

## Qualification Pack



# Open-End Spinning Tenter

QP Code: TSC/Q0203

Version: 3.0

NSQF Level: 3

Textile Sector Skill Council || 14-H, 14th Floor, Hansalaya Building, 15, Barakhamba Road  
New Delhi - 110001

## Qualification Pack

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## TSC/Q0203: Open-End Spinning Tenter

### Brief Job Description

An open end spinning tenter is responsible for carrying out tenting activities. This activity ensures minimum machine stoppage and maximum production in an open end spinning machine. An open end spinning tenter should be able to creel the sliver cans, piece the sliver on breakage, doff the cone /cheese package and carry out cleaning and preventive maintenance activities thus producing defect free yarn. This job requires the individual to have thorough knowledge in process flow and material flow in a textile mill for yarn production and should be able to know the important functions and operations of an open end spinning machine.

### Personal Attributes

A open end spinning tenter should have good eyesight, hand-eye-leg coordination, motor skills and vision. He/she should also have good interpersonal skills.

### Applicable National Occupational Standards (NOS)

#### Compulsory NOS:

1. [TSC/N0209: Taking charge of shift and handing over shift to Open-End Spinning Tenter](#)
2. [TSC/N0210: Carryout creeling and piecing activities in Open-End Spinning](#)
3. [TSC/N0211: Carry out doffing activities in Open-End Spinning](#)
4. [TSC/N0212: Carryout cleaning and maintenance activities in Open-End Spinning](#)
5. [TSC/N9001: Maintain work area, tools, and machines](#)
6. [TSC/N9002: Working in a team](#)
7. [TSC/N9003: Maintain health, safety and security at workplace](#)
8. [TSC/N9004: Comply with industry and organizational requirement](#)
9. [DGT/VSQ/N0101: Employability Skills \(30 Hours\)](#)

### Qualification Pack (QP) Parameters

<b>Sector</b>	Textile
<b>Sub-Sector</b>	Spinning – Textiles

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<b>Occupation</b>	Spinning
<b>Country</b>	India
<b>NSQF Level</b>	3
<b>Credits</b>	13
<b>Aligned to NCO/ISCO/ISIC Code</b>	NCO-2015/8151.99
<b>Minimum Educational Qualification &amp; Experience</b>	9th Class (with No Experience (OR) Grade 8 pass and pursuing continuous schooling in regular school with vocational subject with no experience (OR) 8th grade pass with 1 year of relevant experience (OR) 5th grade pass with 4 years of relevant experience (OR) Ability to read and write with 5 years of experience)
<b>Minimum Level of Education for Training in School</b>	9th Class
<b>Pre-Requisite License or Training</b>	NA
<b>Minimum Job Entry Age</b>	18 Years
<b>Last Reviewed On</b>	NA
<b>Next Review Date</b>	25/11/2024
<b>NSQC Approval Date</b>	17/11/2022
<b>Version</b>	3.0
<b>Reference code on NQR</b>	2022/TEXT/TSC/07042
<b>NQR Version</b>	1.0

## Qualification Pack

# TSC/N0209: Taking charge of shift and handing over shift to Open-End Spinning Tenter

## Description

This unit is about taking charge of shift from previous shift Open-end spinning tenter and relieving the responsibilities to the next shift Open-end spinning tenter

## Scope

The scope covers the following :

- Taking charge of shift from Open-end spinning tenter, Handing over shift to Open-end spinning tenter

## Elements and Performance Criteria

### *Taking charge of shift from Open-end spinning tenter*

To be competent, the user/individual on the job must be able to:

- PC1.** come at least 10 - 15 minutes earlier to the work spot
- PC2.** bring the necessary operational tools to the department
- PC3.** meet the previous shift operator and discuss with him/ her regarding the issues faced by them with respect to the quality, production, spare, safety or any other specific instruction etc.
- PC4.** Understand the count produced, colour coding, followed in the open end spinning for his allocated number of spindles or machines
- PC5.** ensure the technical details are mentioned in the display board in the open end spinning machine
- PC6.** check for the availability of the carded or drawing sliver for creeling
- PC7.** check the availability of sliver cans with technical details mentioned regarding the hank / count being produced
- PC8.** check the yarn passage and OE yarn formation
- PC9.** check for the run outs, availability of sliver cans, ensure that all the rotors and drums are working properly, if not should be enquired, for the reason of idling and report to the superiors regarding the same
- PC10.** check the condition of all t running rotors and winding drums
- PC11.** ensure proper functioning of OE machine parts and machine
- PC12.** ensure that all allocated drums / rotors are running with uniform length of yarn on cone, variations if any should be discussed with operator and reported to superiors
- PC13.** check the condition of all winding drums, report to the superior if there is any damage
- PC14.** check the cleanliness of the machines & other work areas
- PC15.** check whether any spare/raw material/ tool / yarn / any other material are thrown under the machines or in the other work areas.
- PC16.** ensure the wastes collection boxes are empty
- PC17.** ensure the work spot is clean

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- PC18.** ensure the OHTC is working properly
- PC19.** question the previous shift operator for any deviation in the above and should bring the same to the knowledge of his/ her shift superior as well as that of the previous shift.
- PC20.** take over the shift in a proper manner from the outgoing shift operator

### *Handing over shift to Open-end spinning*

To be competent, the user/individual on the job must be able to:

- PC21.** ensure in providing the details regarding count produced, colour coding followed in the OE for his allocated number of spindles or machines
- PC22.** provide all relevant information regarding the count produced, idle drums, damaged machine parts if any
- PC23.** get clearance from the incoming counterpart before leaving the work spot
- PC24.** 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
- PC25.** ensure the shift has to be properly handed over to the incoming shift operator
- PC26.** report to his/ her shift superior about the quality / production / safety issues/ any other issue faced in his/ her shift and should leave the department only after getting concurrence for the same from his/ her superiors
- PC27.** collect the wastes from waste collection bags, weigh them and transport to storage area
- PC28.** ensure the work spot is clean

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard operating procedures (SOP) and regulations in a spinning / textile mill
- KU2.** safe working practices to be adopted in spinning / textile mill
- KU3.** quality systems and other processes practiced in the spinning / textile mill
- KU4.** reporting to the supervisor or higher authority in case of emergency
- KU5.** color coding adopted for different counts in the spinning / textile mill
- KU6.** understanding the importance of: types of fibres, types of yarn, yarn count, types of yarn defects
- KU7.** process flow in a spinning / textile mill
- KU8.** material flow in a spinning / textile mill
- KU9.** importance of mixing, count change
- KU10.** functions of different parts of OE machine
- KU11.** guidelines for operating the OE machine
- KU12.** functions of different signal lamps
- KU13.** guidelines for taking charge of shift from previous shift Open-end spinning tenter
- KU14.** knowledge of waste collection system & equipments used
- KU15.** importance of cleanliness at workplace
- KU16.** importance of material handling and types of material handling equipments Used
- KU17.** functions and methodology for operating different material handling equipments

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### Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** Write clear and short sentences
- GS2.** comprehend written instructions
- GS3.** communicate with supervisor appropriately
- GS4.** talk to others to convey information effectively
- GS5.** apply problem-solving approaches in different situations
- GS6.** refer anomalies to the supervisor
- GS7.** seek clarification on problems from others
- GS8.** apply good attention to detail
- GS9.** check your work is complete and free from errors
- GS10.** procedure to patrol around the OE machine
- GS11.** procedure to identify sliver breakage. yarn breakage, sliver exhaust
- GS12.** procedure for operating different material handling tools and equipments
- GS13.** procedure for patrolling around the OE department and identifying worn out or damaged machine parts
- GS14.** procedure to check the quality of sliver in sliver cans, OE yarn, proper functioning of machine parts in OE machine
- GS15.** maintain neatness at work place



