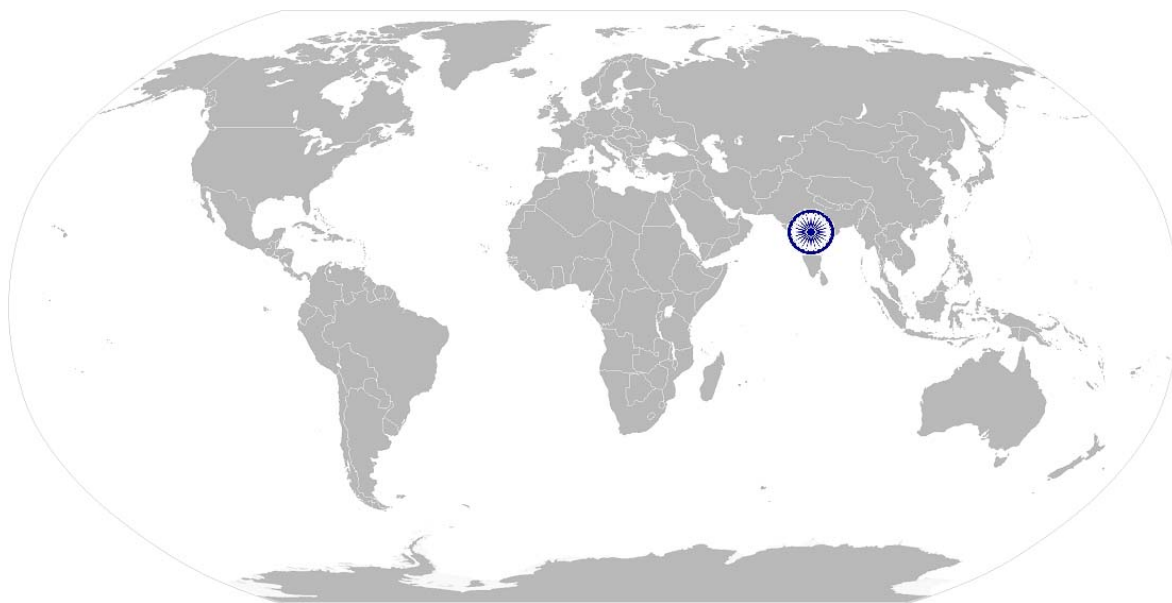




**TSC/ N0406      Taking charge of shift and handing over shift to Fitter - Ring Spinning**

**NOS Version Control**

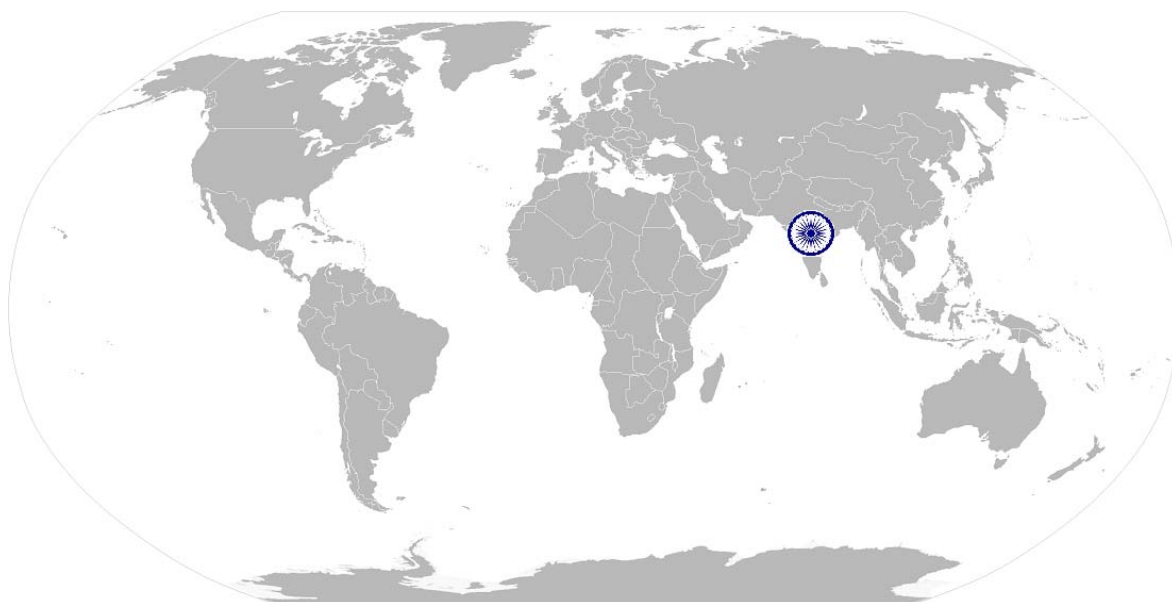
NOS Code	TSC/ N0406		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Maintenance	Next review date	01/03/2016



**TSC/N0407**

**General Maintenance Responsibilities- Ring Spinning**

# National Occupational Standard



## Overview

This unit is about carrying out general maintenance activities in spinning department.

**TSC/N0407**

**General Maintenance Responsibilities- Ring Spinning**

**National Occupational Standard**

<b>Unit Code</b>	<b>TSC/N0407</b>
<b>Unit Title (Task)</b>	<b>General Maintenance Responsibilities - Ring Spinning</b>
<b>Description</b>	This unit is about carrying out general maintenance activities in spinning department
<b>Scope</b>	This unit/task covers the following: <ul style="list-style-type: none"> <li>general maintenance activities</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Elements</b>	<b>Performance Criteria</b>
<b>General Maintenance Activities</b>	<p>To be competent , you must be able to :</p> <p>PC1. take a round of the work area before the start of the shift for observing the working</p> <p>PC2. note down the machines stopped for repairs and the type of problem</p> <p>PC3. dismantle and assemble different mechanisms in machines on need basis</p> <p>PC4. understand the quality complaints in the machines</p> <p>PC5. understand the works done till now and the works pending in the machines stopped for repairs or for maintenance works or modifications</p> <p>PC6. understand the production plan and preparing maintenance plan and allocating people for different activities</p> <p>PC7. understand the machines allotted for various counts and mixings and decide on the parameters to be checked while doing maintenance like top arm settings, spacers, cots and aprons, spindle tapes, jockey pulley alignment, rings and travelers, traveler clearer setting, etc</p> <p>PC8. allocate the workers for different tasks considering their knowledge, skills, maturity and workloads agreed</p> <p>PC9. identify any abnormal sound in running machine</p> <p>PC10. identify any damaged cops in the ring spinning department and segregate the same</p> <p>PC11. refer to process parameters and work out the changes to be made for change in hank or product mix and getting the changes made by the concerned maintenance workers.</p> <p>PC12. ensure the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers.</p> <p>PC13. counsel and influence a poor performers worker to achieve output as per norms</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company/	<p>The individual on the job needs to know and understand:</p> <p>KA1. organization's standard operating procedures (SOP)</p> <p>KA2. knowledge of customers</p> <p>KA3. potential hazards associated with the machines and the safety precautions</p>

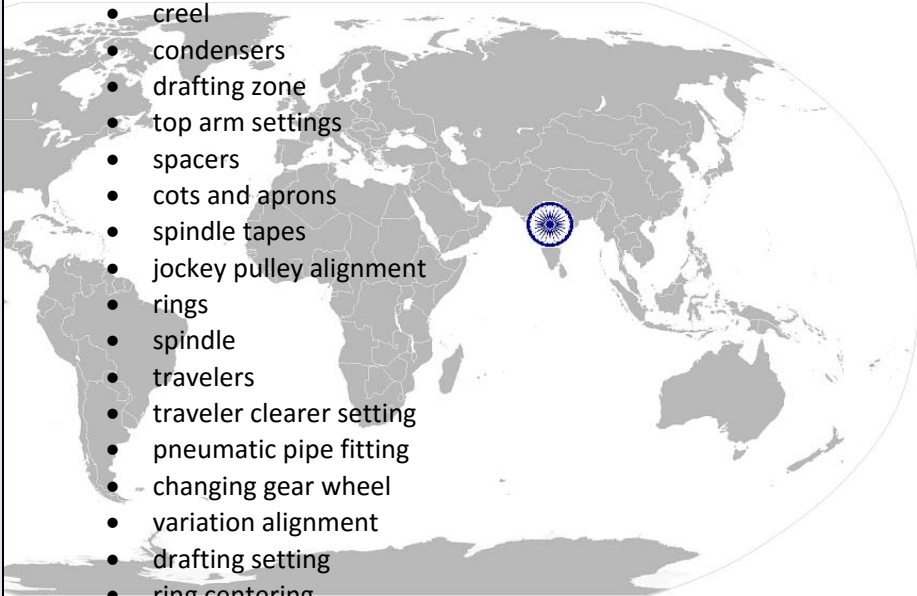
**TSC/N0407**

**General Maintenance Responsibilities- Ring Spinning**

organization and its processes)	<p>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 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&amp; 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/Domain Knowledge of product</b>	<p>The individual on the job needs to know and understand:</p> <p>KB1. process flow and material flow in spinning</p> <p>KB2. functions of ring spinning machine</p> <p>KB3. planning of maintenance activities and preparing date-wise plans for maintenance and replacement of parts considering their life</p> <p>KB4. role of humidity and temperature in maintaining quality and productivity</p> <p>KB5. basic knowledge of operating a humidification plant.</p> <p>KB6. workload, work allocation and standard working conditions for maintenance operatives.</p> <p>KB7. calculation of maintenance efficiency; time spent for maintenance, men employed, cost of maintenance, costs of spares consumption, mean time between breakdowns, and the industry norms.</p> <p>KB8. factors affecting maintenance</p> <p>KB9. roles and responsibilities of a maintenance supervisor</p> <p>KB10. basic supervisory skills – listening and observing, communicating, counseling, taking charge, reporting and motivating</p> <p>KB11. general management knowledge of managing subordinates, coordinating with workshop, electrical department, stores and production</p> <p>KB12. standing orders and discipline in working</p> <p>KB13. precautions to be taken while working</p> <p>KB14. importance of cleanliness and personal safety</p> <p>KB15. fire fighting and first aid</p> <p>KB16. safety precautions and gadgets to be used in factory</p>
<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>

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**General Maintenance Responsibilities- Ring Spinning**

