

It's Objective, learning outcomes, Modules, assessments and material list

**NAME OF THE COURSE: Stentor Machine Operator and Printing Machine Operator.**

|   |   |
|---|---|
| Submitted to :-<br><b>Bihar Skill Development Mission, Labour Resources Department, GoB</b> | Submitted By :-<br><b>Sandeep Kumar</b> |
|   | Session :22-27                          |

Course name:

- Course Id- blank
- Candidate Eligibility : 5<sup>th</sup>
- Course Duration: 700 ( In hours)

**CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE**

**Name and address of submitting body:**

**Welspun India Limited**

**Welspun City, Village Versamedi, Taluka Anjar Kutch, Gujarat 370110**

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# Stenter Machine Operator

## CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Stenter Machine Operator”, in the “Textile” Sector/Industry and aims at building the following key competencies amongst the learner.

|  |  |                            |            |
|--|--|----------------------------|------------|
| <b>Program Name</b>                                | <b>Stenter Machine Operator</b>  |                            |            |
| <b>Qualification Pack Name &amp; Reference ID.</b> | Stenter Machine Operator, TSC/Q5401, version 1.0   |                            |            |
| <b>Version No.</b>                                 | 1.0  | <b>Version Update Date</b> | 30-12-2015 |
| <b>Pre-requisites to Training</b>                  | Preferably equivalent to 5 <sup>th</sup> standard  |                            |            |
| <b>Training Outcomes</b>                           | <b>After completing this programme, participants will be able to:</b> <ul style="list-style-type: none"><li>• Become well verse with taking charge of shift and handing over shift</li><li>• Learn and familiar to operate the stenter machine</li><li>• Preparing the finishing chemicals for stenter</li><li>• Maintain work area, tools and machines</li><li>• Gain behavioural skill for team working</li><li>• Maintain health, safety and security at work place</li><li>• Comply with industry and organisational requirement</li></ul> |                            |            |

This course encompasses 7 out of 7 National Occupational Standards (NOS) of “Stenter Machine Operator” Qualification Pack issued by “TSC: Textile Sector Skill Council”

| Sr. No. | Module   | Key Learning Outcomes   | Equipment Required  |
|---------|--|---|---|
| 1       | <p><b>Taking charge of shift and handing over shift to stenter machine operator</b></p> <p><b>Theory Duration</b><br/>(hh:mm)<br/>05:00</p> <p><b>Practical Duration</b><br/>(hh:mm)<br/>54:30</p>         | <ul style="list-style-type: none"> <li>• Learning general discipline</li> <li>• Become well verse with basic skills of communication</li> <li>• Understand the role of stenter machine Operator</li> <li>• Perform tasks while taking charge of shift and handing over shift</li> <li>• Become familiar in faults identification</li> </ul>   | <p><u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>  |
| 2       | <p><b>Operating the stenter machine</b></p> <p><b>Theory Duration</b><br/>(hh:mm)<br/>02:30</p> <p><b>Practical Duration</b><br/>(hh:mm)<br/>51:00</p> <p><b>Corresponding NOS Code</b><br/>TSC/N 5402</p> | <ul style="list-style-type: none"> <li>• Clean the machine properly including filters, radiators, entry exit rails, rolls etc.</li> <li>• Feed the fabric from trolley using guide rolls, compensating, fabric centering devices</li> <li>• Check the fabric width &amp; set the machine</li> <li>• Knowing the operation of the machine</li> <li>• Read &amp; understand the process being followed to do the task</li> <li>• Set the width max. &amp; min. once a day to keep even tension on fabric through out the process.</li> <li>• Keep optimum pressure of the squeezer rolls to get specified results.</li> <li>• Set required temp &amp; fan speed in all chamber</li> <li>• Feed the fabric to the stenter chain.</li> <li>• Adjust the overfeed device as per requirement</li> <li>• Start the machine &amp; take out the fabric at the delivery end.</li> <li>• Check various control parameters such as temp. fabric width, pressure etc.</li> <li>• Make sure the machine is kept clean</li> <li>• Follow the preventive maintenance schedule &amp; ensure m/c is running smoothly</li> <li>• Check that all controls are functioning properly</li> <li>• Ensure the right quality of water, steam &amp; air is available</li> <li>• Cool down the m/c after completion of job</li> </ul> | <p><u>1. A sample of following items for each trainee:</u><br/>Fabric samples</p> <p><u>2. common for every batch:</u><br/>Stenter machine, squeezing rollers, weighing balance, trolley, width measuring device</p> <p><u>3. Class room requirements:</u> 25 people seating capacity with a screen and projector</p> |

| Sr. No. | Module   | Key Learning Outcomes  | Equipment Required  |
|---------|--|--|---|
| 3       | <p><b>Preparing the finishing chemicals for stenter</b></p> <p><b>Theory Duration</b><br/>(hh:mm)<br/>02:00</p> <p><b>Practical Duration</b><br/>(hh:mm)<br/>19:30</p> <p><b>Corresponding NOS Code</b><br/>TSC/N 5403</p> | <ul style="list-style-type: none"> <li>• Dissolve the pre weighted or dispensed chemicals in the drum</li> <li>• Stir &amp; mix the chemicals properly to make a homogenous liquid.</li> <li>• Adjust the ph, temp &amp; concentration of the mixture as specified in the recipe.</li> <li>• Filter through filtering cloth and, feed the chemicals either manually or via pump to the mangle trough</li> <li>• Adjust the mangle pressure to get the required pick up.</li> </ul> | <p><u>1. A sample of following items for each trainee:</u><br/>Fabric samples, Ph meter scale, temperature sensor, scissor, pen/pencil/marker</p> <p><u>2. common for every batch:</u><br/>weighing balance, Chemicals, Squeezing rollers, stenter machine, carrying trolley</p> <p><u>3. Class room requirements:</u><br/>25 people seating capacity with a screen and projector</p> |
| 4       | <p><b>Maintain work area, tools and machines</b></p> <p><b>Theory Duration</b><br/>(hh:mm)<br/>12:00</p> <p><b>Practical Duration</b><br/>(hh:mm)<br/>32:30</p> <p><b>Corresponding NOS Code</b><br/>TSC/N 9001</p>        | <ul style="list-style-type: none"> <li>• Gain knowledge on Housekeeping system</li> <li>• Well verse in Identification of tools required for packing</li> <li>• handling equipments</li> <li>• perform Maintenance activities for handling equipments</li> </ul>   | <p><u>Class room requirements:</u> 25 people seating capacity with a screen and projector</p>   |
| 5       | <p><b>Working in a team</b></p> <p><b>Theory Duration</b><br/>(hh:mm)<br/>12:00</p> <p><b>Practical Duration</b><br/>(hh:mm)<br/>19:00</p> <p><b>Corresponding NOS Code</b></p>  | <ul style="list-style-type: none"> <li>• Understanding the team work and its importance</li> <li>• Knowing the basic requirements for team working</li> </ul>  | <p><u>Class room requirements:</u> 25 people seating capacity with a screen and projector</p>   |