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### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Taking charge of shift from Open-end spinning tenter</i>	<b>23</b>	<b>28</b>	-	<b>23</b>
<b>PC1.</b> come at least 10 - 15 minutes earlier to the work spot	-	-	-	-
<b>PC2.</b> bring the necessary operational tools to the department	-	-	-	-
<b>PC3.</b> meet the previous shift operator and discuss with him/ her regarding the issues faced by them with respect to the quality, production, spare, safety or any other specific instruction etc.	-	-	-	-
<b>PC4.</b> Understand the count produced, colour coding, followed in the open end spinning for his allocated number of spindles or machines	-	-	-	-
<b>PC5.</b> ensure the technical details are mentioned in the display board in the open end spinning machine	-	-	-	-
<b>PC6.</b> check for the availability of the carded or drawing sliver for creeling	-	-	-	-
<b>PC7.</b> check the availability of sliver cans with technical details mentioned regarding the hank / count being produced	-	-	-	-
<b>PC8.</b> check the yarn passage and OE yarn formation	-	-	-	-
<b>PC9.</b> check for the run outs, availability of sliver cans, ensure that all the rotors and drums are working properly, if not should be enquired, for the reason of idling and report to the superiors regarding the same	-	-	-	-
<b>PC10.</b> check the condition of all t running rotors and winding drums	-	-	-	-
<b>PC11.</b> ensure proper functioning of OE machine parts and machine	-	-	-	-
<b>PC12.</b> ensure that all allocated drums / rotors are running with uniform length of yarn on cone, variations if any should be discussed with operator and reported to superiors	-	-	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC13.</b> check the condition of all winding drums, report to the superior if there is any damage	-	-	-	-
<b>PC14.</b> check the cleanliness of the machines & other work areas	-	-	-	-
<b>PC15.</b> check whether any spare/raw material/ tool / yarn / any other material are thrown under the machines or in the other work areas.	-	-	-	-
<b>PC16.</b> ensure the wastes collection boxes are empty	-	-	-	-
<b>PC17.</b> ensure the work spot is clean	-	-	-	-
<b>PC18.</b> ensure the OHTC is working properly	-	-	-	-
<b>PC19.</b> question the previous shift operator for any deviation in the above and should bring the same to the knowledge of his/ her shift superior as well as that of the previous shift.	-	-	-	-
<b>PC20.</b> take over the shift in a proper manner from the outgoing shift operator	-	-	-	-
<i>Handing over shift to Open-end spinning</i>	<b>9</b>	<b>8</b>	-	<b>9</b>
<b>PC21.</b> ensure in providing the details regarding count produced, colour coding followed in the OE for his allocated number of spindles or machines	-	-	-	-
<b>PC22.</b> provide all relevant information regarding the count produced, idle drums, damaged machine parts if any	-	-	-	-
<b>PC23.</b> get clearance from the incoming counterpart before leaving the work spot	-	-	-	-
<b>PC24.</b> 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	-	-	-	-
<b>PC25.</b> ensure the shift has to be properly handed over to the incoming shift operator	-	-	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC26.</b> report to his/ her shift superior about the quality / production / safety issues/ any other issue faced in his/ her shift and should leave the department only after getting concurrence for the same from his/ her superiors	-	-	-	-
<b>PC27.</b> collect the wastes from waste collection bags, weigh them and transport to storage area	-	-	-	-
<b>PC28.</b> ensure the work spot is clean	-	-	-	-
<b>NOS Total</b>	<b>32</b>	<b>36</b>	-	<b>32</b>

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### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	TSC/N0209
<b>NOS Name</b>	Taking charge of shift and handing over shift to Open-End Spinning Tenter
<b>Sector</b>	Textile
<b>Sub-Sector</b>	Spinning - Textiles
<b>Occupation</b>	Pre Spinning Operations
<b>NSQF Level</b>	3
<b>Credits</b>	TBD
<b>Version</b>	2.0
<b>Last Reviewed Date</b>	25/11/2021
<b>Next Review Date</b>	25/11/2024
<b>NSQC Clearance Date</b>	17/11/2022

## Qualification Pack

# TSC/N0210: Carryout creeling and piecing activities in Open-End Spinning

## Description

This unit is about carrying out procedure for creeling the sliver and piecing the sliver and yarn in the event of end breakage

## Scope

The scope covers the following :

- attending the machine for creeling, creeling the sliver, attending the machine on sliver breakage, feeding / piecing the sliver to rotors, attending the breaks and knotting the yarn

## Elements and Performance Criteria

### *Attending the machine for creeling*

To be competent, the user/individual on the job must be able to:

- PC1.** understand the mixings, hanks and the colour codification used
- PC2.** bring the sliver cans from storage area
- PC3.** ensure correct colour coded sliver cans are taken to OE section for creeling
- PC4.** identify sliver exhausts and removing the empty sliver cans
- PC5.** ensure minimum time is taken for attending the sliver exhaust or can change

### *Creeling the sliver*

To be competent, the user/individual on the job must be able to:

- PC6.** ensure the correct hank of slivers cans are taken for creeling to OE department
- PC7.** follow proper color coding of sliver cans
- PC8.** creel the required number of cans in an organized manner
- PC9.** ensure proper feeding of sliver into the rotors
- PC10.** feed the slivers to the rotors
- PC11.** ensure the slivers are passed through rotors and yarns are taken out through guides and stop motions
- PC12.** ensure proper material handling of slivers and sliver cans

### *Attending the machine on sliver breakage*

To be competent, the user/individual on the job must be able to:

- PC13.** patrol in the OE machine work area and identify the sliver breakage by viewing in the signal lamps provided at each rotors
- PC14.** identify the reason for stoppage
- PC15.** ensure minimum time is taken for attending the breakage

### *Feeding / Piecing the sliver to rotors*

To be competent, the user/individual on the job must be able to:

- PC16.** ensure the slivers cans are properly and uniformly placed in the creel zone and at proper distance to avoid mix up

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- PC17.** ensure that the sliver passes through the rotors without affecting the quality of sliver
- PC18.** ensure proper length of sliver is available from sliver can to rotor tip
- PC19.** feed the sliver end to the rotor
- PC20.** piece the sliver between cans, in the event of sliver exhausting in the sliver can, replace with a full sliver can
- PC21.** ensure standard procedure is adopted for feeding the sliver in rotors
- PC22.** ensure minimum time is taken for piecing the sliver
- PC23.** keep the sliver waste in the respective waste collection box
- PC24.** segregate the reusable wastes and weigh and record them in a register
- PC25.** ensure safety and cleanliness at work place

### *Attending the breaks and knotting the yarn*

To be competent, the user/individual on the job must be able to:

- PC26.** patrol around the machine to ensure proper production of OE yarn
- PC27.** ensure minimum time is taken for attending the breaks
- PC28.** feed the sliver in the rotors
- PC29.** take the cheese package and identify defects if any
- PC30.** remove defects in the cheese package if any
- PC31.** lift the cheese package from the winding drum
- PC32.** unwind the broken yarn end from the cheese to the rotor section and start new yarn formation
- PC33.** ensure the yarn is formed with required twist
- PC34.** ensure proper material handling of sliver, cheese and yarn
- PC35.** follow proper procedure for piecing the yarn
- PC36.** while processing knotless yarn, broken ends are to be overlapped on the cone/cheese as instructed
- PC37.** ensure proper material handling of cheese and cone package
- PC38.** ensure proper yarn passage & tension variator position post knotting
- PC39.** follow standard procedure for operating material handling tools and knotting equipments
- PC40.** follow safety procedures while carrying out creeling and piecing activities
- PC41.** ensure cleanliness at work place

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard operating procedures (SOP) and regulations in a spinning / textile mill
- KU2.** safe working practices to be adopted in spinning / textile mill
- KU3.** quality systems and other processes practiced in the spinning / textile mill
- KU4.** reporting to the supervisor or higher authority in case of emergency
- KU5.** color coding adopted for different counts in the spinning / textile mill
- KU6.** understanding the importance of types of fibres, types of yarn, yarn count, importance of yarn quality, types of yarn defects