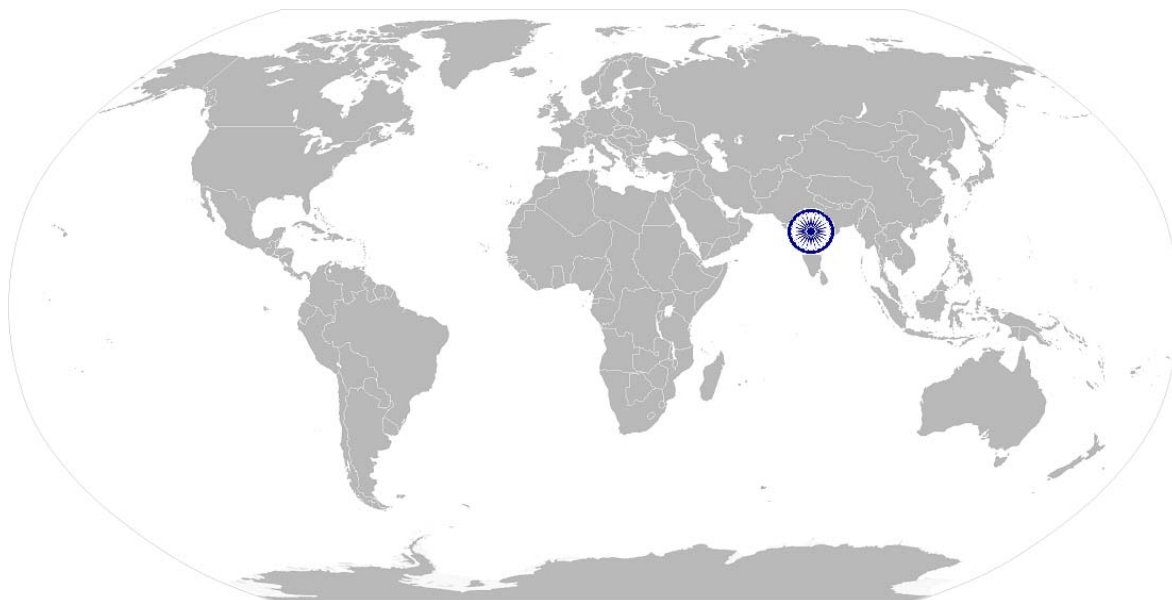
	SA2. comprehend written instructions
	<b>Participation</b>
	SA3. Read, write and communicate orally in local language
	SA4. Plan and manage work routine based on instructions from supervisor
	SA5. Should willingly participate in the various programs/ meetings that are conducted by the Superiors & put forth the suggestions in the interest of the Company
	SA6. Participate in the " Quality Circles" formed by the Superiors
	SA7. 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.
	SA8. Procedure to alter the setting of the following
	 <ul style="list-style-type: none"> <li>• creel</li> <li>• condensers</li> <li>• drafting zone</li> <li>• top arm settings</li> <li>• spacers</li> <li>• cots and aprons</li> <li>• spindle tapes</li> <li>• jockey pulley alignment</li> <li>• rings</li> <li>• spindle</li> <li>• travelers</li> <li>• traveler clearer setting</li> <li>• pneumatic pipe fitting</li> <li>• changing gear wheel</li> <li>• variation alignment</li> <li>• drafting setting</li> <li>• ring centering</li> <li>• lappet &amp; ABC setting</li> <li>• flutter roller eccentricity</li> <li>• top arm pressure checking</li> <li>• gear end service</li> <li>• piston service</li> <li>• timing belt checking</li> <li>• bobbin holder checking</li> <li>• spindle oil checking</li> <li>• lubrication</li> </ul>
	SA9. skill to change the settings of different mechanisms in ring frame
	SA10. procedure to dismantle and assemble different mechanisms in the ring frame

**TSC/N0407**

## General Maintenance Responsibilities- Ring Spinning

### NOS Version Control

NOS Code	TSC /N0407		
Credits (NSQF)	TBD	Drafted on	15/12/14
Industry	Textile	Last reviewed on	25/02/15
Industry Sub-sector	Spinning	Next review date	01/03/2016
Occupation	Maintenance	Drafted on	15/12/14

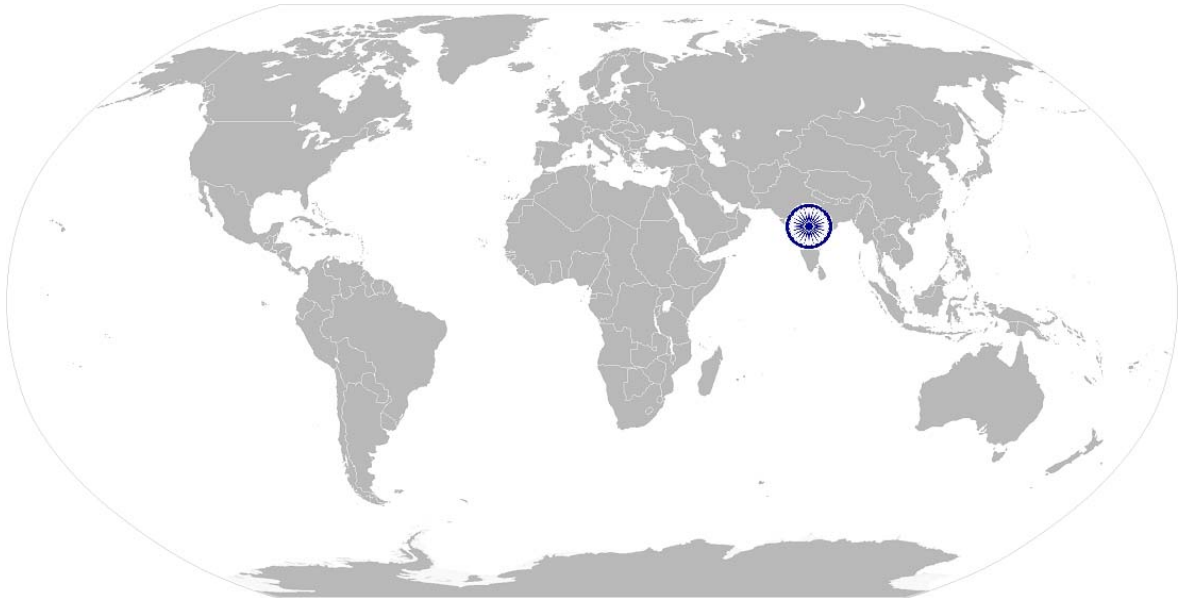




**TSC/N0408**

**Preventive maintenance responsibilities - Ring Spinning**

# National Occupational Standard



## Overview

This unit is about carrying out preventive maintenance activities in spinning department

**TSC/N0408**

**Preventive maintenance responsibilities - Ring Spinning**

Unit Code	TSC /N0408
Unit Title (Task)	Preventive maintenance responsibilities- Ring Spinning
Description	This unit is about carrying out preventive maintenance activities in ring spinning
Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> <li>Inspecting the condition of working parts</li> <li>Carrying out maintenance</li> <li>Oiling and greasing the machine parts</li> </ul>
Performance Criteria (PC) w.r.t. the Scope	
Elements	Performance Criteria
Inspecting the working condition of machine parts	<p>To be competent ,you should be able to:</p> <p>PC1. check the proper functioning of machines like ring frame and the ancillaries like trolleys, filters, roller covering and so on</p> <p>PC2. check the conditions of machine parts while they are being cleaned/scoured or overhauled</p> <p>PC3. ensure the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers</p>
Carrying out maintenance	<p>PC4. change the settings of the machines on need basis</p> <p>PC5. identify the worn out parts and get the worn-out parts replaced</p> <p>PC6. verify the safety stop motions and get them attended</p> <p>PC7. monitor the stoppages due to breakdowns ,analyze the reasons for breakdowns and take precautionary measures</p> <p>PC8. monitor the cot mounting and buffing activities</p> <p>PC9. conduct the tool audits i.e. the tools used for maintenance like spanners, top arm gauge, lubricating and flushing pumps, buffing machines, mounting machines, etc.</p>
Oiling and greasing the machine	<p>PC10. oil and grease the different machine parts at scheduled interval for smooth functioning of machines</p> <p>PC11. schedule the oiling &amp; greasing activities</p> <p>PC12. ensure correct oil and grease are taken</p> <p>PC13. ensure proper functioning of machines in preparatory department</p>
Knowledge and Understanding (K)	
<b>A. 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. organization's standard operating procedures (SOP)</p> <p>KA2. should have awareness, knowledge of customers</p> <p>KA3. potential hazards associated with the machines and the safety precautions that 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 resolving</p>

**TSC/N0408**

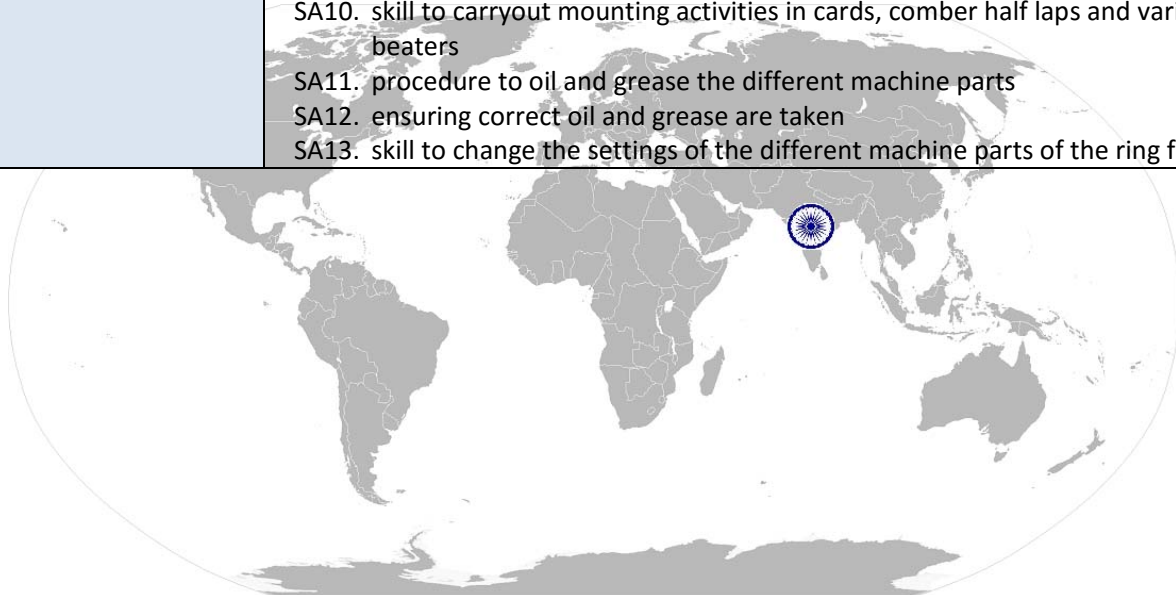
**Preventive maintenance responsibilities - Ring Spinning**