| Sr. No. | Module   | Key Learning Outcomes   | Equipment Required   |
|---------|--|---|--|
|         | TSC/N 9002   |   |  |
| 6       | <p><b>Maintain health, safety and security at work place</b></p> <p><b>Theory Duration</b><br/>(hh:mm)<br/>27:30</p> <p><b>Practical Duration</b><br/>(hh:mm)<br/>66:00</p> <p><b>Corresponding NOS Code</b><br/>TSC/N 9003</p>  | <ul style="list-style-type: none"> <li>Knowing the general safety Rules</li> <li>Knowing the importance of personal protective equipment like apron, cap, earplugs, nose mask etc. and their application under different working conditions.</li> <li>Gain knowledge on various health hazards relevant to workplace and basic first aid training.</li> <li>Identify and select right equipment such as fire extinguisher &amp; based on type of fire.</li> <li>Become good practice on first aid, firefighting etc.</li> </ul> | <p><u>1. A sample of following items for each trainee:</u><br/>apron, head cap, nose mask, ear plug, shoe,</p> <p><u>2. common for every batch:</u> first aid materials, fire extinguisher, work method posters/pictures,</p> <p><u>3. Class room requirements:</u> 25 people seating capacity with a screen and projector</p> |
| 7       | <p><b>Comply with industry and organisational requirement</b></p> <p><b>Theory Duration</b><br/>(hh:mm)<br/>13:00</p> <p><b>Practical Duration</b><br/>(hh:mm)<br/>31:30</p> <p><b>Corresponding NOS Code</b><br/>TSC/N 9004</p> | <ul style="list-style-type: none"> <li>Know about organizational and industry standards</li> <li>Know the requirements for self-development</li> <li>Gain knowledge on Organizational &amp; Industry standards</li> </ul>   | <p><u>Class room requirements:</u> 25 people seating capacity with a screen and projector</p>  |
|         | <p><b>Total Duration:</b></p> <p><b>Theory Duration</b><br/><b>74:00</b></p> <p><b>Practical Duration</b><br/><b>276:00</b></p>  | <p><b>Unique Equipment Required:</b></p> <ul style="list-style-type: none"> <li>Fabric samples, required chemicals</li> <li>Stenter machine, squeezing rollers, PH metr scale, temperature sensor scissor, width measuring device, pen/pencil/marker</li> <li>Inspection table, weighing balance, trolley</li> <li>Apron, head cap, nose mask, ear plug, shoe, first aid materials, fire extinguisher, work method posters, work method video visuals, projector, screen</li> </ul>   |  |

**Grand Total Course Duration: 350 Hours, 0 Minutes**

**Trainer Prerequisites for Job role: “Stenter Machine Operator” mapped to Qualification Pack: “Stenter Machine Operator/TSC Q 5401, Version 1.0”**

| Sr. No. | Area                                      | Details  |
|---------|---|--|
| 1       | <b>Description</b>                        | To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “ <u>Stenter Machine Operator/TSC Q5401</u> ,”   |
| 2       | <b>Personal Attributes</b>                | Aptitude for conducting training, and pre/ post work to ensure competent, employable candidates at the end of the training. Strong communication skills, interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well-organized and focused, eager to learn and keep oneself updated with the latest in the mentioned field. |
| 3       | <b>Minimum Educational Qualifications</b> | Preferably equivalent to 10th (Normal literacy of reading, writing and understanding)  |
| 4a      | <b>Domain Certification</b>               | Certified for Job Role: “Stenter machine Operator” mapped to QP: “Stenter Machine Operator/TSC Q5401, Version 1.0”. Minimum accepted score 85%.  |
| 4b      | <b>Platform Certification</b>             | Required that the Trainer is certified for SSC/Q 1402 Job Role: “Trainer” with atleast 85% score   |
| 5       | <b>Experience</b>                         | Minimum 2 years experience with Stenter Machine Operator   |

## Annexure: Assessment Criteria

|  |  |
|--|--|
| <b>Assessment Criteria for Packing Checker</b> |  |
| <b>Job Role</b>                                | <b>Stenter Machine Operator</b>              |
| <b>Qualification Pack</b>                      | <b>Stenter Machine Operator (TSC/Q 5401)</b> |
| <b>Sector Skill Council</b>                    | <b>Textile Sector Skill Council</b>          |

| <b>Sr. No.</b> | <b>Guidelines for Assessment</b>   |
|----------------|--|
| 1              | Criteria for assessment for each qualification pack will be created by the Sector Skill Council. Each performance criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for theory & skill practical for each PC. |
| 2              | The assessment for the theory part will be based on knowledge bank of question created by the SSC.   |
| 3              | Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below)  |
| 4              | Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on these criteria.   |
| 5              | To pass the qualification pack, every trainee should score a minimum of 75%.   |
| 6              | In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.   |

| National Occupational Standards (NOS)  | Performance Criteria (PC)  | Total Marks | Out Of | Marks Allocation |                  |      |
|--|--|-------------|--------|------------------|------------------|------|
|  |  |             |        | Theory           | Skills Practical | Viva |
| <b>1. TSC/N 5401 (Taking charge of shift and handing over shift to Stenter Machine Operator)</b> | PC1. come at least 10 - 15 minutes earlier to the work place   | 42          | 2      | 0                | 2                | 0    |
|  | PC2. bring the necessary operational tools to the department   |             | 1      | 0                | 1                | 0    |
|  | PC3. meet the previous shift operator 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. |             | 3      | 0                | 2                | 1    |
|  | PC4. understand the fabric being processed & process running on the machine  |             | 3      | 1                | 1                | 1    |
|  | PC5. ensure the technical details are mentioned on the job card display on the machine   |             | 3      | 1                | 1                | 1    |
|  | PC6. check for the availability of the spare trolley for unloading the fabric  |             | 1      | 0                | 1                | 0    |
|  | PC7. check the next batch to be processed is ready near the machine  |             | 1      | 0                | 1                | 0    |
|  | PC8. ensure the required dyes & chemicals are already weighed & prepared   |             | 1      | 0                | 1                | 0    |
|  | PC9. check the cleanliness of the machines & other work areas  |             | 2      | 0                | 2                | 0    |
|  | PC10. Question the previous shift operator for any deviation in the above and bring the same to the knowledge of his/ her shift superior as well that of the previous shift as well.                   |             | 2      | 0                | 2                | 0    |
|  | PC11. hand over the shift to the incoming operator in a proper manner  |             | 1      | 0                | 1                | 0    |
|  | PC12. ensure in providing the details regarding fabric quality & the process running on the machine  |             | 3      | 2                | 0                | 1    |
|  | PC13. Provide all relevant information regarding the stoppages   |             | 2      | 0                | 2                | 0    |



