

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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**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.

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**Introduction**

**Qualifications Pack – Fitter-Ring Spinning**

**Sector: Information technology- INFORMATION TECHNOLOGY enabled SERVICES (IT-ITeS)ces Helpdesk Attendant**

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| --- | --- | --- | --- | --- |
| 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** |

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| --- | --- |
| **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**  **Minimum Educational Qualifications**  **Maximum Educational Qualifications** | 5 |
| 12th standard, preferably  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)** | **Compulsory:**   1. [TSC/ N0406 Taking charge of shift and handing over shift to fitter](#_TSC/_N0406) 2. [TSC/N 0407 General maintenance responsibilities](#_Overview) 3. [TSC/N 0408 Preventive maintenance responsibilities](#_Preventive_maintenance_responsibili) 4. [TSC/N 0409 Breakdown maintenance](#_Break_Down_Maintenance) 5. [TSC/N 0410 Maintaining records and ensuring availability of spares](#_Record_maintaining_and) 6. [TSC/ N9001 Maintain work area, tools and machines](#_Overview_1) 7. [TSC/ N9002 Working in a team](#_This_unit_is_3) 8. [TSC/ N9003 Maintain health, safety and security at workplace](#_This_unit_is_4) 9. [TSC/ N9004 Comply with industry and organizational requirement](#_This_unit_is_5)   **Optional:**  Not Applicable |
| **Performance Criteria** | As described in the relevant OS units |

# Glossary of Key Terms

**Table 1: Glossary of Key Terms**

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| --- | --- | --- |
| 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. |
| **Acronyms** | **Keywords /Terms** | **Description** |
| 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 and relieving the responsibilities to the next shift fitter**

|  |  |
| --- | --- |
| **Unit Code**  National Occupational Standard | TSC/ N0406 |
| **Unit Title**  **(Task)** | Taking charge of shift and handing over shift to fitter |
| **Description** | This unit is about taking charge of shift from previous shift fitter and relieving the responsibilities to the next shift fitter |
| Scope | This unit/task covers the following:   * To take charge of shift from previous shift fitter * To hand over the shift to next shift fitter |
| **Elements** | **Performance Criteria** |
| **Taking charge of shift** | To be competent you must be able to:   1. come at least 10 - 15 minutes earlier to the work spot 2. bring the necessary operational tools to the department 3. meet the previous shift fitter and discuss with him/ her regarding the issues faced by them with respect to the quality or production or spare or safety or any other specific instruction etc. 4. understand the count produced, colour coding, followed in the ring spinning machines 5. patrol around the machines in spinning department and ensure the smooth functioning of all the machines in the department 6. discuss with previous shift fitter regarding he issues faced in the machines if any 7. ensure all the machines are running properly, machines which are not running and problems if any should be clarified with the fitter, supervisor and operator 8. check the cleanliness of the machines & other work areas 9. check whether any spare/raw material/ tool / yarn / any other material are thrown under the machines or in the other work areas. 10. 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 that of the previous shift as well. 11. ensure the work spot is clean |
| **Handing over shift** | 1. hand over the shift to the incoming shift fitter in a proper manner 2. ensure in providing the details regarding count produced, colour coding followed for his allocated number of machines in ring spinning department 3. provide all relevant information regarding the count produced, idle machines, damaged machine parts if any 4. get clearance from the incoming counterpart before leaving the work spot 5. report to his superiors as well as that of the incoming shift fitter in case his/ her counterpart doesn't report for the incoming shift 6. ensure the shift has to be properly handed over to the incoming shift fitter 7. report to his shift superior about the quality / production / maintenance 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 8. ensure the work spot is clean |
| **Knowledge and Understanding (K)** | |
| 1. **Organizational Context** (Knowledge of the company/ organization and its processes) | You need to know and understand:   1. general rules and regulations in a spinning mill 2. safe working practices to be adopted in spinning mill 3. quality systems and other processes practiced in the spinning mill 4. reporting to the supervisor or higher authority in case of emergency 5. color coding adopted for different counts in the spinning mill |
| 1. **Technical Knowledge** | You need to know and understand:   1. understanding the importance of  * types of fibres * types of yarn * yarn count * sliver hank  1. process flow in a spinning mill 2. material flow in a spinning mill 3. functions of different machines in ring spinning department 4. importance of colour coding followed for different counts 5. guidelines for operating the ring spinning machines 6. guidelines for taking charge of shift from previous shift fitter 7. guidelines for handing over the shift to the next shift fitter 8. functions and methodology for operating different material handling tools 9. knowledge of waste collection system &equipments used 10. importance of cleanliness at workplace 11. safety procedures to be followed |
| **Skills (S)** | |
| 1. **Core Skills/ Generic Skills** | **Writing Skills** |
| You need to know and understand how to:   1. write in local language |
| **Reading Skills** |
| 1. read and comprehend written instructions |
| **oral communication (listening and speaking skills)** |
| 1. communicate with supervisor appropriately 2. talk to others to convey information effectively |
| 1. **Professional Skills** | **Problem Solving** |
| You need to know and understand how to:   1. apply problem-solving approaches in different situations 2. refer anomalies to the supervisor 3. seek clarification on problems from others |
| **Attention to Detail** |
| 1. apply good attention to detail 2. check your work is complete and free from errors |
| 1. **Technical Skills** | You need to know and understand how to:   1. patrol around different machines in spinning department 2. operate the different mechanisms of ring spinning machine 3. procedure for patrolling around the spinning department and identifying worn out or damaged machine parts 4. maintain neatness at work |