	<p>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; machine 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 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/Domain Knowledge of product</b>	<p>The individual on the job needs to know and understand:</p> <p>KB1. importance and functions of various machines and mechanisms used in ring frame machine.</p> <p>KB2. planning maintenance activities and preparing date-wise plans for maintenance and replacement of parts considering their life.</p> <p>KB3. role of humidity and temperature in maintaining quality and productivity. basic knowledge of operating a humidification plant.</p> <p>KB4. workloads, work allocation and standard working conditions for maintenance operatives.</p> <p>KB5. calculation of maintenance efficiency; time spent for maintenance, men employed, cost of maintenance, costs of spares consumption, mean time between breakdowns, and the industry norms.</p> <p>KB6. factors affecting maintenance.</p> <p>KB7. roles and responsibilities of a maintenance supervisor.</p> <p>KB8. basic supervisory skills</p> <p>KB9. importance of conducting the tool audits</p> <p>KB10. importance of oiling and greasing</p> <p>KB11. types of maintenance tools used</p> <p>KB12. general management knowledge of managing subordinates, coordinating with workshop, electrical department, stores and production.</p> <p>KB13. standing orders and discipline in working and precautions to be taken while working.</p> <p>KB14. safety precautions and gadgets to be used in factory</p>
<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>A. Core Skills/ Generic Skills</b>	<b>Participation</b>
	SA3. plan and manage work routine based on instructions from supervisor

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**Preventive maintenance responsibilities - Ring Spinning**

	<p>SA4. should willingly participate in the various programs/ meetings that are conducted by the superiors &amp; put forth the suggestions in the interest of the company</p> <p>SA5. participate in the " quality circles" that formed by the superiors</p> <p>SA6. 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" GOTSCertification "Fair Trade "etc.</p> <p>The individual on the job needs to know and understand:</p> <p>SA7. skill to check the condition of different machine parts</p> <p>SA8. procedure to replace worn-out parts</p> <p>SA9. procedure for cot mounting and buffing activities</p> <p>SA10. skill to carryout mounting activities in cards, comber half laps and various beaters</p> <p>SA11. procedure to oil and grease the different machine parts</p> <p>SA12. ensuring correct oil and grease are taken</p> <p>SA13. skill to change the settings of the different machine parts of the ring frame</p>
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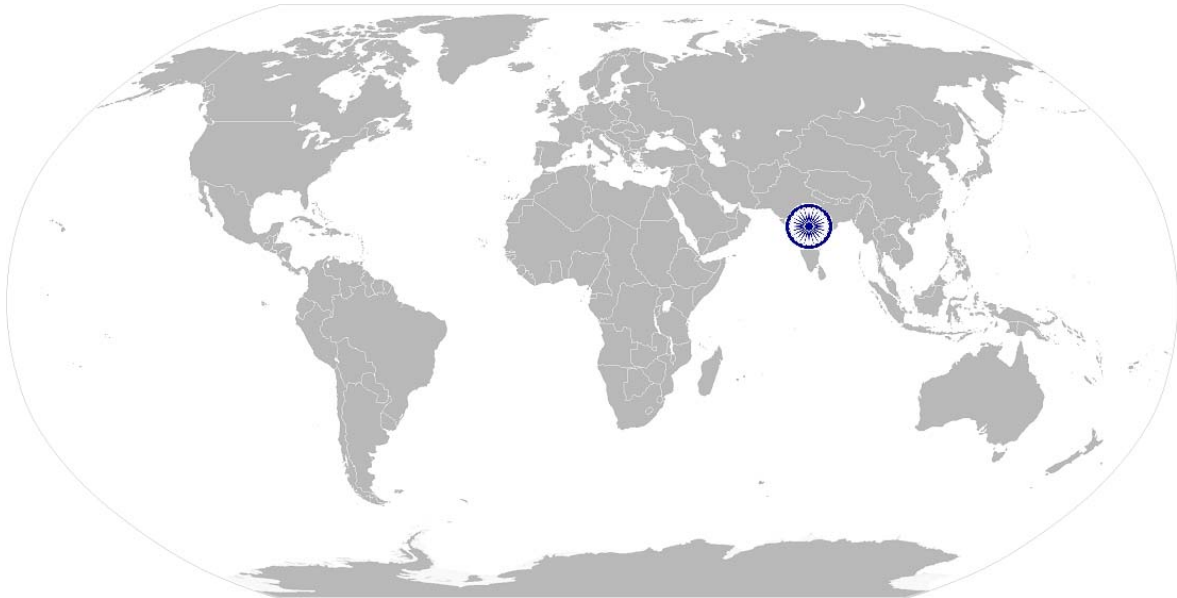


**TSC/N0408**

**Preventive maintenance responsibilities - Ring Spinning**

**NOS Version Control**

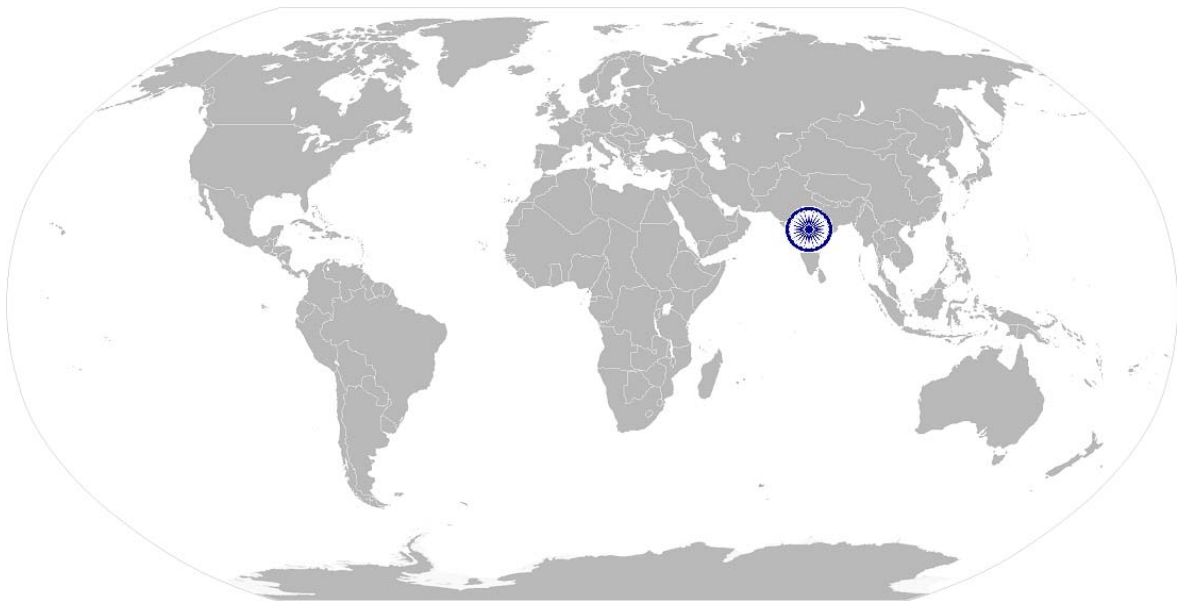
NOS Code	TSC /N0408		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Maintenance	Next review date	01/03/16



**TSC/N0409**

**Break Down Maintenance- Ring Spinning**

# National Occupational Standard



## Overview

This unit is about carrying out break down maintenance activities in spinning department



**TSC/N0409**

**Break Down Maintenance- Ring Spinning**

National Occupational Standard

Unit Code	TSC /N0409
Unit Title(Task)	Break Down Maintenance- Ring Spinning
Description	This unit is about carrying out breakdown maintenance activities in Ring spinning department in case of emergency
Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> <li>▪ Attending the machine on breakdown</li> <li>▪ Identifying the reason for breakdown and carryout maintenance activity</li> <li>▪ Post maintenance activities</li> </ul>
Performance Criteria (PC) w.r.t. the Scope	
Elements	Performance Criteria
Attending the machine on breakdown	<p>To competent, you must be able to:</p> <p>PC1. attend the machine on break down</p> <p>PC2. report to the maintenance incharge on breakdown</p> <p>PC3. preparing the machine for carrying out breakdown maintenance</p> <p>PC4. ensure in bringing the proper tool and equipments required for carrying out maintenance</p>
Identifying the reason for breakdown and carryout maintenance activity	<p>PC5. analyze the machine which is under breakdown</p> <p>PC6. identify the reason for breakdown</p> <p>PC7. carryout maintenance activities</p> <p>PC8. replace worn out parts with new parts</p> <p>PC9. ensure safety while carrying out maintenance activity</p> <p>PC10. ensure proper material handling of maintenance tools</p>
Post maintenance activities	<p>PC11. check for proper functioning of machine after maintenance</p> <p>PC12. run the machine and check for smooth functioning of machine parts</p> <p>PC13. repair further if further fine tuning is needed</p> <p>PC14. ensure the output material quality is as per quality requirement.</p> <p>PC15. ensuring the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers</p> <p>PC16. ensure minimum time is taken for attending the breakdown, identifying the reason for breakdown and carryout the breakdown maintenance activities</p>
Knowledge and Understanding (K)	
<b>A. 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. organization's standard operating procedures (SOP)</p> <p>KA2. 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>

**TSC/N0409**

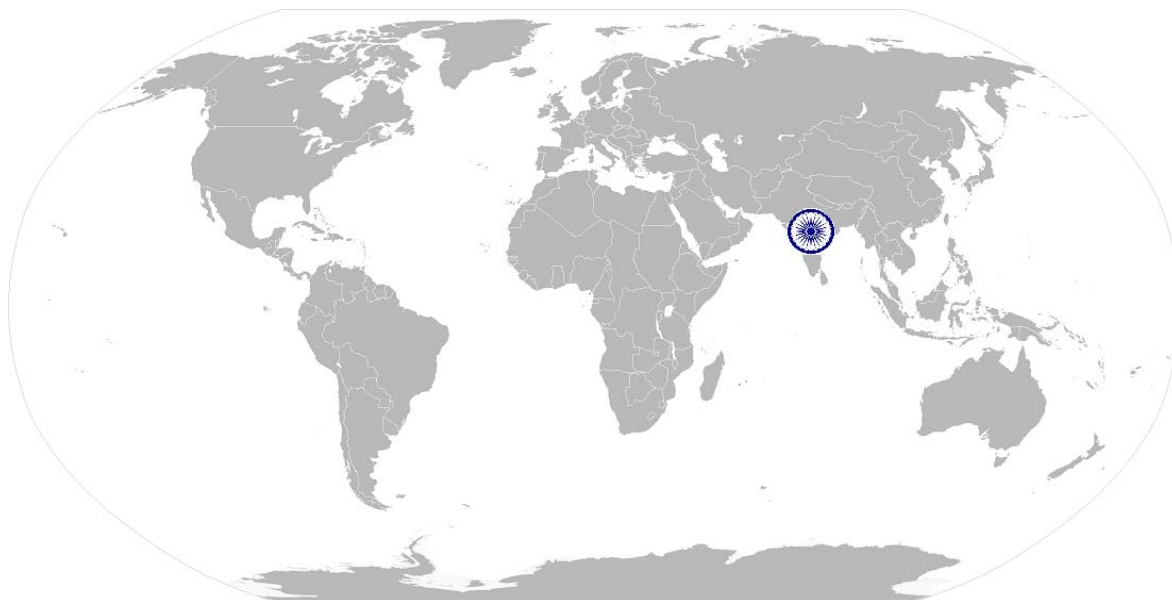
**Break Down Maintenance- Ring Spinning**