| National Occupational Standards (NOS) | Performance Criteria (PC)  | Total Marks | Out Of    | Marks Allocation |                  |            |
|---------------------------------------|--|-------------|-----------|------------------|------------------|------------|
|                                       |  |             |           | Theory           | Skills Practical | Viva       |
|                                       | or breakdown in the machine, any damage to the fabric or machine.  |             |           |                  |                  |            |
|                                       | PC14. ensure the empty trolley is near the machine for unloading the fabric  |             | 1         | 0                | 1                | 0          |
|                                       | PC15. ensure the next lot to be processed, which is already stitched & arranged properly is ready near the machine   |             | 2         | 0                | 2                | 0          |
|                                       | PC16. ensure the required dyes & chemicals for the next lot or next process are weighed & prepared   |             | 2         | 0                | 2                | 0          |
|                                       | PC17. get clearance from the incoming counterpart before leaving the work spot   |             | 2         | 0                | 2                | 0          |
|                                       | PC18. report to his/ her shift superiors as well as that of the incoming shift operator in case his/ her counterpart doesn't report for the incoming shift   |             | 2         | 0                | 2                | 0          |
|                                       | PC19. ensure the shift has to be properly handed over to the incoming shift operator   |             | 2         | 0                | 2                | 0          |
|                                       | PC20. report to his/ her shift superior about the quality / production / safety issues/ any other issue faced in his/ her shift and leave the department only after getting concurrence for the same from his/ her superiors |             | 3         | 0                | 2                | 1          |
|                                       | PC21. collect the wastes from waste collection bags, weigh them and transport to storage area  |             | 1         | 0                | 1                | 0          |
|                                       | PC22. ensure the machine and its work place is clean   |             | 2         | 0                | 2                | 0          |
|                                       | <b>Total</b>   |             | <b>42</b> | <b>4</b>         | <b>33</b>        | <b>5</b>   |
|                                       | <b>Weightage %</b>   |             |           | <b>10%</b>       | <b>78%</b>       | <b>12%</b> |
| <b>2. TSC/N 5402 (Operating the</b>   | PC1. ensure that the machine is clean  | <b>37</b>   | 2         | 0                | 2                | 0          |

| National Occupational Standards (NOS) | Performance Criteria (PC)   | Total Marks | Out Of | Marks Allocation |                  |      |
|---------------------------------------|---|-------------|--------|------------------|------------------|------|
|                                       |   |             |        | Theory           | Skills Practical | Viva |
| <b>Stenter Machine)</b>               | PC2. feed the fabric from the batch or trolley in the centre of the machine   |             | 2      | 0                | 2                | 0    |
|                                       | PC3. ensure fabric is crease-less and evenly fed into the machine   |             | 2      | 0                | 2                | 0    |
|                                       | PC4. know the operations of the machine   |             | 2      | 0                | 2                | 0    |
|                                       | PC5. read & understand the process being followed to do the task  |             | 3      | 1                | 1                | 1    |
|                                       | PC6. set the width maximum and minimum once a day keep even tension on fabric throughout the process                                    |             | 2      | 0                | 1                | 1    |
|                                       | PC7. keep even tension on fabric throughout the process   |             | 2      | 0                | 2                | 0    |
|                                       | PC8. keep optimum pressure of the squeezer rolls to get specified results   |             | 2      | 0                | 1                | 1    |
|                                       | PC9. set the required temp & fan speeds in all chambers   |             | 3      | 1                | 1                | 1    |
|                                       | PC10. feed the fabric to the stenter chain  |             | 1      | 0                | 1                | 0    |
|                                       | PC11. adjust the overfeed device as per the requirement of the fabric   |             | 2      | 0                | 1                | 1    |
|                                       | PC12. start the machine & take out the fabric at the delivery end   |             | 1      | 0                | 1                | 0    |
|                                       | PC13. check various control parameters such as temp, width, mangle pressure & machine speed at regular interval ,hardness of the padder |             | 3      | 0                | 2                | 1    |
|                                       | PC14. make sure the machine is kept clean at all times ,before loading, while running & after unloading the fabric                      |             | 2      | 0                | 2                | 0    |
|                                       | PC15. follow the preventive maintenance schedule & ensure the machine is running smoothly   |             | 2      | 0                | 2                | 0    |
|                                       | PC16. check that all controls are   |             | 2      | 0                | 2                | 0    |

| National Occupational Standards (NOS)                                | Performance Criteria (PC)  | Total Marks | Out Of    | Marks Allocation |                  |            |
|--|--|-------------|-----------|------------------|------------------|------------|
|  |  |             |           | Theory           | Skills Practical | Viva       |
|  | functioning properly   |             |           |                  |                  |            |
|  | PC17. ensure the right quality of water , steam & air is available for proper functioning of machine |             | 2         | 0                | 2                | 0          |
|  | PC18. cool down the machine after completion of job  |             | 2         | 0                | 2                | 0          |
|  | <b>Total</b>   |             | <b>37</b> | <b>2</b>         | <b>29</b>        | <b>6</b>   |
|  | <b>Weightage %</b>   |             |           | <b>6%</b>        | <b>78%</b>       | <b>16%</b> |
| <b>3. TSC/N 5403 (preparing the Finishing Chemicals for stenter)</b> | PC1. dissolve the pre weighed or   | <b>10</b>   | 2         | 0                | 2                | 0          |
|  | PC2. stir & mix the chemicals properly to make a homogenous liquid                                   |             | 2         | 1                | 1                | 0          |
|  | PC3. adjust the ph., temp & concentration of the mixture as specified in the finishing recipe        |             | 3         | 1                | 1                | 1          |
|  | PC4. feed the chemicals either manually or via pump to the mangle trough                             |             | 1         | 0                | 1                | 0          |
|  | PC5. adjust the mangle pressure to get the required pick up  |             | 2         | 0                | 2                | 0          |
|  | <b>Total</b>   |             | <b>10</b> | <b>2</b>         | <b>7</b>         | <b>1</b>   |
|  | <b>Weightage %</b>   |             |           | <b>20%</b>       | <b>70%</b>       | <b>10%</b> |
| <b>4. TSC/ N9001 (Maintain work area, tools and machines)</b>        | PC1. handle materials, machinery, equipment and tools with care and use them in the correct way      | <b>29</b>   | 3         | 1                | 2                | 0          |
|  | PC2. use correct lifting and handling procedures   |             | 1         | 0                | 1                | 0          |
|  | PC3. use materials to minimize waste   |             | 2         | 1                | 1                | 0          |
|  | PC4. maintain a clean and hazard free working area   |             | 3         | 1                | 1                | 1          |
|  | PC5. maintain tools and equipment  |             | 3         | 1                | 2                | 0          |
|  | PC6. carry out running maintenance within agreed schedules   |             | 2         | 1                | 1                | 0          |
|  | PC7. carry out maintenance and/or cleaning within one's responsibility                               |             | 1         | 0                | 1                | 0          |
|  | PC8. report unsafe equipment and other dangerous occurrences   |             | 1         | 1                | 0                | 0          |