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| **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** |

**National Occupational Standard**

# Overview

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

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| **Unit Code** | **TSC/N0407** |
| **Unit Title**  National Occupational Standard  **(Task)** | General Maintenance Responsibilities |
| **Description** | This unit is about carrying out general maintenance activities in spinning department |
| Scope | This unit/task covers the following:   * Carryout general maintenance activities |
| **Performance Criteria (PC) w.r.t. the Scope** | |
| **Elements** | **Performance Criteria** |
| **General Maintenance Activities** | To be competent ,you must be able to :   1. take a round of the work area before the start of the shift and observing the working 2. note down the machines stopped for repairs and the type of problem 3. dismantle and assemble different mechanisms in machines on need basis 4. understand the quality complaints in the machines 5. understand the works done till now and the works pending in the machines stopped for repairs or for maintenance works or modifications 6. understand the production plan and preparing maintenance plan and allocating people for different activities 7. understand the machines allotted for various counts and mixings and deciding 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 8. allocate the workers for different tasks considering their knowledge, skills, maturity and workloads agreed 9. identify any abnormal sound in running machine 10. identify any damaged cops in the ring spinning department and segregate the same 11. refer to process parameters and working out the changes to be made for change in hank or product mix and getting the changes made by the concerned maintenance workers. 12. Ensure the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers. 13. counsel and influence a poor performing worker to produce as per norms |
| **Knowledge and Understanding (K)** | |
| 1. **Organizational Context** (Knowledge of the company/ organization and its processes) | The individual on the job needs to know and understand:   1. the organization's policies & procedures and its process 2. knowledge of customers 3. potential hazards associated with the machines and the safety precautions must be taken 4. protocol to obtain more information on work related tasks 5. contact person in case of queries on procedure or products and for revolving issues related to defective machines, tools, materials & equipments 6. details of the various job rolls & responsibilities 7. documentation and reporting formats 8. work targets & review machine with superiors 9. protocol and format for reporting work related risks/ problems 10. method of obtaining /giving feed back with respect to performance 11. importance of team work .harmonious working relationships 12. process for offering /obtaining work related assistance 13. responsibilities under health, safety and environmental legislation 14. guidelines for storage & disposal of waste materials |
| 1. **Technical/Domain Knowledge of product** | The individual on the job needs to know and understand:   1. process flow and material flow in spinning 2. functions of ring spinning machine 3. planning of maintenance activities and preparing date-wise plans for maintenance and replacement of parts considering their life 4. role of humidity and temperature in maintaining quality and productivity 5. basic knowledge of operating a humidification plant. 6. workloads, work allocation and standard working conditions for maintenance operatives. 7. 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. 8. factors affecting maintenance 9. roles and responsibilities of a maintenance supervisor 10. basic supervisory skills – listening and observing, communicating, counseling, taking charge, reporting and motivating 11. general management knowledge of managing subordinates, coordinating with workshop, electrical department, stores and production 12. standing orders and discipline in working 13. precautions to be taken while working 14. importance of cleanliness and personal safety 15. fire fighting and first aid 16. safety precautions and gadgets to be used in factory |
| **Skills (S)** | |
| 1. **Core Skills/ Generic Skills** | **Writing Skills** |
| You need to know and understand how to:   1. write in basic language |
| **Reading Skills** |
| 1. comprehend written instructions |
| **Participation** |
| 1. Read, write and communicate orally in local language 2. Plan and manage work routine based on instructions from supervisor 3. Should willingly participate in the various programs/ meetings that will be conducted by the Superiors & put forth the suggestions in the interest of the Company 4. Participate in the " Quality Circles" that will be formed by   the Superiors   1. Should 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"   1. GOTS Certification " Fair Trade " etc. |
| 1. **Technical Skills** | 1. Procedure to alter the setting of the following    * + - creel        - condensers        - drafting zone        - top arm settings        - spacers        - cots and aprons        - spindle tapes        - jockey pulley alignment        - rings        - spindle        - travellers        - traveller clearer setting  * pneumatic pipe fitting * changing gear wheel * variation alignment * drafting setting * ring centering * lappet & ABC setting * flutter roller eccenctricity * top arm pressure checking * gear end service * piston service * timing belt checking * bobbin holder checking * spindle oil checking * lubrication  1. skill to change the settings of different mechanisms in ring frame 2. procedure to dismantle and assemble different mechanisms in the ring frame |

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| **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** |