	<p>KA6. details of the various job rolls &amp; responsibilities</p> <p>KA7. documentation and reporting formats</p> <p>KA8. work targets &amp; machine 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 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/Domain Knowledge of product</b>	<p>The individual on the job needs to know and understand:</p> <p>KB1. importance and functions of various machines and mechanisms used in ring frame</p> <p>KB2. workloads, work allocation and standard working conditions for maintenance operatives.</p> <p>KB3. roles and responsibilities of a maintenance supervisor</p> <p>KB4. basic supervisory skills</p> <p>KB5. general management knowledge</p> <p>KB6. standing orders and discipline in working and precautions to be taken while working</p> <p>KB7. factors affecting maintenance</p> <p>KB8. standing orders and discipline in working and precautions to be taken while working.</p> <p>KB9. importance of time management</p> <p>KB10. safety precautions and gadgets to be used in factory</p>
<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>Participation</b>
	<p>SA3. read, write and communicate orally in local language</p> <p>SA4. plan and manage work routine based on instructions from supervisor</p> <p>SA5. participate in the various programs/ meetings that are conducted by the superiors &amp; put forth the suggestions in the interest of the company</p> <p>SA6. participate in the " Quality Circles" that formed by the superiors</p> <p>SA7. 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" GOTSCertification "Fair Trade "etc.</p>

**TSC/N0409**

**Break Down Maintenance- Ring Spinning**

	<p>You need to know and understand how to:</p> <p>SA8. skill to identify the reason for breakdown</p> <p>SA9. skill to carryout different maintenance activities</p> <p>SA10. skill of handling the different maintenance tools properly</p> <p>SA11. skill to identify that the quality of output material is as per requirement</p> <p>SA12. maintain cleanliness at work place</p>
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**TSC/N0409**

**Break Down Maintenance- Ring Spinning**

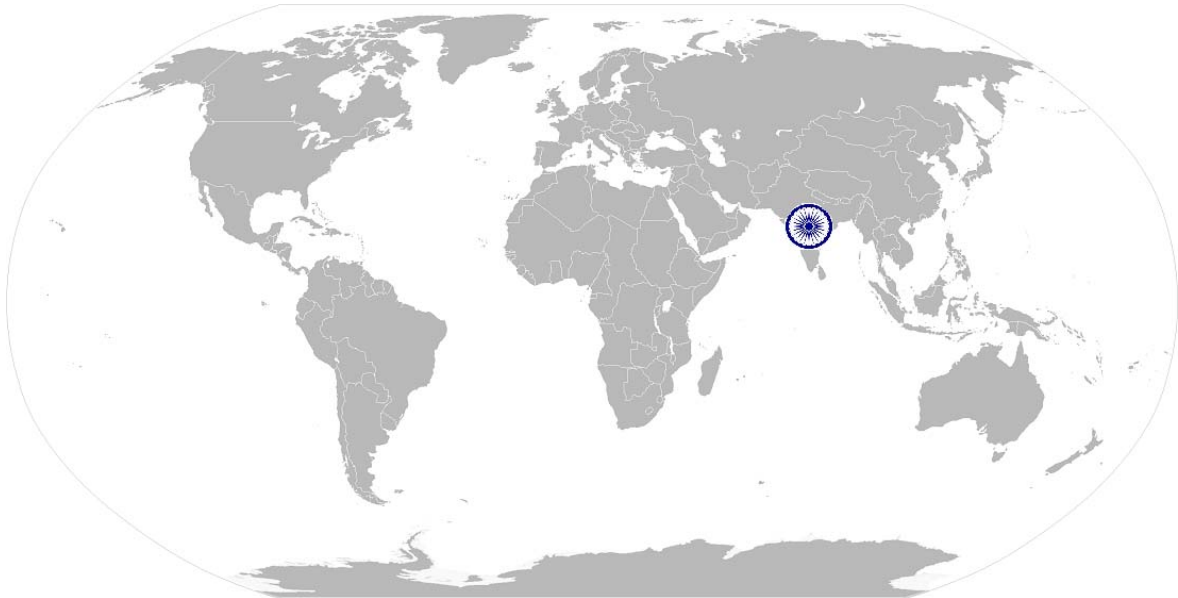
**NOS Version Control**

NOS Code	TSC /N 0409		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Maintenance	Next review date	01/03/16



**TSC/N0410    Maintaining records and ensuring availability of spares in ring spinning**

# National Occupational Standard



## Overview

This unit is about maintaining records and ensuring availability of spares

**TSC/N0410 Maintaining records and ensuring availability of spares in ring spinning**

<b>Unit Code</b>	<b>TSC/N0410</b>
<b>Unit Title (Task)</b>	<b>Maintaining records and ensuring availability of spares in ring spinning</b>
<b>Description</b>	This unit is about carrying out maintaining record of maintenance activities in ring spinning machine
<b>Scope</b>	This unit/task covers the following: <ul style="list-style-type: none"> <li>Maintaining records and ensuring availability of spares</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Elements</b>	<b>Performance Criteria</b>
Maintaining records and ensuring availability of spares	<p>To competent you must be able to :</p> <p>PC1. carryout maintenance auditing</p> <p>PC2. record the activities in the log book (report book) and update the machine history book</p> <p>PC3. verify the stock of various spares, accessories and lubricants and work out the indenting plan and placing indents.</p> <p>PC4. refer the machinery catalogues and identify the correct spares needed.</p> <p>PC5. check quality of materials received at stores, for e.g. bearings, wheels, arbours, machine spares, belts, brushes, spanners and other tools, etc.</p> <p>PC6. carry out maintenance machine audit</p> <p>PC7. maintain the records of maintenance</p> <p>PC8. ensuring availability of spares and giving requisitions on need basis</p>
<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. organization's standard operating procedures (SOP)</p> <p>KA2. 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; machine 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 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</b>	<p>The individual on the job needs to know and understand:</p> <p>KB1. planning maintenance activities and preparing date-wise plans for</p>



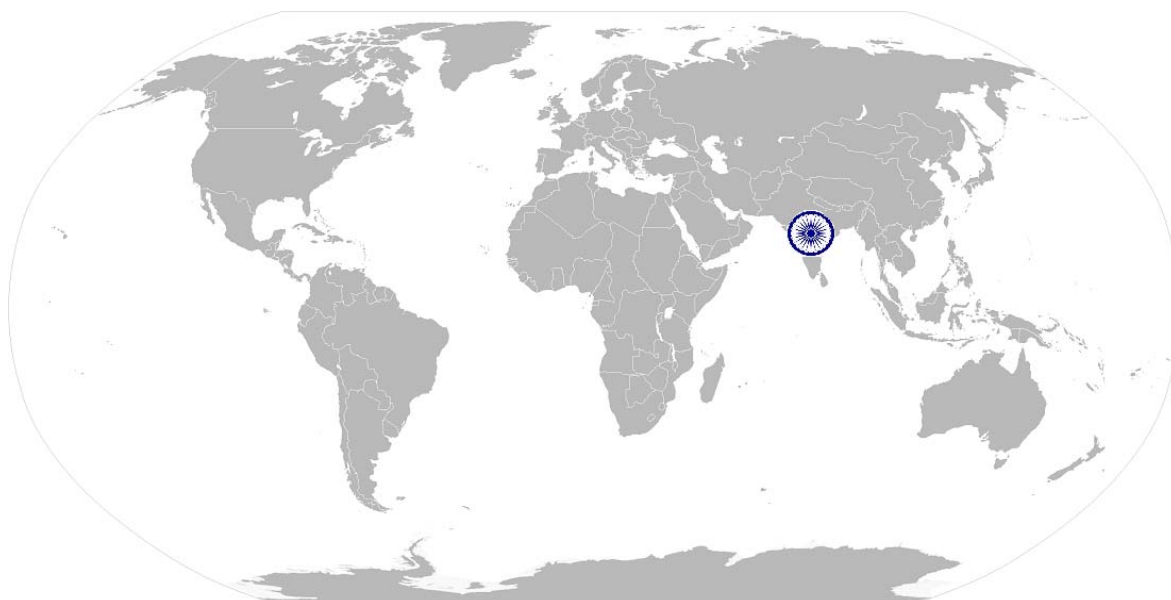
**TSC/N0410 Maintaining records and ensuring availability of spares in ring spinning**

<b>product</b>	<p>maintenance and replacement of parts considering their life.</p> <p>KB2. types and functions of different spares in ring frame</p> <p>KB3. calculation of maintenance efficiency; time spent for maintenance, men employed, cost of maintenance, costs of spares consumption, mean time between breakdowns, and the industry norms</p> <p>KB4. roles and responsibilities of a maintenance supervisor</p> <p>KB5. general management knowledge of managing subordinates, coordinating with workshop, electrical department, stores and production.</p> <p>KB6. standing orders and maintaining discipline at work</p>
<b>Skills (S)</b>	
<b>B. 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>Participation</b>
	<p>SA3. read, write and communicate orally in local language</p> <p>SA4. plan and manage work routine based on instructions from supervisor</p> <p>SA5. participate in the various programs/meetings that are conducted by the superiors &amp; put forth the suggestions in the interest of the company</p> <p>SA6. participate in the "quality circles" formed by the superiors</p> <p>SA7. 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.</p>
	You need to know and understand how to:
	SA8. carryout maintenance auditing
	SA9. verify the quality of different spares used