| National Occupational Standards (NOS)   | Performance Criteria (PC)   | Total Marks | Out Of    | Marks Allocation |                  |           |
|---|---|-------------|-----------|------------------|------------------|-----------|
|   |   |             |           | Theory           | Skills Practical | Viva      |
|   | PC9. ensure that the correct machine guards are in place                            |             | 2         | 1                | 1                | 0         |
|   | PC10. work in a comfortable position with the correct posture                       |             | 3         | 1                | 2                | 0         |
|   | PC11. use cleaning equipment and methods appropriate for the work to be carried out |             | 2         | 1                | 1                | 0         |
|   | PC12. dispose of waste safely in the designated location                            |             | 2         | 0                | 2                | 0         |
|   | PC13. store cleaning equipment safely after use                                     |             | 2         | 0                | 2                | 0         |
|   | PC14. carry out cleaning according to schedules and limits of responsibility        |             | 2         | 1                | 1                | 0         |
|   | <b>Total</b>  |             | <b>29</b> | <b>10</b>        | <b>18</b>        | <b>1</b>  |
|   | <b>Weightage %</b>  |             |           | <b>35%</b>       | <b>62%</b>       | <b>3%</b> |
| <b>5.TSC/ N9002 (Working in a team)</b> | PC1. be accountable to the own role in whole process                                | <b>26</b>   | 2         | 1                | 1                | 0         |
|   | PC2. perform all roles with full responsibility                                     |             | 3         | 1                | 2                | 0         |
|   | PC3. be effective and efficient at workplace  |             | 4         | 1                | 2                | 1         |
|   | PC4. properly communicate about company policies                                    |             | 2         | 1                | 0                | 1         |
|   | PC5. report all problems faced during the process                                   |             | 1         | 1                | 0                | 0         |
|   | PC6. talk politely with other team members and colleagues                           |             | 2         | 1                | 1                | 0         |
|   | PC7. submit daily report of own performance   |             | 1         | 0                | 1                | 0         |
|   | PC8. adjust in different work situations  |             | 2         | 0                | 2                | 0         |
|   | PC9. give due importance to others' point of view                                   |             | 2         | 1                | 0                | 1         |
|   | PC10. avoid conflicting situations  |             | 3         | 1                | 1                | 1         |
|   | PC11. develop new ideas for work procedures   |             | 2         | 1                | 1                | 0         |
|   | PC12. improve upon the existing techniques to increase process efficiency           |             | 2         | 1                | 1                | 0         |

| National Occupational Standards (NOS)                                    | Performance Criteria (PC)   | Total Marks | Out Of    | Marks Allocation |                  |            |
|--|---|-------------|-----------|------------------|------------------|------------|
|  |   |             |           | Theory           | Skills Practical | Viva       |
|  | <b>Total</b>  |             | <b>26</b> | <b>10</b>        | <b>12</b>        | <b>4</b>   |
|  | <b>Weightage %</b>  |             |           | <b>39%</b>       | <b>46%</b>       | <b>15%</b> |
| <b>6. TSC/ N9003 (Maintain health, safety and security at workplace)</b> | PC1. comply with health and safety related instructions applicable to the workplace                                     | <b>71</b>   | 5         | 1                | 3                | 1          |
|  | PC2. use and maintain personal protective equipment such as “ear plug”, “nose mask “, “ head cap” etc., as per protocol |             | 5         | 1                | 3                | 1          |
|  | PC3. carry out own activities in line with approved guidelines and procedures   |             | 3         | 1                | 2                | 0          |
|  | PC4. maintain a healthy lifestyle and guard against dependency on intoxicants   |             | 2         | 1                | 0                | 1          |
|  | PC5. follow environment management system related procedures  |             | 3         | 1                | 2                | 0          |
|  | PC6. identify and correct (if possible) malfunctions in machinery and equipment   |             | 3         | 1                | 1                | 1          |
|  | PC7. report any service malfunctions that cannot be rectified   |             | 2         | 1                | 0                | 1          |
|  | PC8. store materials and equipment in line with organisational requirements   |             | 2         | 0                | 1                | 1          |
|  | PC9. safely handle and remove waste   |             | 2         | 0                | 2                | 0          |
|  | PC10. minimize health and safety risks to self and others due to own actions  |             | 3         | 1                | 1                | 1          |
|  | PC11. seek clarifications, from supervisors or other authorized personnel in case of perceived risks                    |             | 3         | 1                | 1                | 1          |
|  | PC12. monitor the workplace and work processes for potential risks and threat   |             | 2         | 0                | 2                | 0          |
|  | PC13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned                 |             | 3         | 2                | 0                | 1          |

| National Occupational Standards (NOS)                                      | Performance Criteria (PC)   | Total Marks | Out Of    | Marks Allocation |                  |            |
|--|---|-------------|-----------|------------------|------------------|------------|
|  |   |             |           | Theory           | Skills Practical | Viva       |
|  | PC14. report hazards and potential risks/ threats to supervisors or other authorized personnel                    |             | 3         | 2                | 0                | 1          |
|  | PC15. participate in mock drills/ evacuation procedures organized at the workplace                                |             | 3         | 1                | 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                            |             | 4         | 1                | 2                | 1          |
|  | PC18. follow organisation procedures for shutdown and evacuation when required                                    |             | 2         | 0                | 2                | 0          |
|  | PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry |             | 5         | 1                | 3                | 1          |
|  | PC20. recognize other possible security issues existing in the workplace  |             | 3         | 1                | 1                | 1          |
|  | PC21. attach disciplinary rules with the implementation   |             | 3         | 1                | 2                | 0          |
|  | PC22. communicate the safety plan to everyone   |             | 3         | 2                | 0                | 1          |
|  | PC23. attach disciplinary rules with the implementation   |             | 2         | 1                | 1                | 0          |
|  | <b>Total</b>  |             | <b>71</b> | <b>23</b>        | <b>33</b>        | <b>15</b>  |
|  | <b>Weightage %</b>  |             |           | <b>32%</b>       | <b>47%</b>       | <b>21%</b> |
| <b>7. TSC/ N9004 (Comply with industry and organisational requirement)</b> | PC1. perform own duties effectively   | <b>39</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  |             | 3         | 1                | 1                | 1          |
|  | PC4. take initiative and innovate the existing methods  |             | 4         | 1                | 2                | 1          |
|  | PC5. focus on self-learning and improvement   |             | 3         | 1                | 1                | 1          |