**National Occupational Standard**

**Overview**

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

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| **Unit Code** | **TSC /N0408** |
| **Unit Title**  National Occupational Standard  **(Task)** | Preventive maintenance responsibilities |
| **Description** | This unit is about carrying out preventive maintenance activities in ring spinning |
| Scope | This unit/task covers the following:   * Inspecting the condition of working parts * Carrying out maintenance * Oiling and greasing the machine parts |
| **Performance Criteria (PC) w.r.t. the Scope** | |
| **Elements** | **Performance Criteria** |
| Inspecting the working condition of machine parts | To be competent ,you should be able to:   1. check the proper functioning of machines like ring frame and the ancillaries like trolleys, filters, and roller covering and so on 2. check the conditions of machine parts while they are being cleaned/scoured or overhauled 3. ensure the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers |
| Carrying out maintenance | 1. change the settings of the machines on need basis 2. identify the worn out parts and getting the worn-out parts replaced 3. verify the safety stop motions and getting them attended 4. monitor the stoppages due to breakdowns and analyzing the reasons for breakdowns and taking precautionary measures 5. monitor the cot mounting and buffing activities 6. 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. |
| Oiling and greasing the machine | 1. to oil and grease the different machine parts at scheduled interval for smooth functioning of machines 2. Schedule the oiling & greasing activities 3. ensure correct oil and grease are taken 4. Ensure proper functioning of machines in preparatory department |
| **Knowledge and Understanding (K)** | |
| 1. **Organizational Context** (Knowledge of the company/ organization and its processes) | The individual on the job needs to know and understand:   1. the organization's policies & procedures and its process 2. should have an awareness, knowledge of customers 3. potential hazards associated with the machines and the safety precautions must be taken 4. protocol to obtain more information on work related tasks 5. contact person in case of queries on procedure or products and for revolving issues related to defective machines, tools, materials & equipments 6. details of the various job rolls & responsibilities 7. documentation and reporting formats 8. work targets & review machine with superiors 9. protocol and format for reporting work related risks/ problems 10. method of obtaining /giving feed back with respect to performance 11. importance of team work .harmonious working relationships 12. process for offering /obtaining work related assistance 13. responsibilities under health, safety and environmental legislation 14. guidelines for storage & disposal of waste materials |
| 1. **Technical/Domain Knowledge of product** | The individual on the job needs to know and understand:   1. importance and functions of various machines and mechanisms used in ring frame machine. 2. planning maintenance activities and preparing date-wise plans for maintenance and replacement of parts considering their life. 3. role of humidity and temperature in maintaining quality and productivity. basic knowledge of operating a humidification plant. 4. workloads, work allocation and standard working conditions for maintenance operatives. 5. 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. 6. factors affecting maintenance. 7. roles and responsibilities of a maintenance supervisor. 8. basic supervisory skills 9. importance of conducting the tool audits 10. importance of oiling and greasing 11. types of maintenance tools used 12. general management knowledge of managing subordinates, coordinating with workshop, electrical department, stores and production. 13. standing orders and discipline in working and precautions to be taken while working. 14. safety precautions and gadgets to be used in factory |
| **Skills (S)** | |
| 1. **Core Skills/ Generic Skills** | **Writing Skills** |
| You need to know and understand how to:   1. write in basic language |
| **Reading Skills** |
| 1. read and comprehend written instructions |
| **Participation** |
| 1. plan and manage work routine based on instructions from supervisor 2. should willingly participate in the various programs/ meetings that will be conducted by the superiors & put forth the suggestions in the interest of the company 3. participate in the " quality circles" that will be formed by   the superiors   1. should 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"   1. GOTS Certification " Fair Trade " etc. |
| 1. **Technical Skills** | The individual on the job needs to know and understand:   1. skill to check the condition of different machine parts 2. procedure to replace worn-out parts 3. procedure for cot mounting and buffing activities 4. skill to carryout mounting activities in cards, comber half laps and various beaters 5. procedure to oil and grease the different machine parts 6. ensuring correct oil and grease are taken 7. skill to change the settings of the different machine parts of all the ring frame |

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| **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** |