**TSC/N0410 Maintaining records and ensuring availability of spares in ring spinning**

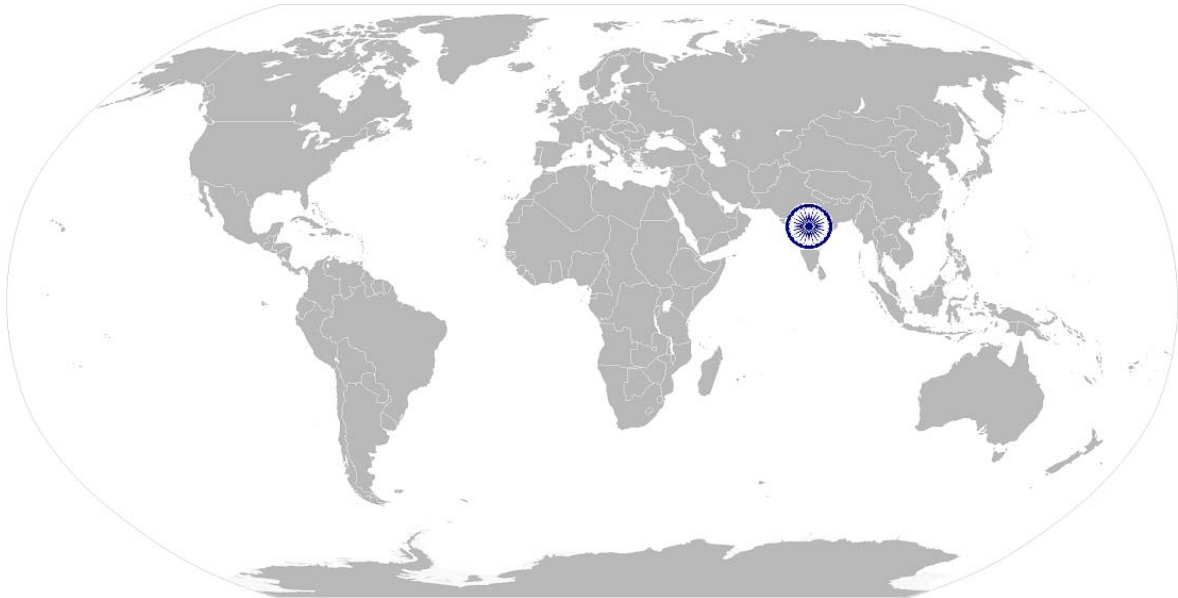
**NOS Version Control**

NOS Code	TSC/N 0410		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Maintenance	Next review date	01/03/16



**TSC/N0410    Maintaining records and ensuring availability of spares in ring spinning**

# National Occupational Standard



## Overview

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

**TSC /N 9001**

**Maintain work area, tools and machines**

National Occupational Standard

<b>Unit Code</b>	<b>TSC/ N9001</b>
<b>Unit Title (Task)</b>	<b>Maintain 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. personal hygiene and duty of care</p> <p>KA2. safe working practices and organizational standard operating procedures</p> <p>KA3. limits of your own responsibility</p> <p>KA4. ways of resolving with problems within the work area</p> <p>KA5. the production process and the specific work activities that relate to the whole process</p> <p>KA6. the importance of effective communication with supervisors</p> <p>KA7. the lines of communication, authority and reporting procedures</p> <p>KA8. the organization's rules, codes and guidelines (including timekeeping)</p> <p>KA9. the company's quality standards</p> <p>KA10. the importance of complying with written instructions</p> <p>KA11. 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>

**TSC /N 9001**

**Maintain work area, tools and machines**

	<p>KB3. hazards likely to be encountered when conducting routine maintenance</p> <p>KB4. the importance of taking action when problems are identified</p> <p>KB5. different ways of minimizing waste</p> <p>KB6. the importance of running maintenance and regular cleaning</p> <p>KB7. effects of contamination on products i.e. machine oil, dirt, foreign materials</p> <p>KB8. common faults with equipment and the method to rectify</p> <p>KB9. maintenance procedures</p> <p>KB10. different types of cleaning equipment and substances and their use</p> <p>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>	<b>Reading Skills</b>
	You need to know and understand how to:
	SA1. comprehend written instructions
	SA2. read any application sent by other colleagues
	<b>Oral Communication (Listening and Speaking skills)</b>
	You need to know and understand how to:
	SA3. Communicate effectively in local language
	SA4. communicate with supervisor appropriately
<b>B. Professional Skills</b>	SA5. 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>
	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 :
	SB8. communicate effectively
	SB9. apply leadership skills wherever required
	SB10. take initiative at the right place
	SB11. understand the requirement to be creative

**TSC /N 9001**

**Maintain work area, tools and machines**

**NOS Version Control**

NOS Code	TSC/ N9001		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Maintenance	Next review date	01/03/16

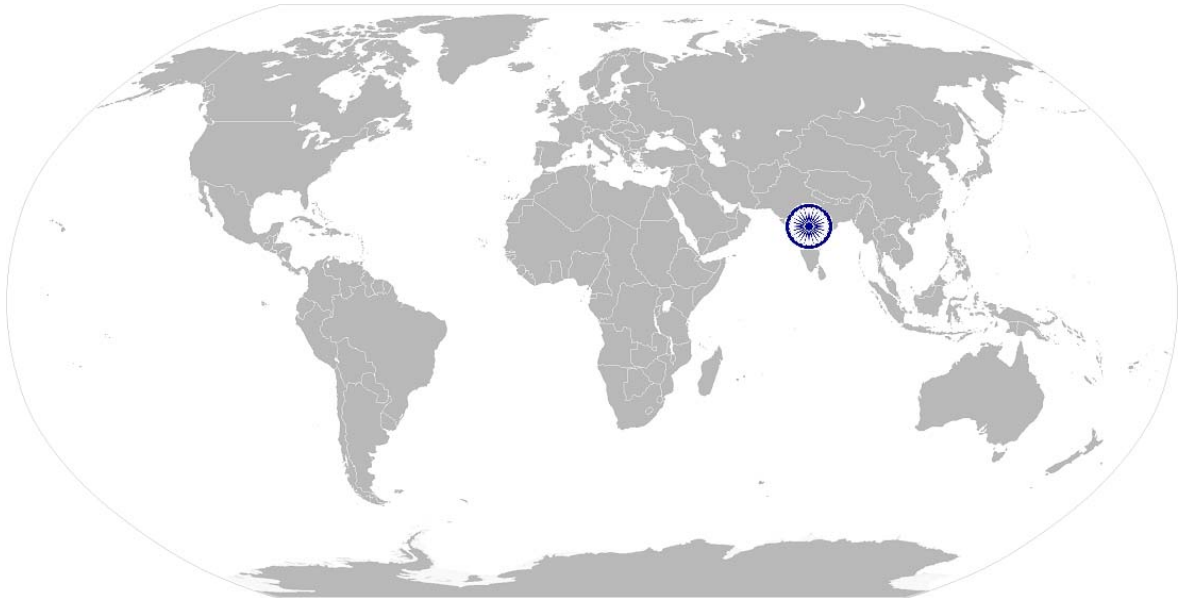




TSC/ N9002

Working in a team

# National Occupational Standard



## Overview

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

**TSC/ N9002**

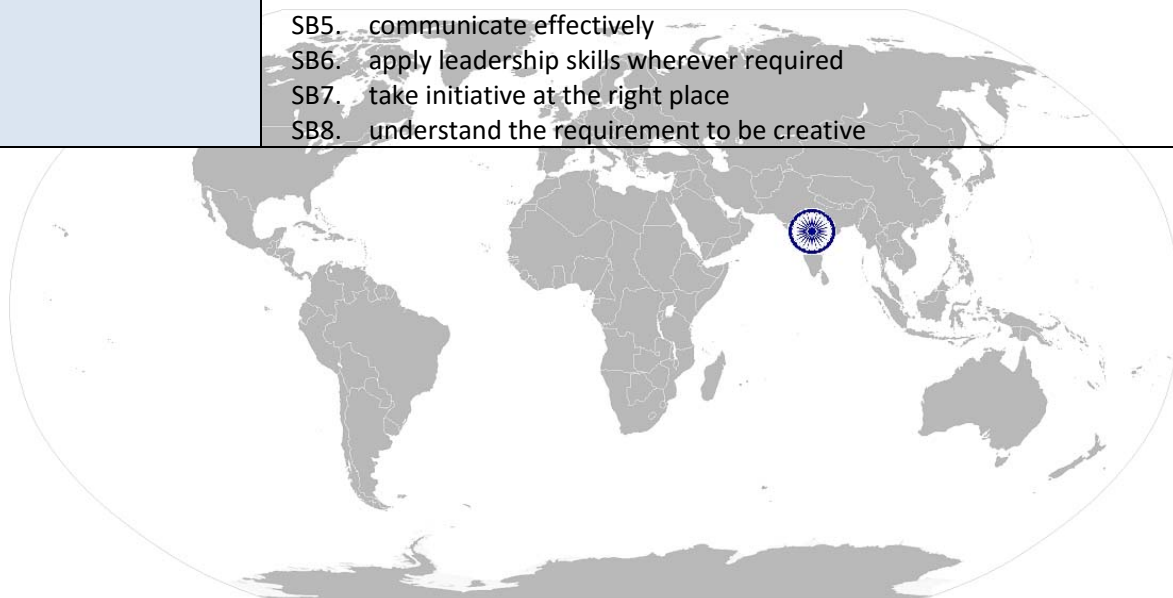
**Working in a team**

<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>This unit/task covers the following:</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>

**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
	<b>Attention to Detail</b>
	SB3. apply good attention to detail SB4. ensure every kind of communication is error free You need to know and understand how to: SB5. communicate effectively SB6. apply leadership skills wherever required SB7. take initiative at the right place SB8. understand the requirement to be creative