| National Occupational Standards (NOS) | Performance Criteria (PC)                                 | Total Marks | Out Of     | Marks Allocation |                  |            |
|---------------------------------------|---|-------------|------------|------------------|------------------|------------|
|                                       |   |             |            | Theory           | Skills Practical | Viva       |
|                                       | PC6. co-ordinate with all the team members and colleagues |             | 3          | 1                | 2                | 0          |
|                                       | PC7. communicate politely                                 |             | 3          | 1                | 2                | 0          |
|                                       | PC8. avoid conflicts and miscommunication                 |             | 3          | 1                | 2                | 0          |
|                                       | PC9. know the organisational standards                    |             | 2          | 1                | 1                | 0          |
|                                       | PC10. implement them in your performance                  |             | 3          | 1                | 2                | 0          |
|                                       | PC11. motivate others to follow them                      |             | 3          | 1                | 2                | 0          |
|                                       | PC12. know the industry standards                         |             | 2          | 1                | 0                | 1          |
|                                       | PC13. align them with organisation standards              |             | 2          | 0                | 2                | 0          |
|                                       | <b>Total</b>  |             | <b>39</b>  | <b>12</b>        | <b>21</b>        | <b>6</b>   |
|                                       | <b>Weightage %</b>  |             |            | <b>31%</b>       | <b>54%</b>       | <b>15%</b> |
|                                       | <b>Total</b>  |             | <b>254</b> | <b>63</b>        | <b>153</b>       | <b>38</b>  |
| <b>Grand Total</b>                    |   |             | <b>254</b> |                  |                  |            |

# Printing Machine Operator

## CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Printing Machine Operator”, in the “Textile” Sector/Industry and aims at building the following key competencies amongst the learner

|  |  |                            |            |
|--|--|----------------------------|------------|
| <b>Program Name</b>                                | <b>Printing Machine Operator</b>   |                            |            |
| <b>Qualification Pack Name &amp; Reference ID.</b> | Printing Machine Operator<br>TSC/Q5204, version 1.0  |                            |            |
| <b>Version No.</b>                                 | 1.0  | <b>Version Update Date</b> | 18-01-2016 |
| <b>Pre-requisites to Training</b>                  | Preferably equivalent to 5th standard  |                            |            |
| <b>Training Outcomes</b>                           | <b>After completing this programme, participants will be able to:</b> <ul style="list-style-type: none"><li>• Perform taking charge of shift and handing over shift</li><li>• Operate the Printing machine</li><li>• Prepare the sample for check quality of printed fabric</li><li>• Maintain work area, tools and machines</li><li>• Gain behavioral skill for team working</li><li>• Maintain health, safety and security at work place</li><li>• Comply with industry and organizational requirement</li></ul> |                            |            |



This course encompasses 7 out of 7 National Occupational Standards (NOS) of “Printing Machine Operator” TSC/ Q 5204 Qualification Pack issued by “TSC: Textile Sector Skill Council”

|   | Module  | Key Learning Outcomes   | Equipment Required   |
|---|---|---|--|
| 1 | <p><b>Taking charge of shift and handing over shift to Printing machine operator</b></p> <p><b>Theory Duration</b><br/>(hh:mm)<br/>05:00</p> <p><b>Practical Duration</b><br/>(hh:mm)<br/>52:30</p> <p><b>Corresponding NOS Code</b> TSC/N 5210</p> | <ul style="list-style-type: none"> <li>• Learning general discipline</li> <li>• Become well verse with basic skills of communication</li> <li>• Understand the role of carding operator</li> <li>• Perform tasks while taking charge of shift and handing over shift</li> <li>• Become familiar in faults identification</li> </ul> | <p><u>Class room requirements:</u><br/>a batch of 25 people seating capacity with a screen and projector</p>   |
| 2 | <p><b>Operating the Printing machine</b></p> <p><b>Theory Duration</b><br/>(hh:mm)<br/>2:00</p> <p><b>Practical Duration</b><br/>(hh:mm)<br/>55:00</p> <p><b>Corresponding NOS Code</b> TSC/N 5211</p>  | <ul style="list-style-type: none"> <li>• Gain knowledge on machine parts &amp; its function</li> <li>• Gain knowledge on preparation activities of Printing machine</li> <li>• Perform Starting and feeding operation</li> <li>• Perform machine settings regarding processing parameters</li> </ul>                                | <p>1. common for every batch: poster/video visuals for work method</p> <p>2. <u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>                                       |
| 3 | <p><b>Check the quality of a sample of the printed fabric</b></p> <p><b>Theory Duration</b><br/>(hh:mm)<br/>02:00</p> <p><b>Practical Duration</b><br/>(hh:mm)<br/>08:00</p> <p><b>Corresponding NOS Code</b> TSC/N 5212</p>                        | <ul style="list-style-type: none"> <li>• Perform cutting of the sample</li> <li>• Perform and check the processed sample matching with the standard</li> </ul>  | <p><u>Class room requirements:</u><br/>a batch of 25 people seating capacity with a screen and projector</p> <p>2. <u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p> |