**National Occupational Standard**

**Overview**

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

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| --- | --- |
| **Unit Code** | **TSC /N0409** |
| **Unit Title (Task)**  National Occupational Standard | Break Down Maintenance |
| **Description** | This unit is about carrying out breakdown maintenance activities in spinning department in case of emergency |
| Scope | This unit/task covers the following:   * Attending the machine on breakdown * Identifying the reason for breakdown and carryout maintenance activity * Post maintenance activities |
| **Performance Criteria (PC) w.r.t. the Scope** | |
| **Elements** | **Performance Criteria** |
| Attending the machine on breakdown | To competent, you must be able to:   1. attend the machine on a break down 2. report to the maintenance in charge on a breakdown 3. preparing the machine for carrying out breakdown maintenance 4. ensure in bringing the proper tool and equipments required for carrying out maintenance |
| Identifying the reason for breakdown and carryout maintenance activity | 1. analyze the machine which is under breakdown 2. identify the reason for breakdown 3. carryout maintenance activities 4. replace worn out parts with new parts 5. ensure safety while carrying out maintenance activity 6. ensure proper material handling of maintenance tools |
| Post maintenance activities | 1. check for proper functioning of machine after maintenance 2. run the machine and check for smooth functioning of machine parts 3. repair further if further fine tuning is needed 4. ensure the output material quality is as per quality requirement. 5. ensuring the use of safety gadgets like caps, masks, gloves and shoes by all maintenance workers 6. ensure minimum time taken for attending the breakdown, identifying the reason for breakdown and carryout the breakdown maintenance activities |
| **Knowledge and Understanding (K)** | |
| 1. **Organizational Context** (Knowledge of the company/ organization and its processes) | The individual on the job needs to know and understand:   1. the organization's policies & procedures and its process 2. knowledge of customers 3. potential hazards associated with the machines and the safety precautions must be taken 4. protocol to obtain more information on work related tasks 5. contact person in case of queries on procedure or products and for revolving issues related to defective machines, tools, materials & equipments 6. details of the various job rolls & responsibilities 7. documentation and reporting formats 8. work targets & review machine with superiors 9. protocol and format for reporting work related risks/ problems 10. method of obtaining /giving feed back with respect to performance 11. importance of team work .harmonious working relationships 12. process for offering /obtaining work related assistance 13. responsibilities under health, safety and environmental legislation 14. guidelines for storage & disposal of waste materials |
| 1. **Technical/Domain Knowledge of product** | The individual on the job needs to know and understand:   1. importance and functions of various machines and mechanisms used in ring frame 2. workloads, work allocation and standard working conditions for maintenance operatives. 3. roles and responsibilities of a maintenance supervisor 4. basic supervisory skills 5. general management knowledge 6. standing orders and discipline in working and precautions to be taken while working 7. factors affecting maintenance 8. standing orders and discipline in working and precautions to be taken while working. 9. importance of time management 10. safety precautions and gadgets to be used in factory |
| **Skills (S)** | |
| 1. **Core Skills/ Generic Skills** | **Writing Skills** |
| You need to know and understand how to:   1. write in basic language |
| **Reading Skills** |
| 1. comprehend written instructions |
| **Participation** |
| 1. read, write and communicate orally in local language 2. plan and manage work routine based on instructions from supervisor 3. participate in the various programs/ meetings that will be conducted by the superiors & put forth the suggestions in the interest of the company 4. participate in the " Quality Circles" that will be formed by   the superiors   1. 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"   1. GOTS Certification " Fair Trade " etc. |
| 1. **Technical Skills** | You need to know and understand how to:   1. skill to identify the reason for breakdown 2. skill to carryout different maintenance activities 3. skill to material handling the different maintenance tools properly 4. skill to identify the quality of output material is as per requirement 5. maintain cleanliness at work place |

**NOS Version Control**

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| **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** |

**National Occupational Standard**

**Overview**

**This unit is about maintaining records and ensuring availability of spares**

|  |  |
| --- | --- |
| **Unit Code** | **TSC/N0410** |
| **Unit Title**  National Occupational Standard  **(Task)** | Maintaining records and ensuring availability of spares |
| **Description** | This unit is about carrying out maintaining record of maintenance activities in ring spinning machine |
| Scope | This unit/task covers the following:   * Maintaining records and ensuring availability of spares |
| **Performance Criteria (PC) w.r.t. the Scope** | |
| **Elements** | **Performance Criteria** |
| Maintaining records and ensuring availability of spares | To competent you must be able to :   1. carryout maintenance auditing 2. record the activities in the log book (report book) and updating the machine history book 3. verify the stock of various spares, accessories and lubricants and working out the indenting plan and placing indents. 4. refer the machinery catalogues and identify the correct spares needed. 5. check quality of materials received at stores, for e.g. bearings, wheels, arbours, machine spares, belts, brushes, spanners and other tools, etc. 6. carry out maintenance machine audit 7. maintain the records of maintenance 8. ensuring availability of spares and giving requisitions on need basis |
| **Knowledge and Understanding (K)** | |
| 1. **Organizational Context** (Knowledge of the company/ organization and its processes) | The individual on the job needs to know and understand:   1. the organization's policies & procedures and its process 2. knowledge of customers 3. potential hazards associated with the machines and the safety precautions must be taken 4. protocol to obtain more information on work related tasks 5. contact person in case of queries on procedure or products and for revolving issues related to defective machines, tools, materials & equipments 6. details of the various job rolls & responsibilities 7. documentation and reporting formats 8. work targets & review machine with superiors 9. protocol and format for reporting work related risks/ problems 10. method of obtaining /giving feed back with respect to performance 11. importance of team work .harmonious working relationships 12. process for offering /obtaining work related assistance 13. responsibilities under health, safety and environmental legislation 14. guidelines for storage & disposal of waste materials |
| 1. **Technical/Domain Knowledge of product** | The individual on the job needs to know and understand:   1. planning maintenance activities and preparing date-wise plans for maintenance and replacement of parts considering their life. 2. types and functions of different spares in ring frame 3. 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 4. roles and responsibilities of a maintenance supervisor 5. general management knowledge of managing subordinates, coordinating with workshop, electrical department, stores and production. 6. standing orders and maintaining discipline at work |
| **Skills (S)** | |
| 1. **Core Skills/ Generic Skills** | **Writing Skills** |
| You need to know and understand how to:   1. write in basic language |
| **Reading Skills** |
| 1. read and comprehend written instructions |
| **Participation** |
| 1. read, write and communicate orally in local language 2. plan and manage work routine based on instructions from supervisor 3. participate in the various programs/ meetings that will be conducted by the superiors & put forth the suggestions in the interest of the company 4. participate in the " quality circles" that will be formed by   the superiors   1. 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"   1. GOTS Certification " Fair Trade " etc. |
| **Technical Skills** | You need to know and understand how to:   1. carryout maintenance auditing 2. verify the quality of different spares used |