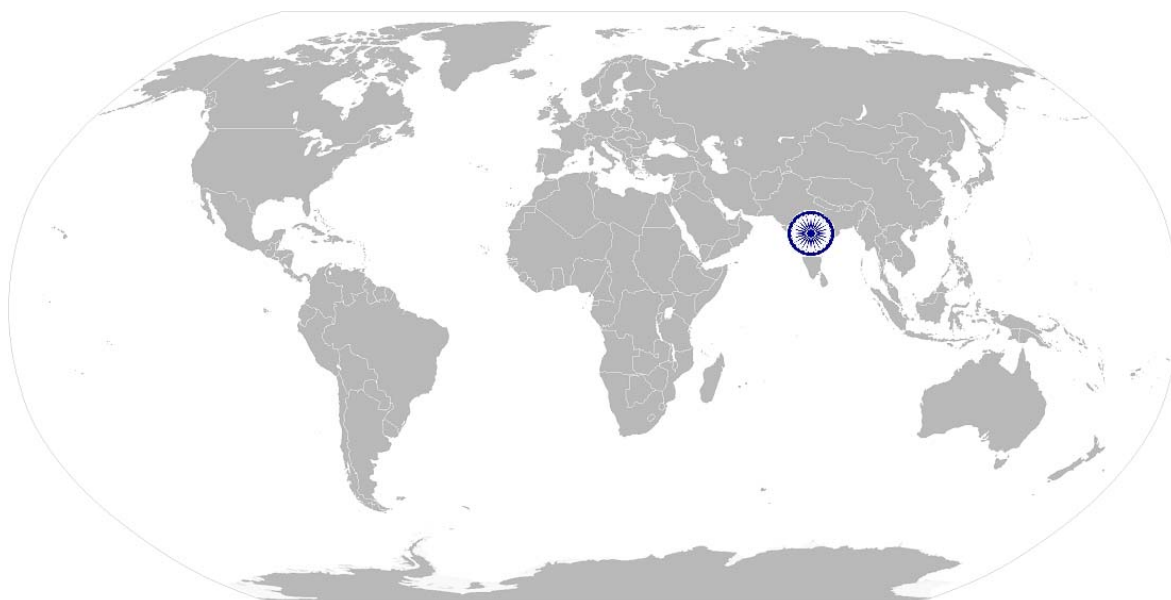


**TSC/ N9002**

**Working in a team**

**NOS Version Control**

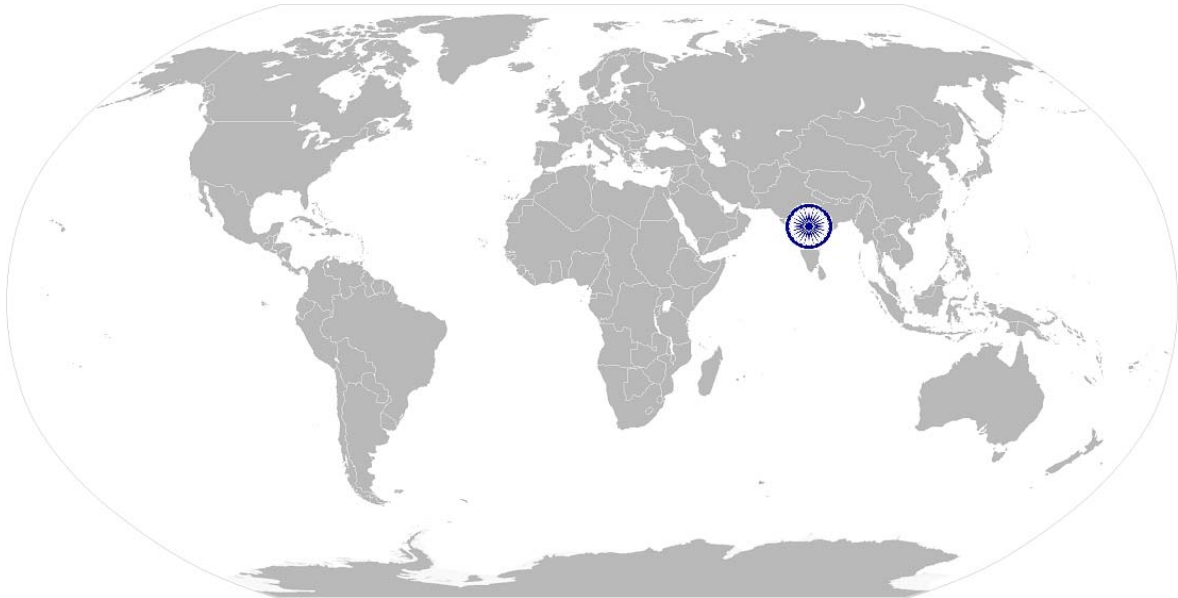
NOS Code	TSC/ N9002		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Maintenance	Next review date	01/03/16



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**

Unit Code	TSC/ N9003
Unit Title (Task)	Maintain health, safety and security at work place
Description	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.
Scope	<b>This unit/task covers the following:</b> <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>
Performance Criteria (PC) w.r.t. the Scope	
Elements	Performance Criteria
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>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>
Planning the safety	PC21. recognise different measures to curb the hazards



## TSC/ N9003

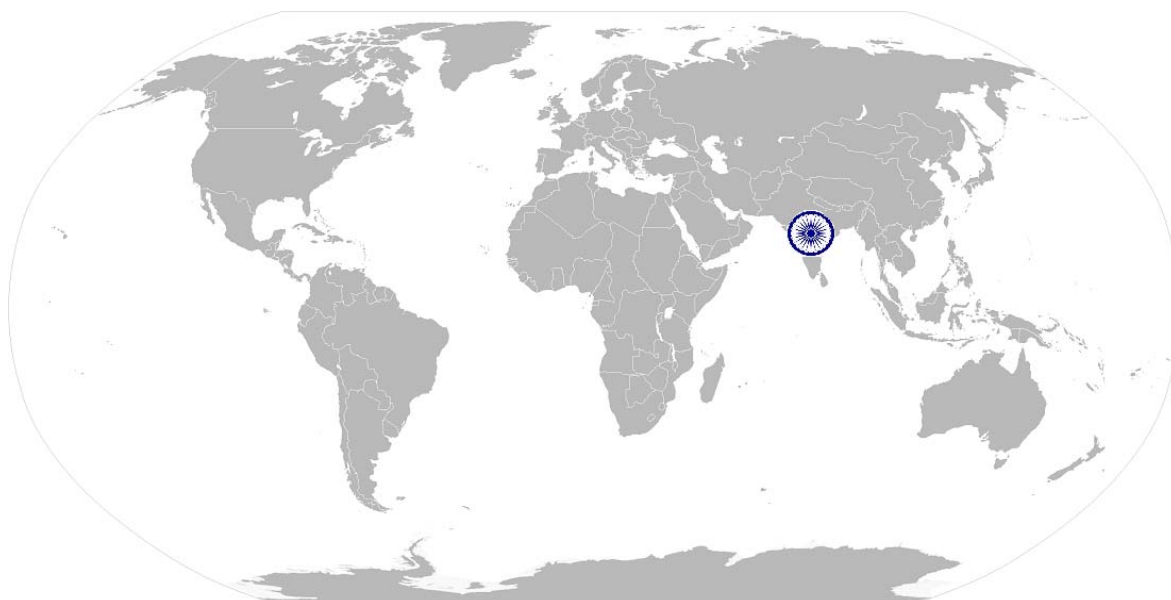
## Maintain health, safety and security at work place

techniques	
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)	<p>You need to know and understand:</p> <ul style="list-style-type: none"> <li>KA1. standard operating procedures (SOP) and regulations in a spinning mill</li> <li>KA2. safe working practices to be adopted in spinning mill</li> <li>KA3. quality systems and other processes practiced in the spinning mill</li> <li>KA4. health and safety related practices applicable at the workplace</li> <li>KA5. potential hazards, risks and threats based on nature of operations</li> <li>KA6. organizational procedures for safe handling of equipment and machine operations</li> <li>KA7. potential risks due to own actions and methods to minimize these</li> <li>KA8. environmental management system related procedures at the workplace</li> <li>KA9. layout of the plant and details of emergency exits, escape routes, emergency equipment and assembly points</li> <li>KA10. potential accidents and emergencies and response to these scenarios</li> <li>KA11. reporting protocol and documentation required</li> <li>KA12. details of personnel trained in first aid, fire-fighting and emergency response</li> <li>KA13. actions to take in the event of a mock drills/ evacuation procedures or actual accident, emergency or fire</li> </ul>
<b>B. Technical Knowledge</b>	<p>You need to know and understand:</p> <ul style="list-style-type: none"> <li>KB1. occupational health and safety risks and methods</li> <li>KB2. personal protective equipment and method of use</li> <li>KB3. identification, handling and storage of hazardous substances</li> <li>KB4. proper disposal system for waste and by-products</li> <li>KB5. signage related to health and safety and their meaning</li> <li>KB6. importance of sound health, hygiene and good habits</li> <li>KB7. ill-effects of alcohol, tobacco and drugs</li> </ul>
<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> <ul style="list-style-type: none"> <li>SA1. write clear and short sentences</li> </ul>
	<b>Reading Skills</b>
	<p>You need to know how to:</p> <ul style="list-style-type: none"> <li>SA2. read and understand the company instructions</li> <li>SA3. read and understand the local language</li> <li>SA4. read and understand the safety guidelines</li> </ul>
	<b>Oral Communication (Listening and Speaking skills)</b>
	<ul style="list-style-type: none"> <li>SA1. listen to others attentively</li> <li>SA2. respond to emergencies, accidents or fire at the workplace</li> <li>SA3. evacuate the premises and help others in need while doing so</li> <li>SA4. the value of physical fitness, personal hygiene and good habits</li> <li>SA5. talk with others politely</li> </ul>
<b>B. Professional Skills</b>	<b>Decision Making</b>

**TSC/ N9003**

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

	SB1. identify correct safety measure for particular hazard
	SB2. make required safety plans as and when required
	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
	You need to know and understand how to:
	SB7. maintain neatness at work
	SB8. procedure for reporting unwanted behavior