|   |   |  |  |
|---|---|--|--|
| 4 | <p><b>Maintain work area, tools and machines</b></p> <p><b>Theory Duration</b><br/>(hh:mm)<br/>12:00</p> <p><b>Practical Duration</b><br/>(hh:mm)<br/>32:30</p> <p><b>Corresponding NOS Code</b><br/>TSC/N 9001</p>             | <ul style="list-style-type: none"> <li>• Gain knowledge on Housekeeping system</li> <li>• Identify and know unique functions of basic hand tools like cleaning hook, cleaning stick, bag, etc.</li> <li>• Handling equipment importance</li> <li>• Perform maintenance activities for handling equipment</li> </ul>  | <p><u>1. common for every batch:</u> poster/video visuals for work method</p> <p><u>2. Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>  |
| 5 | <p><b>Working in a team</b></p> <p><b>Theory Duration</b><br/>(hh:mm)<br/>12:00</p> <p><b>Practical Duration</b><br/>(hh:mm)<br/>29:00</p> <p><b>Corresponding NOS Code</b><br/>TSC/N 9002</p>                                  | <ul style="list-style-type: none"> <li>• Understanding the team work and its importance</li> <li>• Know the basic requirements for team working</li> </ul>   | <p><u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>   |
| 6 | <p><b>Maintain health, safety and security at work place</b></p> <p><b>Theory Duration</b><br/>(hh:mm)<br/>27:00</p> <p><b>Practical Duration</b><br/>(hh:mm)<br/>57:00</p> <p><b>Corresponding NOS Code</b><br/>TSC/N 9003</p> | <ul style="list-style-type: none"> <li>• Know the general safety Rules</li> <li>• Know the importance of personal protective equipment like apron, cap, earplugs, nose mask etc. and their application under different working conditions.</li> <li>• Gain knowledge on various health hazards relevant to workplace and basic first aid training.</li> <li>• Identify and select right equipment such as fire extinguisher &amp; based on type of fire.</li> <li>• Practice on first aid, fire fighting etc.</li> </ul> | <p><u>1. A sample of following items for each trainee:</u> apron, head cap, nose mask, ear plug, shoe,</p> <p><u>2. common for every batch:</u> first aid materials, fire extinguisher, work method posters/<br/><u>pictures.</u></p> <p><u>3. Class room requirements:</u> 25 people seating capacity with a screen and projector</p> |

|   |  |   |   |
|---|--|---|---|
| 7   | <p><b>Comply with industry and organisational requirement</b></p> <p><b>Theory Duration</b><br/>(hh:mm)<br/>14:00</p> <p><b>Practical Duration</b><br/>(hh:mm)<br/>42:00</p> <p><b>Corresponding NOS Code</b><br/>TSC/N 9004</p> | <ul style="list-style-type: none"> <li>• Know about organizational and industry standards</li> <li>• Know the requirements for self-development</li> <li>• Gain knowledge on Organizational &amp; Industry standards</li> </ul> | <p><u>Class room</u><br/>requirements: 25 people seating capacity with a screen and projector</p> |
| <p><b>Total Duration:</b></p> <p><b>Theory Duration</b><br/><b>74:00</b></p> <p><b>Practical Duration</b><br/><b>276:00</b></p> | <p><b>Unique Equipment Required:</b><br/>Apron, head cap, nose mask, earplug, shoe, Print screens, Printing paste, Fabric trolley, Fabric roll, Empty Fabric roll, Pen &amp; Pencil</p>  |   |   |

**Grand Total Course Duration: 350 Hours, 0 Minutes**

**Trainer Prerequisites for Job role: “Printing Machine Operator ” mapped to**

**Qualification Pack: “Printing Machine Operator / TSC Q 5204, Version 1.0”**

| Sr. No. | Area                                      | Details   |
|---------|---|---|
| 1       | <b>Description</b>                        | To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “ <u>Printing Machine Operator /TSC Q5204,</u>  |
| 2       | <b>Personal Attributes</b>                | Aptitude for conducting training, and pre/ post work to ensure competent, employable candidates at the end of the training.Strong communication skills, interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well-organized and focused, eager to learn and keep oneself updated with the latest in the mentioned field. |
| 3       | <b>Minimum Educational Qualifications</b> | Preferably equivalent to 10th (Normal literacy of reading, writing and understanding)   |
| 4a      | <b>Domain Certification</b>               | Certified for Job Role: “Printing Machine Operator” mapped to QP: “Printing Machine Operator TSC Q5204, Version 1.0”. Minimum accepted score 80%.   |
| 4b      | <b>Platform Certification</b>             | Required that the Trainer is certified for MEP/Q 0102 Job Role: “Trainer” with atleast 80% score  |
| 5       | <b>Experience</b>                         | Minimum 2 years’ experience with Printing Machine   |

## Annexure: Assessment Criteria

| <b>Job Role: Printing Machine Operator</b><br><b>Qualification Pack: Printing Machine Operator (TSC/Q5204)</b><br><b>Sector Skill Council: Textile Sector Skill Council</b>   |  |             |        |                  |                  |      |
|---|--|-------------|--------|------------------|------------------|------|
| <b>Guidelines for assessment :-</b><br>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.<br>2. The assessment for the theory part will be based on knowledge bank of question created by the SSC.<br>3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below)<br>4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on these criteria.<br>5. To pass the qualification pack, every trainee should score a minimum of 80%.<br>6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack |  |             |        |                  |                  |      |
| National Occupational Standards (NOS)   | Performance Criteria (PC)  | Total Marks | Out Of | Marks Allocation |                  |      |
|   |  |             |        | Theory           | Skills Practical | Viva |
| <b>1. TSC/N 5210 (Taking charge of shift and handing over shift to Printing Machine Operator)</b>   | PC1. come at least 10 - 15 minutes earlier to the work place   | <b>40</b>   | 2      | 0                | 2                | 0    |
|   | PC2. bring the necessary operational tools to the department   |             | 1      | 0                | 1                | 0    |
|   | PC3. meet the previous shift operator 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. |             | 2      | 0                | 1                | 1    |
|   | PC4. understand the fabric being processed & process running on the machine  |             | 2      | 1                | 0                | 1    |
|   | PC5. ensure the technical details are mentioned on the job card display on the machine   |             | 3      | 1                | 1                | 1    |
|   | PC6. check for the availability of the spare trolley for unloading the fabric  |             | 1      | 0                | 1                | 0    |
|   | PC7. check the next batch to be processed is ready near the machine  |             | 1      | 0                | 1                | 0    |
|   | PC8. ensure the required dyes & chemicals are already weighed & prepared   |             | 1      | 0                | 1                | 0    |