**NOS Version Control**

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| **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** |

**National Occupational Standard**

# Overview

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

|  |  |
| --- | --- |
| **Unit Code**  National Occupational Standard | **TSC/ N9001** |
| **Unit Title**  **(Task)** | Maintain work area, tools and machines |
| **Description** | 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 |
| Scope | This unit/task covers the following:   * Maintain the work area, tools and machines |
| **Performance Criteria (PC) w.r.t. the Scope** | |
| **Elements** | **Performance Criteria** |
| Maintain the work area, tools and machines | To be competent, you must be able to:   1. handle materials, machinery, equipment and tools with care and use them in the correct way 2. use correct lifting and handling procedures 3. use materials to minimize waste 4. maintain a clean and hazard free working area 5. maintain tools and equipment 6. carry out running maintenance within agreed schedules 7. carry out maintenance and/or cleaning within one’s responsibility 8. report unsafe equipment and other dangerous occurrences 9. ensure that the correct machine guards are in place 10. work in a comfortable position with the correct posture 11. use cleaning equipment and methods appropriate for the work to be carried out 12. dispose of waste safely in the designated location 13. store cleaning equipment safely after use 14. carry out cleaning according to schedules and limits of responsibility |
| **Knowledge and Understanding (K)** | |
| 1. **Organizational Context** (Knowledge of the company/ organization and its processes) | You need to know and understand:   1. personal hygiene and duty of care 2. safe working practices and organizational procedures 3. limits of your own responsibility 4. ways of resolving with problems within the work area 5. the production process and the specific work activities that relate to the whole process 6. the importance of effective communication with supervisors 7. the lines of communication, authority and reporting procedures 8. the organization’s rules, codes and guidelines (including timekeeping) 9. the company’s quality standards 10. the importance of complying with written instructions 11. equipment operating procedures / supervisor’s instructions |
| 1. **Technical Knowledge** | You need to know and understand:   1. work instructions and specifications and interpret them accurately 2. relation between work role and the overall manufacturing process 3. hazards likely to be encountered when conducting routine maintenance 4. the importance of taking action when problems are identified 5. different ways of minimizing waste 6. the importance of running maintenance and regular cleaning 7. effects of contamination on products i.e. machine oil, dirt, foreign materials 8. common faults with equipment and the method to rectify 9. maintenance procedures 10. different types of cleaning equipment and substances and their use 11. safe working practices for cleaning and the method of carrying them out |

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| **Skills (S)** | |
| 1. **Core Skills/ Generic Skills** | **Reading Skills** |
| You need to know and understand how to:   1. comprehend written instructions 2. read any application sent by other colleagues |
| **Oral Communication (Listening and Speaking skills)** |
| You need to know and understand how to:   1. Communicate effectively in local language 2. communicate with supervisor appropriately 3. talk to others to convey information effectively |
| 1. **Professional Skills** | **Problem Solving** |
| You need to know and understand how to:   1. identify the real reason of problem faced 2. apply problem-solving approaches in different situations 3. refer anomalies to the supervisor 4. seek clarification on problems from others |
| **Attention to Detail** |
| You need to know and understand how to:   1. apply good attention to detail 2. check your work is complete and free from errors 3. make sure every kind of communication is error free |
| 1. **Technical Skills** | You need to know and understand :   1. communicate effectively 2. apply leadership skills wherever required 3. take initiative at the right place 4. understand the requirement to be creative |

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| **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** |

**National Occupational Standard**

**Overview**

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

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| **Unit Code** | **TSC/ N9002** |
| **Unit Title**  National Occupational Standard  **(Task)** | Working in a team |
| **Description** | This unit is about working as a team member in the textile industry |
| Scope | This unit/task covers the following:   * commitment and trust * communication * adaptability * creative freedom |
| **Performance Criteria (PC) w.r.t. the Scope** | |
| **Elements** | **Performance Criteria** |
| Commitment and trust | To be competent, you must be able to:   1. be accountable to the own role in whole process 2. perform all roles with full responsibility 3. be effective and efficient at workplace |
| Communication | 1. properly communicate about company policies 2. report all problems faced during the process 3. talk politely with other team members and colleagues 4. submit daily report of own performance |
| Adaptability | 1. adjust in different work situations 2. give due importance to others’ point of view 3. avoid conflicting situations |
| Creative freedom | 1. develop new ideas for work procedures 2. improve upon the existing techniques to increase process efficiency |
| **Knowledge and Understanding (K)** | |
| 1. **Organizational Context** | You need to know and understand:   1. general rules and regulations in a textile mill 2. procedure followed to get the final output in the mill 3. safe working practices to be adopted in textile mill 4. reporting to the supervisor or higher authority about any grievances faced |
| 1. **Technical Knowledge** | 1. the importance of the previous and next step of the process 2. process flow in a textile mill and the concerned workers 3. material flow in a textile mill and the required person 4. functions of different parts of the machine 5. tools and equipments used 6. guidelines for operating the machine 7. safety procedures to be followed in the machine |
| **Skills (S)** | |
| 1. **Core Skills/ Generic Skills** | **Writing Skills** |
| You need to know and understand how to:   1. write in simple language 2. write daily work report 3. write grievance complaint application |
| **Reading Skills** |
| 1. comprehend written instructions 2. read any application sent by other colleagues |
| **Oral Communication (Listening and Speaking skills)** |
| 1. communicate with supervisor appropriately 2. talk to co-workers to convey information effectively |
| 1. **Professional Skills** | **Problem Solving** |
| You need to know and understand how to:   1. identify the real reason of problem faced 2. be able to find the most effective solution to the problems faced |
| **Attention to Detail** |
| 1. apply good attention to detail 2. ensure every kind of communication is error free |
| 1. **Technical Skills** | You need to know and understand how to:   1. communicate effectively 2. apply leadership skills wherever required 3. take initiative at the right place 4. understand the requirement to be creative |