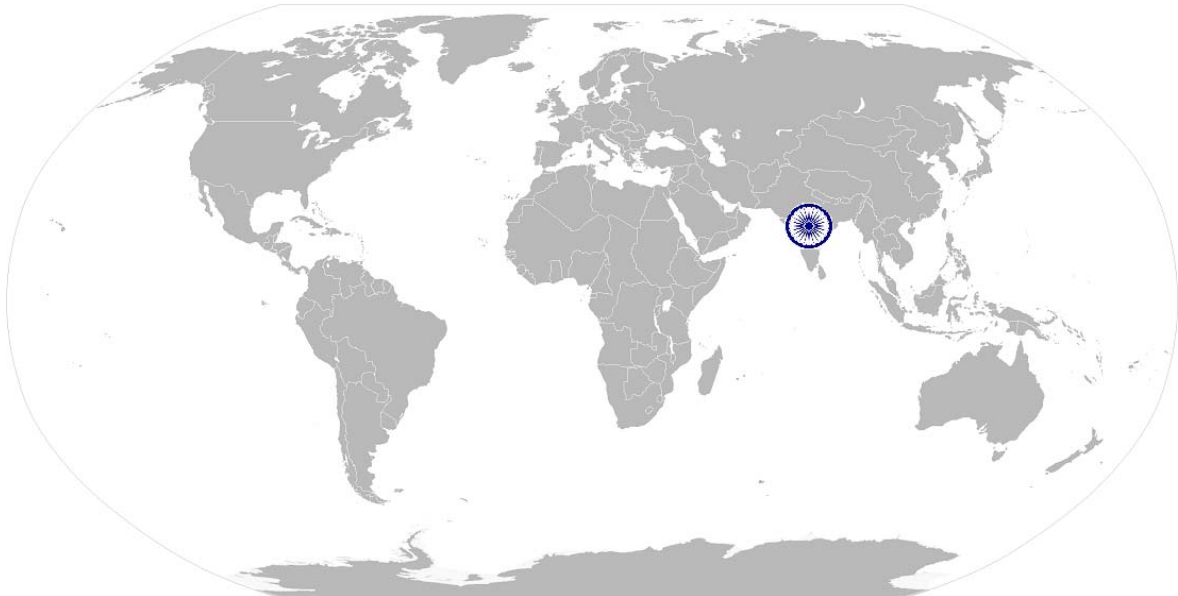


**TSC/ N9003**

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

**NOS Version Control**

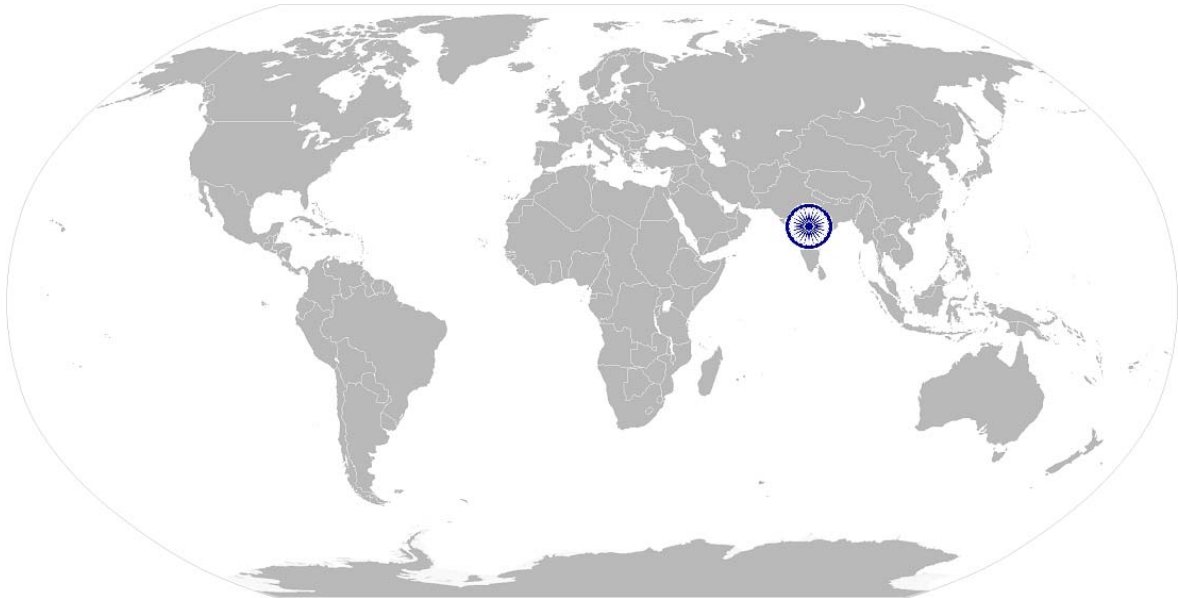
NOS Code	TSC/ N9003		
Credits (NSQF)	TBD	Version number	1.0
Industry	Textile	Drafted on	15/12/14
Industry Sub-sector	Spinning	Last reviewed on	25/02/15
Occupation	Maintenance	Next review date	01/03/16



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

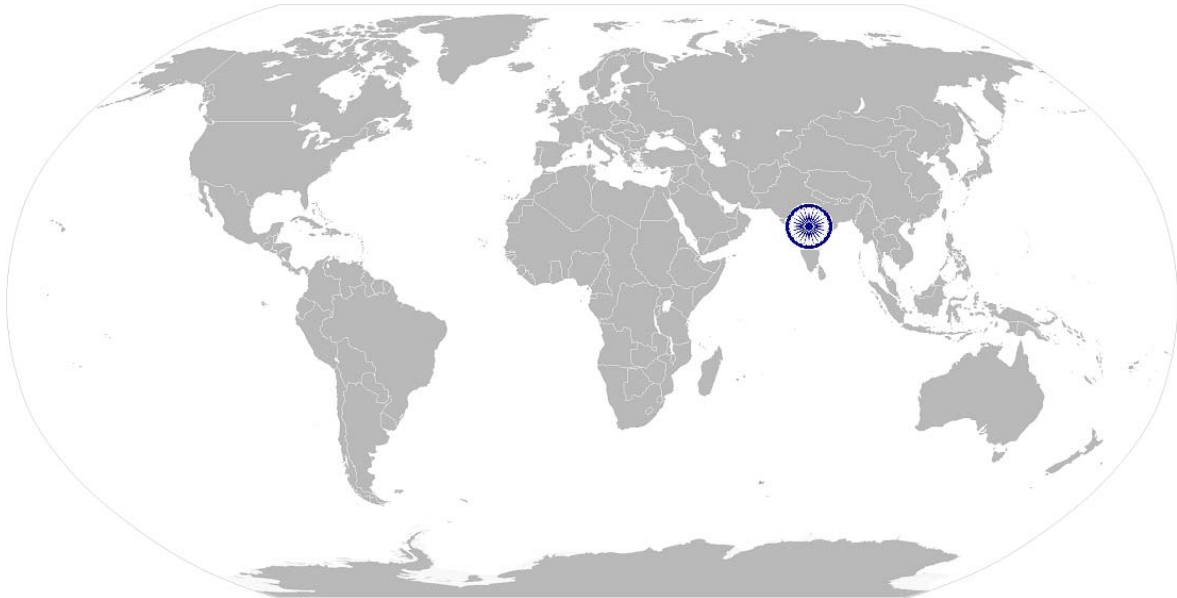
**TSC/ N9004 Comply with industry and organizational requirements**

National Occupational Standard	<b>Unit Code</b>	<b>TSC/ N9004</b>
	<b>Unit Title (Task)</b>	<b>Comply with industry and organizational requirements</b>
	<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>
	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
		<b>Reading Skills</b>

**TSC/ N9004**

**Comply with industry and organizational requirements**

	You need to know and understand how to:
	SA2. read the given instructions
	SA3. comprehend written instructions
	<b>Oral Communication (Listening and Speaking skills)</b>
	SA4. talk effectively with others
	SA5. put forward your point
	SA6. listen to others
	you need to know and understand :
	SA7. Organizational requirements
	SA8. your responsibilities at the workplace
	SA9. procedure to comply with the industry standards

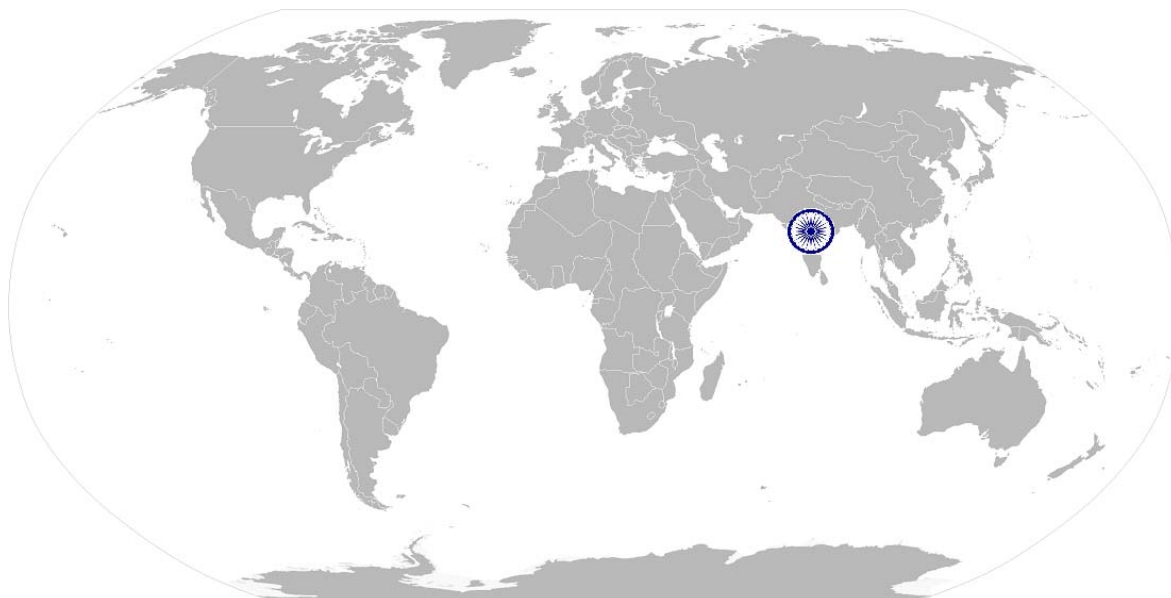




**TSC/ N9004**      **Comply with industry and organizational requirements**

**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	Spinning	Last reviewed on	25/02/15
Occupation	Maintenance	Next review date	01/03/16



### Assessment criteria

<b>Job Role: Fitter-Ring Spinning</b> <b>Qualification Pack: Fitter-Ring Spinning (TSC/Q 0402)</b> <b>Sector Skill Council: Textile Sector Skill Council</b>						
<p>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 &amp; skill practical for each PC.</p> <p>2. The assessment for the theory part will be based on knowledge bank of question created by the SSC.</p> <p>3. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre (as per assessment criteria below).</p> <p>4. To pass the qualification pack, every trainee should score a minimum of 80%.</p>						
National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
<b>1.TSC/N0406 (Taking charge of shift and handing over shift to Fitter - Ring Spinning)</b>	PC1. come at least 10 - 15 minutes earlier to the work spot	<b>100</b>	4	1	2	1
	PC2. bring the necessary operational tools to the department		5	1	2	2
	PC3. meet the previous shift fitter and discuss with him/ her regarding the issues faced by them with respect to the quality, production, spare, safety or any other specific instruction etc.		6	2	2	2
	PC4. understand the count produced, colour coding, followed in the ring spinning machines		6	2	2	2
	PC5. patrol around the machines in spinning department and ensure the smooth functioning of all the machines in the department		6	2	3	1
	PC6. discuss with previous shift fitter regarding the issues faced in the machines if any		6	2	3	1
	PC7. ensure all the machines are running properly, for machines which are not running and problems if any should be clarified with the fitter, supervisor and		6	2	3	1

### Assessment criteria

	operator				
	PC8. check the cleanliness of work areas	4	1	2	1
	PC9. check whether any spare/raw material/ tool / yarn / any other material are thrown under the machines or in the other work areas.	6	1	3	2
	PC10. should question the previous shift maintenance people for any deviation in the above and should bring the same to the knowledge of his/ her shift superior as well as that of the previous shift.	5	1	1	3
	PC11. ensure the work spot is clean	4	1	2	1
	PC12. take over the shift from the outgoing shift's fitter in a proper manner	5	2	2	1
	PC13. ensure in providing the details regarding count produced, colour coding followed for his allocated number of machines in ring spinning department	6	1	2	3
	PC14. provide all relevant information regarding the count produced, idle machines, damaged machine parts if any	6	1	2	3
	PC15. get clearance from the incoming counterpart before leaving the work spot	5	1	2	2
	PC16. report to his shift's superiors as well as the incoming shift's superiors in case his/ her counterpart doesn't report for the incoming shift	5	1	2	2
	PC17. report to his shift superior about the quality / production / maintenance issues / 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	5	1	2	2
	PC18. ensure the shift has to be properly handed over to the incoming shift fitter	4	2	1	1
	PC19. report to his shift superior about the quality / production / maintenance	2	0	0	2