|  |   |   |   |   |
|--|---|---|---|---|
| PC9. check the cleanliness of the machines & other work areas  | 2 | 0 | 2 | 0 |
| PC10. Question the previous shift operator for any deviation in the above and bring the same to the knowledge of his/ her shift superior as well that of the previous shift as well.   | 2 | 0 | 2 | 0 |
| PC11. hand over the shift to the incoming operator in a proper manner  | 1 | 0 | 1 | 0 |
| PC12. ensure proper communication regarding fabric quality & the process running on the machine while providing the details  | 3 | 1 | 1 | 1 |
| PC13. Provide all relevant information regarding the stoppages or breakdown in the machine, any damage to the fabric or machine.   | 2 | 0 | 2 | 0 |
| PC14. ensure the empty trolley is near the machine for unloading the fabric  | 1 | 0 | 1 | 0 |
| PC15. ensure the next lot to be processed, which is already stitched & arranged properly is ready near the machine   | 2 | 0 | 2 | 0 |
| PC16. ensure the required dyes & chemicals for the next lot or next process are weighed & prepared   | 2 | 0 | 2 | 0 |
| PC17. get clearance from the incoming counterpart before leaving the work spot   | 2 | 0 | 2 | 0 |
| PC18. report to his/ her shift superiors as well as that of the incoming shift operator in case his/ her counterpart doesn't report for the incoming shift   | 2 | 0 | 2 | 0 |
| PC19. ensure the shift has to be properly handed over to the incoming shift operator   | 2 | 0 | 2 | 0 |
| PC20. report to his/ her shift superior about the quality / production / safety issues/ any other issue faced in his/ her shift and leave the department only after getting concurrence for the same from his/ her superiors | 3 | 1 | 1 | 1 |
| PC21. collect the wastes from waste collection bags, weigh them and transport to storage area  | 1 | 0 | 1 | 0 |
| PC22. ensure the machine and its work place is clean   | 2 | 0 | 2 | 0 |

|   | <b>Total</b>   |           | <b>40</b> | <b>4</b>   | <b>31</b>  | <b>5</b>   |
|---|--|-----------|-----------|------------|------------|------------|
|   | <b>Weightage %</b>   |           |           | <b>10%</b> | <b>77%</b> | <b>13%</b> |
| <b>2. TSC/N 5211<br/>(Operating the<br/>Printing<br/>Machine)</b> | PC1. understand the task mentioned in the work order   | <b>40</b> | 2         | 1          | 0          | 1          |
|   | PC2. ensure that the machine is empty & clean  |           | 2         | 0          | 2          | 0          |
|   | PC3. load the fabric from the batch/trolley in the centre of the machine                                     |           | 1         | 0          | 1          | 0          |
|   | PC4. ensure fabric is crease-free and lint/ dust free  |           | 2         | 0          | 2          | 0          |
|   | PC5. place the screens on the print station/ head according to the colours to be printed                     |           | 3         | 0          | 2          | 1          |
|   | PC6. set the repeat according to the design to be printed  |           | 3         | 0          | 3          | 0          |
|   | PC7. apply glue to the rubber blanket for sticking   |           | 1         | 0          | 1          | 0          |
|   | PC8. get all dyes & printing chemical / auxiliaries weighed  |           | 1         | 0          | 1          | 0          |
|   | PC9. mix the thickener , binder & other auxiliaries first to get the required viscosity                      |           | 3         | 1          | 2          | 0          |
|   | PC10. add dyes to the thickening paste according to the shade  |           | 2         | 0          | 2          | 0          |
|   | PC11. filter the print paste according to screen mesh of printing to avoid choke up                          |           | 2         | 0          | 2          | 0          |
|   | PC12. check screen „zero“ position on the blanket for proper fabric printing before starting to print fabric |           | 1         | 0          | 1          | 0          |
|   | PC13. start the printing machine & check if design is correct  |           | 1         | 0          | 1          | 0          |
|   | PC14. adjust the squeeze pressure if registration is poor or uneven  |           | 2         | 0          | 2          | 0          |
|   | PC15. maintain synchronized & continuous feeding of fabric   |           | 2         | 0          | 2          | 0          |
|   | PC16. check for pin holes & other defects due to blockage of screen  |           | 2         | 0          | 2          | 0          |
|   | PC17. clean the screens if machine is stopped for longer periods   |           | 2         | 0          | 2          | 0          |
|   | PC18. make sure the fabric is dried properly after printing  |           | 1         | 0          | 1          | 0          |

|  |   |           |           |            |            |            |
|--|---|-----------|-----------|------------|------------|------------|
|  | PC19. keep the machine clean at all times   |           | 2         | 0          | 2          | 0          |
|  | PC20. follow the preventive maintenance schedule & ensure the machine is running smoothly |           | 2         | 0          | 2          | 0          |
|  | PC21. check that all controls are functioning properly                                    |           | 1         | 0          | 1          | 0          |
|  | PC22. clean the printing blanket before changing to new design or new matching            |           | 2         | 0          | 2          | 0          |
|  | <b>Total</b>  |           | <b>40</b> | <b>2</b>   | <b>36</b>  | <b>2</b>   |
|  | <b>Weightage %</b>  |           |           | <b>5%</b>  | <b>90%</b> | <b>5%</b>  |
| <b>3. TSC/N 5212<br/>(Check the quality of a sample of the printed fabric)</b> | PC1. cut the sample after the dryer   | <b>9</b>  | 1         | 0          | 1          | 0          |
|  | PC2. fix/ cure the printed sample in a steamer or oven                                    |           | 3         | 0          | 2          | 1          |
|  | PC3. wash the sample after curing & dry it  |           | 2         | 1          | 1          | 0          |
|  | PC4. compare the sample with standard as mentioned in the work order                      |           | 2         | 1          | 1          | 0          |
|  | PC5. take the sample to supervisor if it's not matching to standard                       |           | 1         | 0          | 1          | 0          |
|  | <b>Total</b>  |           | <b>9</b>  | <b>2</b>   | <b>6</b>   | <b>1</b>   |
|  | <b>Weightage %</b>  |           |           | <b>22%</b> | <b>67%</b> | <b>11%</b> |
| <b>4. TSC/ N9001<br/>(Maintain work area, tools and machines)</b>              | PC1. handle materials, machinery, equipment and tools safely and correctly                | <b>29</b> | 3         | 1          | 2          | 0          |
|  | PC2. use correct lifting and handling procedures  |           | 1         | 0          | 1          | 0          |
|  | PC3. use materials to minimize waste  |           | 2         | 1          | 1          | 0          |
|  | PC4. maintain a clean and hazard free working area  |           | 3         | 1          | 1          | 1          |
|  | PC5. maintain tools and equipment   |           | 3         | 1          | 2          | 0          |
|  | PC6. carry out running maintenance within agreed schedules                                |           | 2         | 1          | 1          | 0          |
|  | PC7. carry out maintenance and/or cleaning within one's responsibility                    |           | 1         | 0          | 1          | 0          |
|  | PC8. report unsafe equipment and other dangerous occurrences                              |           | 1         | 1          | 0          | 0          |
|  | PC9. ensure that the correct machine guards are in place                                  |           | 2         | 1          | 1          | 0          |
|  | PC10. work in a comfortable position  |           | 3         | 1          | 2          | 0          |