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- KU7.** process flow in a spinning / textile mill
- KU8.** material flow in a spinning / textile mill
- KU9.** functions of different parts of OE machine
- KU10.** importance of colour coding followed for different counts in spinning / textile mill
- KU11.** importance of creeling
- KU12.** importance of knotting
- KU13.** types of yarn defects
- KU14.** importance of attending breakages and knotting the yarn
- KU15.** guidelines for creeling the sliver and sliver can
- KU16.** guidelines for knotting / mending the yarn
- KU17.** knowledge of waste collection system & equipments used
- KU18.** importance of material handling
- KU19.** types of material handling equipments used
- KU20.** functions and methodology for operating different material handling equipments
- KU21.** understanding the functions of different signal lamps
- KU22.** importance of safety at workplace
- KU23.** importance of cleanliness at workplace

## Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** Write clear and short sentences
- GS2.** comprehend written instructions
- GS3.** communicate with supervisor appropriately
- GS4.** talk to others to convey information effectively
- GS5.** apply problem-solving approaches in different situations
- GS6.** refer anomalies to the supervisor
- GS7.** seek clarification on problems from others
- GS8.** apply good attention to detail
- GS9.** check your work is complete and free from errors
- GS10.** procedure for patrolling in the OE work area
- GS11.** patrol around the OE machine and identify sliver / yarn breakage and sliver exhaust
- GS12.** procedure for material handling of sliver, sliver can & cheese package
- GS13.** standard operating procedure for creeling the sliver
- GS14.** standard operating procedure for knotting / mending for yarn formation
- GS15.** procedure for removing the damages in cheese package
- GS16.** procedure for operating different material handling tools and equipments
- GS17.** maintain neatness at work place

## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Attending the machine for creeling</i>	<b>5</b>	<b>8</b>	-	<b>5</b>
<b>PC1.</b> understand the mixings, hanks and the colour codification used	-	-	-	-
<b>PC2.</b> bring the sliver cans from storage area	-	-	-	-
<b>PC3.</b> ensure correct colour coded sliver cans are taken to OE section for creeling	-	-	-	-
<b>PC4.</b> identify sliver exhausts and removing the empty sliver cans	-	-	-	-
<b>PC5.</b> ensure minimum time is taken for attending the sliver exhaust or can change	-	-	-	-
<i>Creeling the sliver</i>	<b>8</b>	<b>12</b>	-	<b>7</b>
<b>PC6.</b> ensure the correct hank of slivers cans are taken for creeling to OE department	-	-	-	-
<b>PC7.</b> follow proper color coding of sliver cans	-	-	-	-
<b>PC8.</b> creel the required number of cans in an organized manner	-	-	-	-
<b>PC9.</b> ensure proper feeding of sliver into the rotors	-	-	-	-
<b>PC10.</b> feed the slivers to the rotors	-	-	-	-
<b>PC11.</b> ensure the slivers are passed through rotors and yarns are taken out through guides and stop motions	-	-	-	-
<b>PC12.</b> ensure proper material handling of slivers and sliver cans	-	-	-	-
<i>Attending the machine on sliver breakage</i>	<b>3</b>	<b>5</b>	-	<b>3</b>
<b>PC13.</b> patrol in the OE machine work area and identify the sliver breakage by viewing in the signal lamps provided at each rotors	-	-	-	-
<b>PC14.</b> identify the reason for stoppage	-	-	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC15.</b> ensure minimum time is taken for attending the breakage	-	-	-	-
<i>Feeding / Piecing the sliver to rotors</i>	<b>11</b>	<b>17</b>	-	<b>10</b>
<b>PC16.</b> ensure the slivers cans are properly and uniformly placed in the creel zone and at proper distance to avoid mix up	-	-	-	-
<b>PC17.</b> ensure that the sliver passes through the rotors without affecting the quality of sliver	-	-	-	-
<b>PC18.</b> ensure proper length of sliver is available from sliver can to rotor tip	-	-	-	-
<b>PC19.</b> feed the sliver end to the rotor	-	-	-	-
<b>PC20.</b> piece the sliver between cans, in the event of sliver exhausting in the sliver can, replace with a full sliver can	-	-	-	-
<b>PC21.</b> ensure standard procedure is adopted for feeding the sliver in rotors	-	-	-	-
<b>PC22.</b> ensure minimum time is taken for piecing the sliver	-	-	-	-
<b>PC23.</b> keep the sliver waste in the respective waste collection box	-	-	-	-
<b>PC24.</b> segregate the reusable wastes and weigh and record them in a register	-	-	-	-
<b>PC25.</b> ensure safety and cleanliness at work place	-	-	-	-
<i>Attending the breaks and knotting the yarn</i>	<b>16</b>	<b>24</b>	-	<b>16</b>
<b>PC26.</b> patrol around the machine to ensure proper production of OE yarn	-	-	-	-
<b>PC27.</b> ensure minimum time is taken for attending the breaks	-	-	-	-
<b>PC28.</b> feed the sliver in the rotors	-	-	-	-
<b>PC29.</b> take the cheese package and identify defects if any	-	-	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC30.</b> remove defects in the cheese package if any	-	-	-	-
<b>PC31.</b> lift the cheese package from the winding drum	-	-	-	-
<b>PC32.</b> unwind the broken yarn end from the cheese to the rotor section and start new yarn formation	-	-	-	-
<b>PC33.</b> ensure the yarn is formed with required twist	-	-	-	-
<b>PC34.</b> ensure proper material handling of sliver, cheese and yarn	-	-	-	-
<b>PC35.</b> follow proper procedure for piecing the yarn	-	-	-	-
<b>PC36.</b> while processing knotless yarn, broken ends are to be overlapped on the cone/cheese as instructed	-	-	-	-
<b>PC37.</b> ensure proper material handling of cheese and cone package	-	-	-	-
<b>PC38.</b> ensure proper yarn passage & tension variator position post knotting	-	-	-	-
<b>PC39.</b> follow standard procedure for operating material handing tools and knotting equipments	-	-	-	-
<b>PC40.</b> follow safety procedures while carrying out creeling and piecing activities	-	-	-	-
<b>PC41.</b> ensure cleanliness at work place	-	-	-	-
<b>NOS Total</b>	<b>43</b>	<b>66</b>	<b>-</b>	<b>41</b>

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### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	TSC/N0210
<b>NOS Name</b>	Carryout creeling and piecing activities in Open-End Spinning
<b>Sector</b>	Textile
<b>Sub-Sector</b>	Spinning - Textiles
<b>Occupation</b>	Spinning
<b>NSQF Level</b>	3
<b>Credits</b>	TBD
<b>Version</b>	2.0
<b>Last Reviewed Date</b>	25/11/2021
<b>Next Review Date</b>	25/11/2024
<b>NSQF Clearance Date</b>	17/11/2022

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### TSC/N0211: Carry out doffing activities in Open-End Spinning

#### Description

This unit is about carrying out the doffing activities in an OE machine

#### Scope

The scope covers the following :

- identify the machine for carrying out doffing activity, doffing the cheese package, weigh and store the cheese package, restart the machine after doffing

#### Elements and Performance Criteria

##### *Identify the machine for carrying out doffing*

To be competent, the user/individual on the job must be able to:

- PC1.** follow the plan as instructed by superior for performing doffing activities at various machines in OE department
- PC2.** identify which machine is ready for doffing
- PC3.** ensure minimum time is taken for identifying the machine to carryout doffing activity
- PC4.** ensure in confirming the machine with the superiors for carrying out doffing activity

##### *Doffing the cheese package*

To be competent, the user/individual on the job must be able to:

- PC5.** check that the cheese package is fully wound to the predetermined length or weight and start doffing
- PC6.** remove full cheese package from cone holder
- PC7.** keep doffed cheese package in the peg trolley
- PC8.** either stop the machine for doffing or doff the cone package while the machine is running as per the instructions of the supervisor
- PC9.** ensure proper procedure is adopted for doffing the cheese package
- PC10.** ensure proper material handling of cheese package
- PC11.** ensure safety while carrying out doffing activity