### Assessment criteria

	issues / safety issues/ any other issue faced in his shift and should leave the department only after getting concurrence for the same from his/ her superiors					
	PC20.ensure the work spot is clean		4	1	2	1
	<b>Total</b>		<b>100</b>	<b>26</b>	<b>40</b>	<b>34</b>
		<b>Weight age %</b>		26%	40%	34%
<b>2.TSC/N0407 (General Maintenance Responsibilities - Ring Spinning )</b>	PC1. take a round of the work area before the start of the shift for observing the working	<b>75</b>	5	2	2	1
	PC2. note down the machines stopped for repairs and the type of problem		6	2	3	1
	PC3. dismantle and assemble different mechanisms in machines on need basis		7	2	4	1
	PC4. understand the quality complaints in the machines		6	2	3	1
	PC5. understand the works done till now and the works pending in the machines stopped for repairs or for maintenance works or modifications		5	2	2	1
	PC6. understand the production plan and preparing maintenance plan and allocating people for different activities		5	2	3	0
	PC7. understand the machines allotted for various counts and mixings and decide on the parameters to be checked while doing maintenance like top arm settings, spacers, cots and aprons, spindle tapes, jockey pulley alignment, rings and travelers,		7	3	3	1

### Assessment criteria

	traveler clearer setting, etc					
	PC8. allocate the workers for different tasks considering their knowledge, skills, maturity and workloads agreed		5	2	1	2
	PC9. identify any abnormal sound in running machine		7	2	3	2
	PC10. identify any damaged cops in the ring spinning department and segregate the same		5	2	2	1
	PC11. refer to process parameters and work out the changes to be made for change in hank or product mix and getting the changes made by the concerned maintenance workers.		5	1	1	3
	PC12. ensure the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers.		6	2	3	1
	PC13. counsel and influence a poor performers worker to achieve output as per norms		6	2	3	1
	<b>Total</b>		<b>75</b>	<b>26</b>	<b>33</b>	<b>16</b>
		<b>Weight age %</b>		35%	44%	21%
<b>3.TSC/N0408 (Preventive maintenance responsibilities - Ring Spinning)</b>	PC1. check the proper functioning of machines like ring frame and the ancillaries like trolleys, filters, roller covering and so on	<b>75</b>	5	2	2	1
	PC2. check the conditions of machine parts while they are being cleaned/scoured or overhauled		6	2	3	1

### Assessment criteria

	PC3. ensure the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers		5	2	2	1
	PC4. change the settings of the machines on need basis		6	2	3	1
	PC5. identify the worn out parts and get the worn-out parts replaced		7	3	3	1
	PC6. verify the safety stop motions and get them attended		5	2	2	1
	PC7. monitor the stoppages due to breakdowns ,analyze the reasons for breakdowns and take precautionary measures		6	2	3	1
	PC8. monitor the cot mounting and buffing activities		5	1	3	1
	PC9. conduct the tool audits i.e. the tools used for maintenance like spanners, top arm gauge, lubricating and flushing pumps, buffing machines, mounting machines, etc.		6	2	3	1
	PC10.oil and grease the different machine parts at scheduled interval for smooth functioning of machines		7	2	3	2
	PC11.schedule the oiling & greasing activities		6	2	3	1
	PC12.ensure correct oil and grease are taken		5	2	2	1
	PC13.ensure proper functioning of machines in preparatory department		6	2	3	1
	<b>Total</b>		<b>75</b>	<b>26</b>	<b>35</b>	<b>14</b>
		<b>Weight age %</b>		35%	47%	18%
<b>4. TSC/N0409 (Breakdown Maintenance - Ring Spinning)</b>	PC1. attend the machine on break down	<b>70</b>	4	1	2	1
	PC2. report to the maintenance incharge on breakdown		4	1	1	2
	PC3. preparing the machine for carrying out		4	1	2	1



### Assessment criteria

	breakdown maintenance					
	PC4. ensure in bringing the proper tool and equipments required for carrying out maintenance	4	1	2	1	
	PC5. analyze the machine which is under breakdown	5	1	3	1	
	PC6. identify the reason for breakdown	5	1	3	1	
	PC7. carryout maintenance activities	5	1	3	1	
	PC8. replace worn out parts with new parts	5	1	3	1	
	PC9. ensure safety while carrying out maintenance activity	4	1	2	1	
	PC10. ensure proper material handling of maintenance tools	4	2	2	0	
	PC11. check for proper functioning of machine after maintenance	5	1	3	1	
	PC12. run the machine and check for smooth functioning of machine parts	4	1	3	0	
	PC13. repair further if further fine tuning is needed	4	1	3	0	
	PC14. ensure the output material quality is as per quality requirement.	5	1	3	1	
	PC15. ensuring the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers	4	1	2	1	
	PC16. ensure minimum time is taken for attending the breakdown, identifying the reason for breakdown and carryout the breakdown maintenance activities	4	1	2	1	
	<b>Total</b>	<b>70</b>	<b>17</b>	<b>39</b>	<b>14</b>	

### Assessment criteria

		Weightage %		24%	56%	20%
<b>5.TSC/N0410</b> <b>(Maintaining records and ensuring availability of spares in ring spinning)</b>	PC1. carryout maintenance auditing	<b>30</b>	4	1	2	1
	PC2. record the activities in the log book (report book) and update the machine history book		4	2	2	0
	PC3. verify the stock of various spares, accessories and lubricants and work out the indenting plan and placing indents.		4	2	2	0
	PC4. refer the machinery catalogues and identify the correct spares needed.		3	2	1	0
	PC5. check quality of materials received at stores, for e.g. bearings, wheels, arbours, machine spares, belts, brushes, spanners and other tools, etc.		4	1	2	1
	PC6. carry out maintenance machine audit		4	1	2	1
	PC7. maintain the records of maintenance		3	1	1	1
	PC8. ensuring availability of spares and giving requisitions on need basis		4	1	2	1
	<b>Total</b>		<b>30</b>	<b>11</b>	<b>14</b>	<b>5</b>
		Weightage %		37%	47%	16%
<b>6.TSC/N9001</b> <b>(Maintaining work area, tools and machines)</b>	PC1. handle materials, machinery, equipment and tools with care and use them in the correct way	<b>50</b>	4	1	2	1
	PC2. use correct lifting and handling procedures		4	1	2	1
	PC3. use materials to minimize waste		3	1	1	1
	PC4. maintain a clean and hazard free working area		3	1	1	1

### Assessment criteria

	PC5. maintain tools and equipment		4	2	1	1
	PC6. carry out running maintenance within agreed schedules		4	1	2	1
	PC7. carry out maintenance and/or cleaning within one's responsibility		4	1	2	1
	PC8. report unsafe equipment and other dangerous occurrences		4	1	2	1
	PC9. ensure that the correct machine guards are in place		3	1	1	1
	PC10. work in a comfortable position with the correct posture		3	1	1	1
	PC11. use cleaning equipment and methods appropriate for the work to be carried out		3	1	1	1
	PC12. dispose of waste safely in the designated location		4	1	2	1
	PC13. store cleaning equipment safely after use		3	1	1	1
	PC14. carry out cleaning according to schedules and limits of responsibility		4	1	2	1
	<b>Total</b>		<b>50</b>	<b>15</b>	<b>21</b>	<b>14</b>
		<b>Weight age %</b>		<b>30%</b>	<b>42%</b>	<b>28%</b>
<b>7.TSC/N9002 (Working in a team)</b>	PC1. be accountable to the own role in whole process	<b>50</b>	4	2	1	1
	PC2. perform all roles with full responsibility		4	2	1	1
	PC3. be effective and efficient at workplace		5	1	2	1
	PC4. properly communicate about company policies		4	1	1	2
	PC5. report all problems faced during the process		4	2	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	1	1
	PC9. give due importance to others' point of view		4	1	2	1
	PC10. avoid conflicting situations		4	2	1	2
	PC11. develop new ideas for work		4	1	2	1

### Assessment criteria

	procedures					
	PC12. improve upon the existing techniques to increase process efficiency		4	1	2	1
	<b>Total</b>		<b>50</b>	<b>17</b>	<b>17</b>	<b>16</b>
		<b>Weightage %</b>		34%	34%	32%
<b>8.TSC/N9003 (Maintain health, safety and security at work place)</b>	PC1. comply with health and safety related instructions applicable to the workplace	<b>100</b>	5	2	2	1
	PC2. use and maintain personal protective equipment such as “ ear plug” “ nose mask “ “ head cap” etc., as per protocol		5	2	2	1
	PC3. carry out own activities in line with approved guidelines and procedures		4	2	1	1
	PC4. maintain a healthy lifestyle and guard against dependency on intoxicants		4	2	1	1
	PC5. follow environment management system related procedures		4	2	1	1
	PC6. identify and correct (if possible) malfunctions in machinery and equipment		5	2	2	1
	PC7. report any service malfunctions that cannot be rectified		4	2	1	1
	PC8. store materials and equipment in line with organisational requirements		4	1	2	1
	PC9. safely handle and remove waste		4	1	2	1
	PC10. minimize health and safety risks to self and others due to own actions		5	2	2	1
	PC11. seek clarifications, from supervisors or other authorized personnel in case of perceived risks		4	2	0	2
	PC12. monitor the workplace and work processes for potential risks and threat		5	2	2	1
	PC13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned		5	2	2	1
	PC14. report hazards and potential risks/ threats to supervisors or other authorized personnel		4	1	2	1

### Assessment criteria

	PC15. participate in mock drills/ evacuation procedures organized at the workplace		4	2	2	0
	PC16. undertake first aid, fire-fighting and emergency response training, if asked to do so		5	2	2	1
	PC17. take action based on instructions in the event of fire, emergencies or accidents		5	2	2	1
	PC18. follow organisation procedures for shutdown and evacuation when required		4	2	1	1
	PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry		4	2	1	1
	PC20. recognise other possible security issues existing in the workplace		4	2	1	1
	PC21. recognise different measures to curb the hazards		4	2	1	1
	PC22. communicate the safety plan to everyone		4	2	1	1
	PC23. attach disciplinary rules with the implementation		4	2	1	1
	<b>Total</b>		<b>100</b>	<b>43</b>	<b>34</b>	<b>23</b>
		<b>Weightage %</b>		<b>43%</b>	<b>34%</b>	<b>23%</b>
<b>9.TSC/N9004 (Comply with industry and organizational requirements)</b>	PC1. perform own duties effectively	<b>50</b>	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		4	1	2	1
	PC6. co-ordinate with all the team members and colleagues		4	1	2	1
	PC7. communicate politely		4	1	1	2
	PC8. avoid conflicts and miscommunication		4	1	2	1
	PC9. know the organisational standards		4	2	1	1
	PC10. implement them in your performance		4	1	2	1
	PC11. motivate others to follow them		3	1	1	1

**Assessment criteria**

	PC12. know the industry standards		4	3	1	0
	PC13. align them with organisation standards		4	2	1	1
	<b>Total</b>		<b>50</b>	<b>18</b>	<b>19</b>	<b>13</b>
	<b>Weightage %</b>			36%	38%	26%
<b>Grand Total</b>		<b>600</b>				