|   |   |           |           |            |            |            |
|---|---|-----------|-----------|------------|------------|------------|
|   | with the correct posture  |           |           |            |            |            |
|   | PC11. use cleaning equipment and methods appropriate for the work to be carried out                     |           | 2         | 1          | 1          | 0          |
|   | PC12. dispose of waste safely in the designated location  |           | 2         | 0          | 2          | 0          |
|   | PC13. store cleaning equipment safely after use   |           | 2         | 0          | 2          | 0          |
|   | PC14. carry out cleaning according to schedules and limits of responsibility                            |           | 2         | 1          | 1          | 0          |
|   | <b>Total</b>  |           | <b>29</b> | <b>10</b>  | <b>18</b>  | <b>1</b>   |
|   | <b>Weightage %</b>  |           |           | <b>35%</b> | <b>62%</b> | <b>3%</b>  |
| <b>5.TSC/ N9002 (Working in a team)</b>                                 | PC1. Be accountable to the own role in whole process  | <b>26</b> | 2         | 1          | 1          | 0          |
|   | PC2. Perform all roles with full responsibility   |           | 3         | 1          | 2          | 0          |
|   | PC3. Be effective and efficient at workplace  |           | 4         | 1          | 2          | 1          |
|   | PC4. Properly communicate about company policies  |           | 2         | 1          | 0          | 1          |
|   | PC5. Report all problems faced during the process   |           | 1         | 1          | 0          | 0          |
|   | PC6. Talk politely with other team members and colleagues   |           | 2         | 1          | 1          | 0          |
|   | PC7. Submit daily report of own performance   |           | 1         | 0          | 1          | 0          |
|   | PC8. Adjust in different work situations  |           | 2         | 0          | 2          | 0          |
|   | PC9. Give due importance to others' point of view   |           | 2         | 1          | 0          | 1          |
|   | PC10. Avoid conflicting situations  |           | 3         | 1          | 1          | 1          |
|   | PC11. collaborate with colleagues performing the pre-required and post-required duty of Warping machine |           | 2         | 1          | 1          | 0          |
|   | PC12. Develop new ideas for work procedures   |           | 2         | 1          | 1          | 0          |
|   | <b>Total</b>  |           | <b>26</b> | <b>10</b>  | <b>12</b>  | <b>4</b>   |
|   | <b>Weightage %</b>  |           |           | <b>39%</b> | <b>46%</b> | <b>15%</b> |
| <b>6. TSC/ N9003(Maintain health, safety and security at workplace)</b> | PC1. comply with health and safety related instructions applicable to the workplace                     | <b>71</b> | 5         | 1          | 3          | 1          |
|   | PC2. use and maintain personal protective equipment as per protocol                                     |           | 5         | 1          | 3          | 1          |

|   |   |   |   |   |
|---|---|---|---|---|
| PC3. carry out own activities in line with approved guidelines and procedures                           | 3 | 1 | 2 | 0 |
| PC4. maintain a healthy lifestyle and guard against dependency on intoxicants                           | 2 | 1 | 0 | 1 |
| PC5. follow environment management system related procedures  | 3 | 1 | 2 | 0 |
| PC6. identify and correct (if possible) malfunctions in machinery and equipment                         | 3 | 1 | 1 | 1 |
| PC7. report any service malfunctions that cannot be rectified   | 2 | 1 | 0 | 1 |
| PC8. store materials and equipment in line with manufacturer's and organisational requirements          | 2 | 0 | 1 | 1 |
| PC9. safely handle and move waste and debris  | 2 | 0 | 2 | 0 |
| PC10. minimize health and safety risks to self and others due to own actions                            | 3 | 1 | 1 | 1 |
| PC11. seek clarifications, from supervisors or other authorized personnel in case of perceived risks    | 3 | 1 | 1 | 1 |
| PC12. monitor the workplace and work processes for potential risks and threats                          | 2 | 0 | 2 | 0 |
| PC13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned | 3 | 2 | 0 | 1 |
| PC14. report hazards and potential risks/ threats to supervisors or other authorized personnel          | 3 | 2 | 0 | 1 |
| PC15. participate in mock drills/ evacuation procedures organized at the workplace                      | 3 | 1 | 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                  | 4 | 1 | 2 | 1 |
| PC18. follow organisation procedures for shutdown and evacuation when required                          | 2 | 0 | 2 | 0 |
| PC19. identify different kinds of possible hazards (environmental,                                      | 5 | 1 | 3 | 1 |

|  |  |            |            |            |            |            |
|--|--|------------|------------|------------|------------|------------|
|  | personal, ergonomic, chemical) of the industry                           |            |            |            |            |            |
|  | PC20. recognise other possible security issues existing in the workplace |            | 3          | 1          | 1          | 1          |
|  | PC21. recognise different measures to curb the hazards                   |            | 3          | 1          | 2          | 0          |
|  | PC22. communicate the safety plan to everyone                            |            | 3          | 2          | 0          | 1          |
|  | PC23. attach disciplinary rules with the implementation                  |            | 2          | 1          | 1          | 0          |
|  | <b>Total</b>   |            | <b>71</b>  | <b>23</b>  | <b>33</b>  | <b>15</b>  |
|  | <b>Weightage %</b>   |            |            | <b>32%</b> | <b>47%</b> | <b>21%</b> |
| <b>7. TSC/ N9004<br/>(Comply with industry and organisational requirement)</b> | PC1. perform own duties effectively                                      | <b>39</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             |            | 3          | 1          | 1          | 1          |
|  | PC4. take initiative and innovate the existing methods                   |            | 4          | 1          | 2          | 1          |
|  | PC5. focus on self-learning and improvement                              |            | 3          | 1          | 1          | 1          |
|  | PC6. co-ordinate with all the team members and colleagues                |            | 3          | 1          | 2          | 0          |
|  | PC7. communicate politely  |            | 3          | 1          | 2          | 0          |
|  | PC8. avoid conflicts and miscommunication                                |            | 3          | 1          | 2          | 0          |
|  | PC9. know the organisational standards                                   |            | 2          | 1          | 1          | 0          |
|  | PC10. implement them in your performance                                 |            | 3          | 1          | 2          | 0          |
|  | PC11. motivate others to follow them                                     |            | 3          | 1          | 2          | 0          |
|  | PC12. know the industry standards  |            | 2          | 1          | 0          | 1          |
|  | PC13. align them with organisation standards                             |            | 2          | 0          | 2          | 0          |
|  | <b>Total</b>   |            | <b>39</b>  | <b>12</b>  | <b>21</b>  | <b>6</b>   |
| <b>Weightage %</b>   |  |            | <b>31%</b> | <b>54%</b> | <b>15%</b> |            |
| <b>Total</b>   |  | <b>254</b> | <b>63</b>  | <b>157</b> | <b>34</b>  |            |
| <b>Grand Total</b>   |  |            | <b>254</b> |            |            |            |