**NOS Version Control**

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| **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** |

**National Occupational Standard**

**Overview**

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

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| **Unit Code**  National Occupational Standard | **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 | **This unit/task covers the following:**   * Comply with health, Safety and security requirements at work * Recognizing the hazards * Planning the safety techniques * Implementing the programs |
| **Performance Criteria (PC) w.r.t. the Scope** | |
| **Elements** | **Performance Criteria** |
| Comply with health, Safety and security requirements at work | To be competent, operator must be able to:   1. comply with health and safety related instructions applicable to the workplace 2. use and maintain personal protective equipment such as “ ear plug” “ nose mask “ “ head cap” etc., as per protocol 3. carry out own activities in line with approved guidelines and procedures 4. maintain a healthy lifestyle and guard against dependency on intoxicants 5. follow environment management system related procedures 6. identify and correct (if possible) malfunctions in machinery and equipment 7. report any service malfunctions that cannot be rectified 8. store materials and equipment in line with organisational requirements 9. safely handle and remove waste 10. minimize health and safety risks to self and others due to own actions 11. seek clarifications, from supervisors or other authorized personnel in case of perceived risks 12. monitor the workplace and work processes for potential risks and threat 13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned 14. report hazards and potential risks/ threats to supervisors or other authorized personnel 15. participate in mock drills/ evacuation procedures organized at the workplace 16. undertake first aid, fire-fighting and emergency response training, if asked to do so 17. take action based on instructions in the event of fire, emergencies or accidents 18. follow organisation procedures for shutdown and evacuation when required |
| Recognizing the hazards | to be competent, you must be able to:   1. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry 2. recognise other possible security issues existing in the workplace |
| Planning the safety techniques | 1. recognise different measures to curb the hazards |
| Implementing the programs | 1. communicate the safety plan to everyone 2. attach disciplinary rules with the implementation |
| **Knowledge and Understanding (K)** | |
| 1. **Organizational Context** (Knowledge of the company/ organization and its processes) | You need to know and understand:   1. general rules and regulations in a spinning mill 2. safe working practices to be adopted in spinning mill 3. quality systems and other processes practiced in the spinning mill 4. health and safety related practices applicable at the workplace 5. potential hazards, risks and threats based on nature of operations 6. organizational procedures for safe handling of equipment and machine operations 7. potential risks due to own actions and methods to minimize these 8. environmental management system related procedures at the workplace 9. layout of the plant and details of emergency exits, escape routes, emergency equipment and assembly points 10. potential accidents and emergencies and response to these scenarios 11. reporting protocol and documentation required 12. details of personnel trained in first aid, fire-fighting and emergency response 13. actions to take in the event of a mock drills/ evacuation procedures or actual accident, emergency or fire |
| 1. **Technical Knowledge** | You need to know and understand:   1. occupational health and safety risks and methods 2. personal protective equipment and method of use 3. identification, handling and storage of hazardous substances 4. proper disposal system for waste and by-products 5. signage related to health and safety and their meaning 6. importance of sound health, hygiene and good habits 7. ill-effects of alcohol, tobacco and drugs |
| **Skills (S)** | |
| 1. **Core Skills/ Generic Skills** | **Writing Skills** |
| You need to know and understand how to:   1. write in local language |
| **Reading Skills** |
| You need to know how to:   1. read and understand the company instructions 2. read and understand the local language 3. read and understand the safety guidelines |
| **Oral Communication (Listening and Speaking skills)** |
| 1. listen to others attentively 2. respond to emergencies, accidents or fire at the workplace 3. evacuate the premises and help others in need while doing so 4. the value of physical fitness, personal hygiene and good habits 5. talk with others politely |
| 1. **Professional Skills** | **Decision Making** |
| 1. identify correct safety measure for particular hazard 2. make required safety plans as and when required 3. raise alarm in case of emergency |
| **Analytical Thinking** |
| 1. know the use of correct safety measure whenever required |
| **Attention to Detail** |
| 1. be attentive to details 2. be careful to avoid occurrence of hazards |
| 1. **Technical Skills** | You need to know and understand how to:   1. maintain neatness at work 2. procedure for reporting unwanted behavior |