##### *Weigh and store the cheese package*

To be competent, the user/individual on the job must be able to:

- PC12.** weigh the cheese package and ensure the required weight have been achieved
- PC13.** fix the cheese in the cheese holder and run it again till the cheese reaches the predetermined weight as instructed by superiors
- PC14.** place the cheese in the cheese trolley and store in the storage area as instructed
- PC15.** keep empty paper cheese ready in the reserve area for doffing

##### *Restart the machine after doffing*

To be competent, the user/individual on the job must be able to:

- PC16.** insert the empty cheese into the cheese holder after doffing

## Qualification Pack

- PC17.** ensure that proper colour coded empty paper cone is mounted in holder
- PC18.** follow the instructions of the superiors for count change
- PC19.** ensure proper passage of yarn in OE machine
- PC20.** ensure that all the rotors are running, and piece the ends once machine is restarted
- PC21.** remove all the wastes and store it count wise in the waste collection box

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard operating procedures (SOP) and regulations in a spinning / textile mill
- KU2.** safe working practices to be adopted in spinning / textile mill
- KU3.** quality systems and other processes practiced in the spinning / textile mill
- KU4.** reporting to the supervisor or higher authority in case of emergency
- KU5.** color coding adopted for different counts in the spinning / textile mill
- KU6.** process flow and material flow in a spinning / textile mill
- KU7.** understand the types of roving defects and reason for roving breakage
- KU8.** functions of different parts of an OE machine
- KU9.** functions of different signal lamps and control buttons
- KU10.** knowledge about the schedule for carrying out doffing activity
- KU11.** various type of yarn defects
- KU12.** importance of doffing
- KU13.** importance of material handling
- KU14.** various tools and equipments used for doffing
- KU15.** guidelines for carrying out doffing activity
- KU16.** knowledge of waste collection system & material handling equipments used
- KU17.** safety procedures to be followed in an OE machine
- KU18.** importance of cleanliness and safety at work place

## Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** Write clear and short sentences
- GS2.** comprehend written instructions
- GS3.** communicate with supervisor appropriately
- GS4.** talk to others to convey information effectively
- GS5.** standard operating procedure for carrying out doffing activity
- GS6.** procedure to inspect the cheese package and identify defects in cheese
- GS7.** procedure to identify the cone defects
- GS8.** procedure for handling of cone and cone trolley
- GS9.** procedure for disposing the waste.



**GS10.** maintain neatness at work place

## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Identify the machine for carrying out doffing</i>	<b>5</b>	<b>7</b>	-	<b>6</b>
<b>PC1.</b> follow the plan as instructed by superior for performing doffing activities at various machines in OE department	-	-	-	-
<b>PC2.</b> identify which machine is ready for doffing	-	-	-	-
<b>PC3.</b> ensure minimum time is taken for identifying the machine to carryout doffing activity	-	-	-	-
<b>PC4.</b> ensure in confirming the machine with the superiors for carrying out doffing activity	-	-	-	-
<i>Doffing the cheese package</i>	<b>11</b>	<b>17</b>	-	<b>7</b>
<b>PC5.</b> check that the cheese package is fully would to the predetermined length or weight and start doffing	-	-	-	-
<b>PC6.</b> remove full cheese package from cone holder	-	-	-	-
<b>PC7.</b> keep doffed cheese package in the peg trolley	-	-	-	-
<b>PC8.</b> either stop the machine for doffing or doff the cone package while the machine is running as per the instructions of the supervisor	-	-	-	-
<b>PC9.</b> ensure proper procedure is adopted for doffing the cheese package	-	-	-	-
<b>PC10.</b> ensure proper material handling of cheese package	-	-	-	-
<b>PC11.</b> ensure safety while carrying out doffing activity	-	-	-	-
<i>Weigh and store the cheese package</i>	<b>5</b>	<b>8</b>	-	<b>4</b>
<b>PC12.</b> weigh the cheese package and ensure the required weight have been achieved	-	-	-	-



### Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC13.</b> fix the cheese in the cheese holder and run it again till the cheese reaches the predetermined weight as instructed by superiors	-	-	-	-
<b>PC14.</b> place the cheese in the cheese trolley and store in the storage area as instructed	-	-	-	-
<b>PC15.</b> keep empty paper cheese ready in the reserve area for doffing	-	-	-	-
<i>Restart the machine after doffing</i>	<b>10</b>	<b>14</b>	-	<b>6</b>
<b>PC16.</b> insert the empty cheese into the cheese holder after doffing	-	-	-	-
<b>PC17.</b> ensure that proper colour coded empty paper cone is mounted in holder	-	-	-	-
<b>PC18.</b> follow the instructions of the superiors for count change	-	-	-	-
<b>PC19.</b> ensure proper passage of yarn in OE machine	-	-	-	-
<b>PC20.</b> ensure that all the rotors are running, and piece the ends once machine is restarted	-	-	-	-
<b>PC21.</b> remove all the wastes and store it count wise in the waste collection box	-	-	-	-
<b>NOS Total</b>	<b>31</b>	<b>46</b>	-	<b>23</b>

## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	TSC/N0211
<b>NOS Name</b>	Carry out doffing activities in Open-End Spinning
<b>Sector</b>	Textile
<b>Sub-Sector</b>	Spinning - Textiles
<b>Occupation</b>	Spinning
<b>NSQF Level</b>	3
<b>Credits</b>	TBD
<b>Version</b>	2.0
<b>Last Reviewed Date</b>	25/11/2021
<b>Next Review Date</b>	25/11/2024
<b>NSQC Clearance Date</b>	17/11/2022

## Qualification Pack

# TSC/N0212: Carryout cleaning and maintenance activities in Open-End Spinning

## Description

This unit is about carrying out the cleaning and maintenance activities on an open end spinning machine

## Scope

The scope covers the following :

- carryout cleaning & maintenance activities, carryout preventive maintenance activities, other tenting responsibilities

## Elements and Performance Criteria

### *Carry out cleaning & maintenance activities*

To be competent, the user/individual on the job must be able to:

- PC1.** schedule the cleaning and maintenance activities
- PC2.** carry out cleaning and maintenance activities
- PC3.** clean the creeling area
- PC4.** ensure cleanliness in the yarn passage
- PC5.** clean the rotor at regular intervals
- PC6.** failure of stop motion, breakdown should be reported to superiors immediately
- PC7.** ensure proper cleaning of different mechanisms in OE machine
- PC8.**
  - dispose the sliver wastes & yarn waste in the waste collection pocket provided to each tenter
  - and finally disposing in the waste collection box
- PC9.** remove the cleaned wastes and store in separate area
- PC10.** clean the alley around the OE machine using proper cleaning equipments
- PC11.**
  - ensure the wastes collected from different parts of machine are deposited in the respective
  - dustbins
- PC12.** ensure the OE department is neat and clean

### *Carry out preventive maintenance activities*

To be competent, the user/individual on the job must be able to:

- PC13.** ensure proper functioning of machine
- PC14.** check and verify the quality of different machine parts
- PC15.** ensure taking care of yarn passage, rotors, guides, winding drums
- PC16.** support fitter in removing the worn-out parts and replace them with new parts in OE machine
- PC17.** oil different parts of OE machine on need basis
- PC18.** check OHTC air blowing
- PC19.** check bottom apron, top apron, spacer etc.
- PC20.** check for damaged bobbins and discard them

## Qualification Pack

- PC21.** • report to the supervisor and maintenance fitter if any problem is noticed in smooth functioning of machine
- PC22.** ensure the OHTC is working
- PC23.** carry out preventive maintenance activities at the specified intervals

### *Other tenting responsibilities*

To be competent, the user/individual on the job must be able to:

- PC24.** • during count change check the count board for cheese colour, cone tip colour and any other given instructions
- PC25.** record the production details in the production report
- PC26.** report to the supervisor in case of emergency stoppage of machine
- PC27.** • report to the supervisor and maintenance in charge if the operator was able to replace the worn-out machine part with a new one
- PC28.** support the maintenance team while machine is under maintenance
- PC29.** ensure all details related to production are provided to the next shift operator while relieving
- PC30.** ensure count wise storage of damaged cheese in a separate area

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard operating procedures (SOP) and regulations in a spinning / textile mill
- KU2.** safe working practices to be adopted
- KU3.** quality systems and other processes practiced in the spinning / textile mill
- KU4.** report to the supervisor or higher authority in case of emergency
- KU5.** process flow and material flow in a spinning / textile mill
- KU6.** functions of various parts of an OE machine
- KU7.** importance of yarn quality
- KU8.** importance of machine cleaning
- KU9.** schedule for machine cleaning
- KU10.** types and functions of various cleaning tools and equipments
- KU11.** guidelines for cleaning various part of OE machine
- KU12.** operational schedule for cleaning different parts of an OE machine
- KU13.** guidelines for carrying out routine preventive maintenance activities
- KU14.** types of end breaks and reason for end breaks
- KU15.** knowledge of the types of oil used for preventive maintenance
- KU16.** knowledge of the safety precautions to be followed in an open end spinning department

## Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** Write clear and short sentences

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- GS2.** comprehend written instructions
- GS3.** communicate with supervisor appropriately
- GS4.** talk to others to convey information effectively
- GS5.** procedure for operating various cleaning tools and equipments
- GS6.** procedure for cleaning the creeling area
- GS7.** procedure for cleaning different mechanisms in OE machine
- GS8.** procedure for proper material handling of cleaning equipments and maintenance tools
- GS9.** procedure to identify and remove worn out parts in OE machine
- GS10.** procedure to replace the worn-out part/parts with new machine part/parts
- GS11.** procedure for carrying out preventive maintenance activities
- GS12.** procedure for oiling various parts of OE machine
- GS13.** maintain neatness at work place

## Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Carry out cleaning &amp; maintenance activities</i>	<b>12</b>	<b>15</b>	-	<b>13</b>
<b>PC1.</b> schedule the cleaning and maintenance activities	-	-	-	-
<b>PC2.</b> carry out cleaning and maintenance activities	-	-	-	-
<b>PC3.</b> clean the creeling area	-	-	-	-
<b>PC4.</b> ensure cleanliness in the yarn passage	-	-	-	-
<b>PC5.</b> clean the rotor at regular intervals	-	-	-	-
<b>PC6.</b> failure of stop motion, breakdown should be reported to superiors immediately	-	-	-	-
<b>PC7.</b> ensure proper cleaning of different mechanisms in OE machine	-	-	-	-
<b>PC8.</b> • dispose the sliver wastes & yarn waste in the waste collection pocket provided to each tenter • and finally disposing in the waste collection box	-	-	-	-
<b>PC9.</b> remove the cleaned wastes and store in separate area	-	-	-	-
<b>PC10.</b> clean the alley around the OE machine using proper cleaning equipments	-	-	-	-
<b>PC11.</b> • ensure the wastes collected from different parts of machine are deposited in the respective • dustbins	-	-	-	-
<b>PC12.</b> ensure the OE department is neat and clean	-	-	-	-
<i>Carry out preventive maintenance activities</i>	<b>11</b>	<b>15</b>	-	<b>9</b>
<b>PC13.</b> ensure proper functioning of machine	-	-	-	-
<b>PC14.</b> check and verify the quality of different machine parts	-	-	-	-

### Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC15.</b> ensure taking care of yarn passage, rotors, guides, winding drums	-	-	-	-
<b>PC16.</b> support fitter in removing the worn-out parts and replace them with new parts in OE machine	-	-	-	-
<b>PC17.</b> oil different parts of OE machine on need basis	-	-	-	-
<b>PC18.</b> check OHTC air blowing	-	-	-	-
<b>PC19.</b> check bottom apron, top apron, spacer etc.	-	-	-	-
<b>PC20.</b> check for damaged bobbins and discard them	-	-	-	-
<b>PC21.</b> <ul style="list-style-type: none"> <li>report to the supervisor and maintenance fitter if any problem is noticed in smooth functioning of machine</li> </ul>	-	-	-	-
<b>PC22.</b> ensure the OHTC is working	-	-	-	-
<b>PC23.</b> carry out preventive maintenance activities at the specified intervals	-	-	-	-
<i>Other tenting responsibilities</i>	<b>7</b>	<b>9</b>	-	<b>9</b>
<b>PC24.</b> <ul style="list-style-type: none"> <li>during count change check the count board for cheese colour, cone tip colour and any other given instructions</li> </ul>	-	-	-	-
<b>PC25.</b> record the production details in the production report	-	-	-	-
<b>PC26.</b> report to the supervisor in case of emergency stoppage of machine	-	-	-	-
<b>PC27.</b> <ul style="list-style-type: none"> <li>report to the supervisor and maintenance in charge if the operator was able to replace the worn-out machine part with a new one</li> </ul>	-	-	-	-
<b>PC28.</b> support the maintenance team while machine is under maintenance	-	-	-	-



### Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC29.</b> ensure all details related to production are provided to the next shift operator while relieving	-	-	-	-
<b>PC30.</b> ensure count wise storage of damaged cheese in a separate area	-	-	-	-
<b>NOS Total</b>	<b>30</b>	<b>39</b>	-	<b>31</b>

## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	TSC/N0212
<b>NOS Name</b>	Carryout cleaning and maintenance activities in Open-End Spinning
<b>Sector</b>	Textile
<b>Sub-Sector</b>	Spinning - Textiles
<b>Occupation</b>	Spinning
<b>NSQF Level</b>	3
<b>Credits</b>	TBD
<b>Version</b>	2.0
<b>Last Reviewed Date</b>	25/11/2021
<b>Next Review Date</b>	25/11/2024
<b>NSQC Clearance Date</b>	17/11/2022

## Qualification Pack

### TSC/N9001: Maintain work area, tools, and machines

#### Description

This unit provides performance criteria, knowledge & understanding and skills & abilities required to organise/ maintain work areas and activities to ensure tools and machines are maintained as per norms

#### Scope

The scope covers the following :

- Maintaining the work area, tools and machines

#### Elements and Performance Criteria

##### *Maintaining the work area, tools and machines*

To be competent, the user/individual on the job 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 ones 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 (KU)

The individual on the job needs to know and understand:

- KU1.** personal hygiene and duty of care
- KU2.** safe working practices and organisational standard operating procedures
- KU3.** limits of your own responsibility
- KU4.** ways of resolving problems within the work area
- KU5.** the production process and the specific work activities that relate to the whole process
- KU6.** the importance of effective communication with supervisors
- KU7.** the lines of communication, authority and reporting procedures

## Qualification Pack

- KU8.** the organisation's rules, codes and guidelines (including timekeeping)
- KU9.** the company's quality standards
- KU10.** the importance of complying with written instructions
- KU11.** equipment operating procedures / supervisor's instructions
- KU12.** work instructions and specifications and interpret them accurately
- KU13.** relation between work role and the overall manufacturing process
- KU14.** hazards likely to be encountered when conducting routine maintenance
- KU15.** the importance of taking action when problems are identified
- KU16.** different ways of minimising waste
- KU17.** the importance of running maintenance and regular cleaning
- KU18.** effects of contamination on products i.e. machine oil, dirt, foreign materials
- KU19.** common faults with equipment and the method to rectify
- KU20.** maintenance procedures
- KU21.** different types of cleaning equipment and substances and their use
- KU22.** safe working practices for cleaning and the method of carrying them out

## Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** comprehend written instructions
- GS2.** read any application sent by other colleagues
- GS3.** Communicate effectively in local language
- GS4.** communicate with supervisor appropriately
- GS5.** talk to others to convey information effectively
- GS6.** identify the real reason of problem faced
- GS7.** apply problem-solving approaches in different situations
- GS8.** refer anomalies to the supervisor
- GS9.** seek clarification on problems from others
- GS10.** apply good attention to detail
- GS11.** check your work is complete and free from errors
- GS12.** make sure every kind of communication is error free
- GS13.** communicate effectively
- GS14.** apply leadership skills wherever required
- GS15.** take initiative at the right place
- GS16.** understand the requirement to be creative

## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Maintaining the work area, tools and machines</i>	<b>17</b>	<b>20</b>	-	<b>13</b>
1. handle materials, machinery, equipment and tools with care and use them in the correct way	2	2	-	1
2. use correct lifting and handling procedures	1	2	-	1
3. use materials to minimize waste	2	1	-	1
4. maintain a clean and hazard free working area	1	1	-	1
5. maintain tools and equipment	2	1	-	1
6. carry out running maintenance within agreed schedules	1	2	-	1
7. carry out maintenance and/or cleaning within ones responsibility	1	2	-	1
8. report unsafe equipment and other dangerous occurrences	1	2	-	-
9. ensure that the correct machine guards are in place	1	1	-	1
10. work in a comfortable position with the correct posture	1	1	-	1
11. use cleaning equipment and methods appropriate for the work to be carried out	1	1	-	1
12. dispose of waste safely in the designated location	1	2	-	1
13. store cleaning equipment safely after use	1	1	-	1
14. carry out cleaning according to schedules and limits of responsibility	1	1	-	1
<b>NOS Total</b>	<b>17</b>	<b>20</b>	-	<b>13</b>

## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	TSC/N9001
<b>NOS Name</b>	Maintain work area, tools, and machines
<b>Sector</b>	Textile
<b>Sub-Sector</b>	Spinning, Weaving, Processing, Knitting
<b>Occupation</b>	Textile Mill sector - Cotton
<b>NSQF Level</b>	3
<b>Credits</b>	TBD
<b>Version</b>	3.0
<b>Last Reviewed Date</b>	27/01/2022
<b>Next Review Date</b>	31/03/2025
<b>NSQF Clearance Date</b>	17/11/2022

## Qualification Pack

### TSC/N9002: Working in a team

#### Description

This unit is about working as a team member in the textile industry

#### Scope

The scope covers the following :

- commitment and trust
- communication
- adaptability
- creative freedom

#### Elements and Performance Criteria

##### *Commitment and trust*

To be competent, the user/individual on the job 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*

To be competent, the user/individual on the job must be able to:

4. properly communicate about company policies
5. report all problems faced during the process
6. talk politely with other team members and colleagues
7. submit daily report of own performance

##### *Adaptability*

To be competent, the user/individual on the job must be able to:

8. adjust in different work situations
9. give due importance to other's point of view
10. avoid conflicting situations

##### *Creative freedom*

To be competent, the user/individual on the job must be able to:

11. develop new ideas for work procedures
12. improve upon the existing techniques to increase process efficiency

#### Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard operating procedures (SOP) and regulations in a textile mill  
**KU2.** procedure followed to get the final output in the mill



## Qualification Pack

- KU3.** safe working practices to be adopted in textile mill
- KU4.** reporting to the supervisor or higher authority about any grievances faced
- KU5.** the importance of the previous and next step of the process
- KU6.** process flow in a textile mill and the concerned workers
- KU7.** material flow in a textile mill and the required person
- KU8.** functions of different parts of the machine
- KU9.** tools and equipments used
- KU10.** guidelines for operating the machine
- KU11.** safety procedures to be followed in the machine

## Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** write clear and short sentences
- GS2.** write daily work report
- GS3.** write grievance complaint application
- GS4.** comprehend written instructions
- GS5.** read any application sent by other colleagues
- GS6.** communicate with supervisor appropriately
- GS7.** talk to co-workers to convey information effectively
- GS8.** identify the real reason of problem faced
- GS9.** be able to find the most effective solution to the problems faced
- GS10.** apply good attention to detail
- GS11.** ensure every kind of communication is error free
- GS12.** communicate effectively
- GS13.** apply leadership skills wherever required
- GS14.** take initiative at the right place
- GS15.** understand the requirement to be creative

## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Commitment and trust</i>	<b>5</b>	<b>4</b>	-	<b>2</b>
1. be accountable to the own role in whole process	2	1	-	1
2. perform all roles with full responsibility	2	1	-	1
3. be effective and efficient at workplace	1	2	-	-
<i>Communication</i>	<b>6</b>	<b>7</b>	-	<b>4</b>
4. properly communicate about company policies	1	2	-	1
5. report all problems faced during the process	1	2	-	1
6. talk politely with other team members and colleagues	2	1	-	1
7. submit daily report of own performance	2	2	-	1
<i>Adaptability</i>	<b>5</b>	<b>4</b>	-	<b>3</b>
8. adjust in different work situations	1	1	-	1
9. give due importance to other's point of view	2	1	-	1
10. avoid conflicting situations	2	2	-	1
<i>Creative freedom</i>	<b>3</b>	<b>5</b>	-	<b>2</b>
11. develop new ideas for work procedures	1	3	-	1
12. improve upon the existing techniques to increase process efficiency	2	2	-	1
<b>NOS Total</b>	<b>19</b>	<b>20</b>	-	<b>11</b>

## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	TSC/N9002
<b>NOS Name</b>	Working in a team
<b>Sector</b>	Textile
<b>Sub-Sector</b>	Spinning, Weaving, Processing, Knitting
<b>Occupation</b>	Textile Mill sector - Cotton
<b>NSQF Level</b>	3
<b>Credits</b>	TBD
<b>Version</b>	6.0
<b>Last Reviewed Date</b>	27/01/2022
<b>Next Review Date</b>	31/03/2025
<b>NSQC Clearance Date</b>	17/11/2022

## Qualification Pack

### TSC/N9003: Maintain health, safety and security at workplace

#### 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

The scope covers the following :

- comply with health, safety and security requirements at work
- Recognizing the hazards
- Planning the safety techniques
- Implementing the programs

#### Elements and Performance Criteria

##### *Comply with health, Safety and security requirements at work*

To be competent, the user/individual on the job 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, the user/individual on the job must be able to:

## Qualification Pack

19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry
20. recognise other possible security issues existing in the workplace

### *Planning the safety techniques Implementing the programs*

To be competent, the user/individual on the job must be able to:

21. recognise different measures to curb the hazards
22. communicate the safety plan to everyone
23. attach disciplinary rules with the implementation

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard operating procedures (SOP) and regulations in a textile mill
- KU2.** safe working practices to be adopted in textile mill
- KU3.** quality systems and other processes practiced in the textile mill
- KU4.** health and safety related practices applicable at the workplace
- KU5.** potential hazards, risks and threats based on nature of operations
- KU6.** organizational procedures for safe handling of equipment and machine operations
- KU7.** potential risks due to own actions and methods to minimize these
- KU8.** environmental management system related procedures at the workplace
- KU9.** layout of the plant and details of emergency exits, escape routes, emergency equipment and assembly points
- KU10.** potential accidents and emergencies and response to these scenarios
- KU11.** reporting protocol and documentation required
- KU12.** details of personnel trained in first aid, fire-fighting and emergency response
- KU13.** actions to take in the event of a mock drills/ evacuation procedures or actual accident, emergency or fire
- KU14.** occupational health and safety risks and methods
- KU15.** personal protective equipment and method of use
- KU16.** identification, handling and storage of hazardous substances
- KU17.** proper disposal system for waste and by-products
- KU18.** signage related to health and safety and their meaning
- KU19.** importance of sound health, hygiene and good habits
- KU20.** ill-effects of alcohol, tobacco and drugs

## Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** write clear and short sentences
- GS2.** read and understand the company instructions