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| **NOS Code** | **TSC/ N9003** | | |
| **Credits (NSQF)**  **[*OPTIONAL*]** | **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** |

**NOS Version Control**

**National Occupational Standard**

**Overview**

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

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| **Unit Code**  National Occupational Standard | **TSC/ N9004** |
| **Unit Title**  **(Task)** | Comply with industry and organizational requirements |
| **Description** | This unit is about knowing, understanding, and complying with the requirements of the organization and the textile industry |
| Scope | **This unit/task covers the following:**   * focus on self development * focus on team work * know and understand organizational standards * know and understand industry standards |
| **Performance Criteria (PC) w.r.t. the Scope** | |
| **Elements** | **Performance Criteria** |
| Self- development | To be competent, you must be able to:   1. perform own duties effectively 2. take responsibility for own actions 3. be accountable towards the job role and assigned duties 4. take initiative and innovate the existing methods 5. focus on self-learning and improvement |
| Team work | 1. co-ordinate with all the team members and colleagues 2. communicate politely 3. avoid conflicts and miscommunication |
| Organizational standards | 1. know the organisational standards 2. implement them in your performance 3. motivate others to follow them |
| Industry standards | 1. know the industry standards 2. align them with organisation standards |
| **Knowledge and Understanding (K)** | |
| 1. **Organizational Context** (Knowledge of the company/ organization and its processes) | You need to know and understand:   1. general rules and regulations in a textile mill 2. reporting to the supervisor or higher authority 3. knowledge of organization standards 4. knowledge of industry standards |
| 1. **Technical Knowledge** | You need to know and understand:   1. process and material flow in a textile mill 2. importance of complying with the standards 3. guidelines for cleaning the various parts of machine |
| **Skills (S)** | |
| 1. **Core Skills/ Generic Skills** | **Writing Skills** |
| You need to know and understand how to:   1. write in simple language |
| **Reading Skills** |
| You need to know and understand how to:   1. read the given instructions 2. comprehend written instructions |
| **Oral Communication (Listening and Speaking skills)** |
| 1. talk effectively with others 2. put forward your point 3. listen to others |
| 1. **Technical skills** | you need to know and understand :   1. Organizational requirements 2. your responsibilities at the workplace 3. procedure to comply with the industry standards |

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| **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** |