## Qualification Pack

- GS3.** read and understand work instructions
- GS4.** read and understand the safety guidelines
- GS5.** listen to others attentively
- GS6.** respond to emergencies, accidents or fire at the workplace
- GS7.** evacuate the premises and help others in need while doing so
- GS8.** the value of physical fitness, personal hygiene and good habits
- GS9.** talk with others politely
- GS10.** identify correct safety measure for particular hazard
- GS11.** make required safety plans as and when required
- GS12.** raise alarm in case of emergency
- GS13.** know the use of correct safety measure whenever required
- GS14.** be attentive to details
- GS15.** be careful to avoid occurrence of hazards
- GS16.** maintenance of neatness at work
- GS17.** procedure for reporting unwanted behavior

## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Comply with health, Safety and security requirements at work</i>	<b>27</b>	<b>35</b>	-	<b>23</b>
1. comply with health and safety related instructions applicable to the workplace	2	2	-	2
2. use and maintain personal protective equipment such as ear plug, nose mask , head cap etc., as per protocol	2	2	-	2
3. carry out own activities in line with approved guidelines and procedures	2	2	-	2
4. maintain a healthy lifestyle and guard against dependency on intoxicants	2	2	-	2
5. follow environment management system related procedures	2	2	-	2
6. identify and correct (if possible) malfunctions in machinery and equipment	2	2	-	1
7. report any service malfunctions that cannot be rectified	2	2	-	1
8. store materials and equipment in line with organisational requirements	2	2	-	1
9. safely handle and remove waste	2	2	-	1
10. minimize health and safety risks to self and others due to own actions	1	2	-	1
11. seek clarifications, from supervisors or other authorized personnel in case of perceived risks	1	2	-	2
12. monitor the workplace and work processes for potential risks and threat	1	2	-	1
13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned	1	2	-	1
14. report hazards and potential risks/ threats to supervisors or other authorized personnel	1	2	-	1

### Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
15. participate in mock drills/ evacuation procedures organized at the workplace	1	2	-	-
16. undertake first aid, fire-fighting and emergency response training, if asked to do so	1	2	-	1
17. take action based on instructions in the event of fire, emergencies or accidents	1	2	-	1
18. follow organisation procedures for shutdown and evacuation when required	1	1	-	1
<i>Recognizing the hazards</i>	<b>2</b>	<b>2</b>	-	<b>2</b>
19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry	1	1	-	1
20. recognise other possible security issues existing in the workplace	1	1	-	1
<i>Planning the safety techniques Implementing the programs</i>	<b>3</b>	<b>3</b>	-	<b>3</b>
21. recognise different measures to curb the hazards	1	1	-	1
22. communicate the safety plan to everyone	1	1	-	1
23. attach disciplinary rules with the implementation	1	1	-	1
<b>NOS Total</b>	<b>32</b>	<b>40</b>	-	<b>28</b>



## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	TSC/N9003
<b>NOS Name</b>	Maintain health, safety and security at workplace
<b>Sector</b>	Textile
<b>Sub-Sector</b>	Spinning, Weaving, Processing, Knitting
<b>Occupation</b>	Textile Mill sector - Cotton
<b>NSQF Level</b>	3
<b>Credits</b>	TBD
<b>Version</b>	5.0
<b>Last Reviewed Date</b>	27/01/2022
<b>Next Review Date</b>	31/03/2025
<b>NSQC Clearance Date</b>	17/11/2022

## Qualification Pack

### TSC/N9004: Comply with industry and organizational requirement

#### Description

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

#### Scope

The scope covers the following :

- self development
- team work
- organizational standards
- industry standards

#### Elements and Performance Criteria

##### *Self development*

To be competent, the user/individual on the job 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*

To be competent, the user/individual on the job must be able to:

6. co-ordinate with all the team members and colleagues
7. communicate politely
8. avoid conflicts and miscommunication

##### *Organisational standards*

To be competent, the user/individual on the job must be able to:

9. know the organisational standards
10. implement them in your performance
11. motivate others to follow them

##### *Industry standards*

To be competent, the user/individual on the job must be able to:

12. monitor the workplace and work processes for potential risks and threat
13. align them with organisation standards

#### Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

## Qualification Pack

- KU1.** standard operating procedures (SOP) and regulations in a textile mill
- KU2.** reporting to the supervisor or higher authority
- KU3.** knowledge of organisational standards
- KU4.** knowledge of industry standards
- KU5.** process and material flow in a textile mill
- KU6.** importance of complying with the standards
- KU7.** guidelines for cleaning the various parts of machine

### Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** write clear and short sentences
- GS2.** read the given instructions
- GS3.** comprehend written instructions
- GS4.** talk effectively with others
- GS5.** put forward your point
- GS6.** listen to others
- GS7.** Organizational requirements
- GS8.** your responsibilities at the workplace
- GS9.** procedure to comply with the industry standards

## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Self development</i>	<b>5</b>	<b>9</b>	-	<b>7</b>
1. perform own duties effectively	1	2	-	2
2. take responsibility for own actions	1	2	-	2
3. be accountable towards the job role and assigned duties	1	2	-	1
4. take initiative and innovate the existing methods	1	1	-	1
5. focus on self-learning and improvement	1	2	-	1
<i>Team work</i>	<b>3</b>	<b>5</b>	-	<b>4</b>
6. co-ordinate with all the team members and colleagues	1	2	-	1
7. communicate politely	1	1	-	2
8. avoid conflicts and miscommunication	1	2	-	1
<i>Organisational standards</i>	<b>3</b>	<b>4</b>	-	<b>3</b>
9. know the organisational standards	1	1	-	1
10. implement them in your performance	1	2	-	1
11. motivate others to follow them	1	1	-	1
<i>Industry standards</i>	<b>4</b>	<b>2</b>	-	<b>1</b>
12. monitor the workplace and work processes for potential risks and threat	2	1	-	-
13. align them with organisation standards	2	1	-	1
<b>NOS Total</b>	<b>15</b>	<b>20</b>	-	<b>15</b>

## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	TSC/N9004
<b>NOS Name</b>	Comply with industry and organizational requirement
<b>Sector</b>	Textile
<b>Sub-Sector</b>	Spinning, Weaving, Processing, Knitting
<b>Occupation</b>	Textile Mill sector - Cotton
<b>NSQF Level</b>	3
<b>Credits</b>	TBD
<b>Version</b>	3.0
<b>Last Reviewed Date</b>	27/01/2022
<b>Next Review Date</b>	31/03/2025
<b>NSQC Clearance Date</b>	17/11/2022

## Qualification Pack

### DGT/VSQ/N0101: Employability Skills (30 Hours)

#### Description

This unit is about employability skills, Constitutional values, becoming a professional in the 21st Century, digital, financial, and legal literacy, diversity and Inclusion, English and communication skills, customer service, entrepreneurship, and apprenticeship, getting ready for jobs and career development.

#### Scope

The scope covers the following :

- Introduction to Employability Skills
- Constitutional values - Citizenship
- Becoming a Professional in the 21st Century
- Basic English Skills
- Communication Skills
- Diversity & Inclusion
- Financial and Legal Literacy
- Essential Digital Skills
- Entrepreneurship
- Customer Service
- Getting ready for Apprenticeship & Jobs

#### Elements and Performance Criteria

##### *Introduction to Employability Skills*

To be competent, the user/individual on the job must be able to:

**PC1.** understand the significance of employability skills in meeting the job requirements

##### *Constitutional values - Citizenship*

To be competent, the user/individual on the job must be able to:

**PC2.** identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices

##### *Becoming a Professional in the 21st Century*

To be competent, the user/individual on the job must be able to:

**PC3.** explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.

##### *Basic English Skills*

To be competent, the user/individual on the job must be able to:

**PC4.** speak with others using some basic English phrases or sentences

##### *Communication Skills*

To be competent, the user/individual on the job must be able to:

**PC5.** follow good manners while communicating with others

**PC6.** work with others in a team

## Qualification Pack

### *Diversity & Inclusion*

To be competent, the user/individual on the job must be able to:

**PC7.** communicate and behave appropriately with all genders and PwD

**PC8.** report any issues related to sexual harassment

### *Financial and Legal Literacy*

To be competent, the user/individual on the job must be able to:

**PC9.** use various financial products and services safely and securely

**PC10.** calculate income, expenses, savings etc.

**PC11.** approach the concerned authorities for any exploitation as per legal rights and laws

### *Essential Digital Skills*

To be competent, the user/individual on the job must be able to:

**PC12.** operate digital devices and use its features and applications securely and safely

**PC13.** use internet and social media platforms securely and safely

### *Entrepreneurship*

To be competent, the user/individual on the job must be able to:

**PC14.** identify and assess opportunities for potential business

**PC15.** identify sources for arranging money and associated financial and legal challenges

### *Customer Service*

To be competent, the user/individual on the job must be able to:

**PC16.** identify different types of customers

**PC17.** identify customer needs and address them appropriately

**PC18.** follow appropriate hygiene and grooming standards

### *Getting ready for apprenticeship & Jobs*

To be competent, the user/individual on the job must be able to:

**PC19.** create a basic biodata

**PC20.** search for suitable jobs and apply

**PC21.** identify and register apprenticeship opportunities as per requirement

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

**KU1.** need for employability skills

**KU2.** various constitutional and personal values

**KU3.** different environmentally sustainable practices and their importance

**KU4.** Twenty first (21st) century skills and their importance

**KU5.** how to use basic spoken English language

**KU6.** Do and dont of effective communication

**KU7.** inclusivity and its importance

**KU8.** different types of disabilities and appropriate communication and behaviour towards PwD

**KU9.** different types of financial products and services

## Qualification Pack

- KU10.** how to compute income and expenses
- KU11.** importance of maintaining safety and security in financial transactions
- KU12.** different legal rights and laws
- KU13.** how to operate digital devices and applications safely and securely
- KU14.** ways to identify business opportunities
- KU15.** types of customers and their needs
- KU16.** how to apply for a job and prepare for an interview
- KU17.** apprenticeship scheme and the process of registering on apprenticeship portal

## Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** communicate effectively using appropriate language
- GS2.** behave politely and appropriately with all
- GS3.** perform basic calculations
- GS4.** solve problems effectively
- GS5.** be careful and attentive at work
- GS6.** use time effectively
- GS7.** maintain hygiene and sanitisation to avoid infection



## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Introduction to Employability Skills</i>	<b>1</b>	<b>1</b>	-	-
<b>PC1.</b> understand the significance of employability skills in meeting the job requirements	-	-	-	-
<i>Constitutional values - Citizenship</i>	<b>1</b>	<b>1</b>	-	-
<b>PC2.</b> identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
<i>Becoming a Professional in the 21st Century</i>	<b>1</b>	<b>3</b>	-	-
<b>PC3.</b> explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.	-	-	-	-
<i>Basic English Skills</i>	<b>2</b>	<b>3</b>	-	-
<b>PC4.</b> speak with others using some basic English phrases or sentences	-	-	-	-
<i>Communication Skills</i>	<b>1</b>	<b>1</b>	-	-
<b>PC5.</b> follow good manners while communicating with others	-	-	-	-
<b>PC6.</b> work with others in a team	-	-	-	-
<i>Diversity &amp; Inclusion</i>	<b>1</b>	<b>1</b>	-	-
<b>PC7.</b> communicate and behave appropriately with all genders and PwD	-	-	-	-
<b>PC8.</b> report any issues related to sexual harassment	-	-	-	-
<i>Financial and Legal Literacy</i>	<b>3</b>	<b>4</b>	-	-
<b>PC9.</b> use various financial products and services safely and securely	-	-	-	-

### Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC10.</b> calculate income, expenses, savings etc.	-	-	-	-
<b>PC11.</b> approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
<i>Essential Digital Skills</i>	<b>4</b>	<b>6</b>	-	-
<b>PC12.</b> operate digital devices and use its features and applications securely and safely	-	-	-	-
<b>PC13.</b> use internet and social media platforms securely and safely	-	-	-	-
<i>Entrepreneurship</i>	<b>3</b>	<b>5</b>	-	-
<b>PC14.</b> identify and assess opportunities for potential business	-	-	-	-
<b>PC15.</b> identify sources for arranging money and associated financial and legal challenges	-	-	-	-
<i>Customer Service</i>	<b>2</b>	<b>2</b>	-	-
<b>PC16.</b> identify different types of customers	-	-	-	-
<b>PC17.</b> identify customer needs and address them appropriately	-	-	-	-
<b>PC18.</b> follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship &amp; Jobs</i>	<b>1</b>	<b>3</b>	-	-
<b>PC19.</b> create a basic biodata	-	-	-	-
<b>PC20.</b> search for suitable jobs and apply	-	-	-	-
<b>PC21.</b> identify and register apprenticeship opportunities as per requirement	-	-	-	-
<b>NOS Total</b>	<b>20</b>	<b>30</b>	-	-

## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	DGT/VSQ/N0101
<b>NOS Name</b>	Employability Skills (30 Hours)
<b>Sector</b>	Cross Sectoral
<b>Sub-Sector</b>	Professional Skills
<b>Occupation</b>	Employability
<b>NSQF Level</b>	2
<b>Credits</b>	1
<b>Version</b>	1.0
<b>Last Reviewed Date</b>	NA
<b>Next Review Date</b>	17/10/2024
<b>NSQC Clearance Date</b>	25/06/2020

## Assessment Guidelines and Assessment Weightage

### Assessment Guidelines

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/ training center based on these criteria.
5. In case of successfully passing only certain number of NOSs, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.
6. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

**Minimum Aggregate Passing % at QP Level : 50**

## Qualification Pack

(Please note: Every Trainee should score a minimum aggregate passing percentage as specified above, to successfully clear the Qualification Pack assessment.)

### Assessment Weightage

Compulsory NOS

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
TSC/N0209.Taking charge of shift and handing over shift to Open-End Spinning Tenter	32	36	-	32	100	13
TSC/N0210.Carryout creeling and piecing activities in Open-End Spinning	43	66	-	41	150	20
TSC/N0211.Carry out doffing activities in Open-End Spinning	31	46	-	23	100	13
TSC/N0212.Carryout cleaning and maintenance activities in Open-End Spinning	30	39	-	31	100	13
TSC/N9001.Maintain work area, tools, and machines	17	20	-	13	50	7
TSC/N9002.Working in a team	19	20	-	11	50	7
TSC/N9003.Maintain health, safety and security at workplace	32	40	-	28	100	13
TSC/N9004.Comply with industry and organizational requirement	15	20	-	15	50	7
DGT/VSQ/N0101.Employability Skills (30 Hours)	20	30	0	0	50	7
<b>Total</b>	<b>239</b>	<b>317</b>	<b>0</b>	<b>194</b>	<b>750</b>	<b>100</b>

## Acronyms

<b>NOS</b>	National Occupational Standard(s)
<b>NSQF</b>	National Skills Qualifications Framework
<b>QP</b>	Qualifications Pack
<b>TVET</b>	Technical and Vocational Education and Training

## Qualification Pack

### Glossary

<b>Sector</b>	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
<b>Sub-sector</b>	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
<b>Occupation</b>	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
<b>Job role</b>	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
<b>Occupational Standards (OS)</b>	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
<b>Performance Criteria (PC)</b>	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
<b>National Occupational Standards (NOS)</b>	NOS are occupational standards which apply uniquely in the Indian context.
<b>Qualifications Pack (QP)</b>	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
<b>Unit Code</b>	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
<b>Unit Title</b>	Unit title gives a clear overall statement about what the incumbent should be able to do.
<b>Description</b>	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.
<b>Scope</b>	Scope is a 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 quality of performance required.

## Qualification Pack

<b>Knowledge and Understanding (KU)</b>	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.
<b>Organisational Context</b>	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
<b>Technical Knowledge</b>	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
<b>Core Skills/ Generic Skills (GS)</b>	Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.
<b>Electives</b>	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
<b>Options</b>	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.