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| **Job Role: Fitter-Ring Spinning Qualification Pack: Fitter-Ring Spinning (TSC/Q 0402)  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 each examination/training centre (as per assessment criteria below). 4. To pass the qualification pack, every trainee should achieve minimum grade 'C' (More Than 90% - "A+", 80%-89%-"A", 70%-79%-"B+", 60%-69%-"B", 50%-59%-"C", 49% or less is "F") | | | | | | | |
|  | | | | | | | |
| **National Occupational Standards (NOS)** | **Performance Criteria (PC)** | | **Total Marks** | **Out Of** | **Marks Allocation** | | |
| **Theory** | **Skills Practical** | **Viva** |
|  | | | | | | | |
| **1.TSC/N0406 (Taking charge of shift and handing over shift to fitter)** | | PC1.     Come at least 10 - 15 minutes earlier to the work spot | **100** | 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 or production or spare or safety or any other specific instruction etc. | 6 | 2 | 2 | 2 |
| PC4.     Understand the count produced, color 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 he issues faced in the machines if any | 6 | 2 | 3 | 1 |
| PC7.     Ensure all the machines are running properly, machines which are not running and problems if any should be clarified with the fitter, supervisor and operator | 6 | 2 | 3 | 1 |
| PC8.     Check the cleanliness of the machines & other 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 that of the previous shift as well. | 5 | 1 | 1 | 3 |
| PC11.    Ensure the work spot is clean | 4 | 1 | 2 | 1 |
| PC12.    Hand over the shift to the incoming shift fitter in a proper manner | 5 | 2 | 2 | 1 |
| PC13.    Ensure in providing the details regarding count produced, color 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 superiors as well as that of the incoming shift fitter in case his/ her counterpart doesn't report for the incoming shift | 5 | 1 | 2 | 2 |
| PC17.    Ensure the shift has to be properly handed over to the incoming shift fitter | 5 | 1 | 2 | 2 |
| PC18.    Report to his shift superior about the quality / production / maintenance 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 | 6 | 2 | 1 | 3 |
| PC19.    Ensure the work spot is clean | 4 | 1 | 2 | 1 |
| **Total** | **100** | **26** | **40** | **34** |
|  | **Weight age %** | 100**%** | 26**%** | 40**%** | 34**%** |
|  | | | | | | | |
| **2.TSC/N0407 (General Maintenance Responsibilities )** | | PC1.          Take a round of the work area before the start of the shift and observing the working | **75** | 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 deciding on the parameters to be checked while doing maintenance like top arm settings, spacers, cots and aprons, spindle tapes, jockey pulley alignment, rings and travellers, traveller clearer setting, etc | 7 | 3 | 3 | 1 |
| 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 working 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 performing worker to produce as per norms | 6 | 2 | 3 | 1 |
| **Total** | **75** | **26** | **33** | **16** |
|  | **Weight age %** | 100**%** | 34.67% | 44**%** | 21.33% |
|  | | | | | | | |
| **3.TSC/N0408 (Preventive maintenance responsibilities)** | | PC1.     Check the proper functioning of machines like ring frame and the ancillaries like trolleys, filters, and roller covering and so on | **75** | 5 | 2 | 2 | 1 |
| PC2.     Check the conditions of machine parts while they are being cleaned/scoured or overhauled | 6 | 2 | 3 | 1 |
| 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 getting the worn-out parts replaced | 7 | 3 | 3 | 1 |
| PC6.     Verify the safety stop motions and getting them attended | 5 | 2 | 2 | 1 |
| PC7.     Monitor the stoppages due to breakdowns and analyzing the reasons for breakdowns and taking 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.    To 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 |
| **Total** | **75** | **26** | **35** | **14** |
|  | **Weight age %** | 100**%** | 34.67% | 46.67% | 18.67% |
|  | |  |  |  |  |  |  |
| **4. TSC/N0409 (Breakdown Maintenance)** | | PC1.       Attend the machine on a break down | **70** | 4 | 1 | 2 | 1 |
| PC2.       Report to the maintenance in charge on a breakdown | 4 | 1 | 1 | 2 |
| PC3.       Preparing the machine for carrying out breakdown maintenance | 4 | 1 | 2 | 1 |
| 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 taken for attending the breakdown, identifying the reason for breakdown and carryout the breakdown maintenance activities | 4 | 1 | 2 | 1 |
| **Total** | **70** | **17** | **39** | **14** |
|  | **Weight age %** | 100**%** | 24.29% | 55.71% | 20**%** |
|  | |  |  |  |  |  |  |
| **5.TSC/N0410 (Maintaining records and ensuring availability of spares)** | | PC1.     Carryout maintenance auditing | **30** | 4 | 1 | 2 | 1 |
| PC2.     Record the activities in the log book (report book) and updating the machine history book | 4 | 2 | 2 | 0 |
| PC3.     Verify the stock of various spares, accessories and lubricants and working out the indenting plan and placing indents. | 4 | 2 | 2 | 0 |
| PC4.     Refer the machinery catalogues and identifying 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 records of maintenance | 3 | 1 | 1 | 1 |
| PC8.     Ensuring availability of spares and giving requisitions on need basis | 4 | 1 | 2 | 1 |
| **Total** | **30** | **11** | **14** | **5** |
|  | **Weight age %** | 100**%** | 36.67% | 46.67% | 16.67% |
|  | | | | | | | |
| **6.TSC/N9001(Maintaining work area, tools and machines)** | | 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 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 |
| **Total** | **50** | **15** | **21** | **14** |
|  | **Weight age %** | 100**%** | 30**%** | 42**%** | 28**%** |
|  | |  |  |  |  |  |  |
| **7.TSC/N9002 (Working in a team)** | | PC1. be accountable to the own role in whole process | **50** | 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 procedures | 4 | 1 | 2 | 1 |
| PC12. improve upon the existing techniques to increase process efficiency | 4 | 1 | 2 | 1 |
| **Total** | **50** | **17** | **17** | **16** |
|  | **Weight age %** | 100**%** | 34**%** | 34**%** | 32**%** |
|  | | | | | | | |
| **8.TSC/N9003 (Maintain health, safety and security at work place)** | | PC1. comply with health and safety related instructions applicable to the workplace | **100** | 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 organizational requirements | 4 | 1 | 2 | 1 |
| PC9. safely handle and remove waste | 4 | 1 | 2 | 1 |
| PC10. minimize health and safety risks to self and others due to own actions | 5 | 2 | 2 | 1 |
| PC11. seek clarifications, from supervisors or other authorized personnel in case of perceived risks | 4 | 2 | 0 | 2 |
| PC12. monitor the workplace and work processes for potential risks and threat | 5 | 2 | 2 | 1 |
| PC13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned | 5 | 2 | 2 | 1 |
| PC14. report hazards and potential risks/ threats to supervisors or other authorized personnel | 4 | 1 | 2 | 1 |
| PC15. participate in mock drills/ evacuation procedures organized at the workplace | 4 | 2 | 2 | 0 |
| PC16. undertake first aid, fire-fighting and emergency response training, if asked to do so | 5 | 2 | 2 | 1 |
| PC17. take action based on instructions in the event of fire, emergencies or accidents | 5 | 2 | 2 | 1 |
| PC18. follow 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 |
| **Total** | **100** | 43 | 34 | 23 |
|  | **Weight age %** | 100**%** | 43**%** | 34**%** | 23**%** |
|  | | | | | | | |
| **9.TSC/N9004 (Comply with industry and organizational requirements)** | | PC1. perform own duties effectively | **50** | 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 organizational standards | 4 | 2 | 1 | 1 |
| PC10. implement them in your performance | 4 | 1 | 2 | 1 |
| PC11. motivate others to follow them | 3 | 1 | 1 | 1 |
| PC12. know the industry standards | 4 | 3 | 1 | 0 |
| PC13. align them with organization standards | 4 | 2 | 1 | 1 |
| **Total** | **50** | **18** | **19** | **13** |
| **Weihtage %** |  | 100**%** | 36**%** | 38**%** | 26**%** |
| **Grand Total** | | | **600** | | | | |