

Qualification Pack



Fitter - Shuttleless Weaving Machine: Rapier

QP Code: TSC/Q2403

Version: 1.0

NSQF Level: 5

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TSC/Q2403: Fitter - Shuttleless Weaving Machine: Rapier

Brief Job Description

A Fitter - Shuttleless Weaving Machine: Rapier is a job-role in a weaving department. The responsibility of Fitter - Shuttleless Weaving Machine: Rapier is to maintain the loom efficiently so as to get maximum output with minimum defects, with less cost of production and giving due importance to safety and environment aspects. He/she should carry out all the maintenance aspects such as erecting, dismantling, assembling, leveling, attending & resolving repairs and breakdowns in preparatory department. He/she should also carry out regular preventive maintenance activities thus ensuring proper functioning of all machines.

Personal Attributes

A Fitter - Shuttleless Weaving Machine: Rapier should have good eyesight, eye-hand coordination, motor skills and vision (including near vision, distance vision, colour vision, peripheral vision, depth perception and ability to change focus).

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. [TSC/N2405: Taking charge of shift and handing over shift to fitter - Shuttle less Weaving Machine: Rapier](#)
2. [TSC/N2406: Maintain the shuttle-less Rapier loom](#)
3. [TSC/N9001: Maintain work area, tools and machines](#)
4. [TSC/N9002: Working in a team](#)
5. [TSC/N9003: Maintain health, safety and security at workplace](#)
6. [TSC/N9004: Comply with industry and organizational requirement](#)

Qualification Pack (QP) Parameters

Sector	Textile
Sub-Sector	Weaving
Occupation	Weaving maintenance
Country	India
NSQF Level	5

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Aligned to NCO/ISCO/ISIC Code	NCO-2015/8152.99
Minimum Educational Qualification & Experience	10th Class (Preferably) with 1-2 Years of experience in a weaving unit (Experience is preferred but not mandatory)
Minimum Level of Education for Training in School	
Pre-Requisite License or Training	Training in weaving department (Suggested but not mandatory)
Minimum Job Entry Age	18 Years
Last Reviewed On	21/01/2015
Next Review Date	31/03/2021
Deactivation Date	31/03/2021
NSQC Approval Date	20/07/2015
Version	1.0

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TSC/N2405: Taking charge of shift and handing over shift to fitter - Shuttleless Weaving Machine: Rapier

Description

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

Scope

This unit/task covers the following:

- To take charge of shift from previous shift fitter-Shuttleless Weaving machine: Rapier
- To hand over the shift to next shift fitter-Shuttleless Weaving machine: Rapier

Elements and Performance Criteria

To take charge of shift from previous shift fitter Shuttleless Weaving machine: Rapier

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

1. • come atleast 15
• 20 minutes earlier to the work spot
2. ensure that the necessary tools, gauges etc., are in place
3. check for the availability of the weft & the condition of the same
4. check the working condition of the Weft Feeders
5. check for the fabric defects on the cloth
6. check for the correct functions of Centre Cutter, Side Cutter etc., wherever they are in use
7. check whether the leno ends are drawn properly
8. check whether catch cord ends are drawn properly
9. check whether the Leno motion works properly
10. check the condition of the running beams for cross ends, ends pulling out particularly at the selvage etc.
11. check the condition of the Rapiers
12. check the condition of the Rapier Tapes
13. note down the break downs in rapier machines
14. check for the size of the Cloth Rolls & to see whether any indication is there in the cloth rolls
15. check the cleanliness of the machines & other work areas
16. check whether any spare/raw material/ tool / fabric/ any other material is thrown under the machines or in the other work areas
17. question the previous shift fitter 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

To hand over the shift to next shift fitter -Shuttleless Weaving machine: Rapier

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

18. hand over the shift to the incoming fitter in a proper manner

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19. get clearance from the incoming counterpart before leaving the work spot
20. 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 duty. In that case, the shift has to be properly handed over to the incoming shift Superior & get clearance from Him before leaving the work spot
21. 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
22. ensure the work place is clean & tidy

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** the organization's policies & standard operating procedures (SOP)
- KU2.** should have an awareness & knowledge of customers
- KU3.** potential hazards associated with the machines and the safety precautions must be taken
- KU4.** protocol to obtain more information on work related tasks
- KU5.** contact person in case of queries on procedure or products and for resolving issues related to defective machines, tools, materials & equipment
- KU6.** details of the various job roles & responsibilities
- KU7.** documentation and reporting formats
- KU8.** work targets & review mechanism with superiors
- KU9.** protocol and format for reporting work related risks/ problems
- KU10.** method of obtaining /giving feed back with respect to performance
- KU11.** importance of harmonious working relationships
- KU12.** process for offering /obtaining work related assistance
- KU13.** responsibilities under health, safety and environmental legislation
- KU14.** guidelines for storage & disposal of waste materials
- KU15.** minimum quality requirements of the product with respect to permissible/non permissible defect Process flow & material flow in a weaving/ textile mill
- KU16.** fabric quality particulars such as ends & picks per inch, width weave etc.
- KU17.** yarns from natural fibers - cotton, silk, wool
- KU18.** yarns from manmade fibers - polyester, nylon, viscose.
- KU19.** Blended yarns - Polyester Cotton, Polyester Viscose
- KU20.** procedure for operating Rapier loom
- KU21.** Functions of various controls of rapier loom
- KU22.** functions and methodology for operating different material handling tools
- KU23.** Knowledge of waste collection systems & their use
- KU24.** Importance of cleanliness at work place
- KU25.** Safety procedures to be followed at work place
- KU26.** Plain Weave, Twill, Drill, Plain Satin, Stripe Satin, Dobby designs, Jacquard Designs

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- KU27.** Wrong Drawing, Wrong Denting, End Out, Double End, Broken Pick, Double Pick, Missing Pick, Hand Stain, Hole, Wrong Weft, Bad Selvedge
- KU28.** End Out, Let-Off, Take- Up problem, Temple Mark, Temple Cut, Emery Hole/ Emery Cut/ Emery Mark, Broken Pick, Missing Pick, Double Pick, Short Pick, Snarls, Impression Mark, Oil Stain, Lashing In, Weft Catching, Selvedge Cut, Loops, Weft Stitches, Warp Stitches, Bumping Mark, Weft Crack, Cloth Torn, Bad Shedding, Warp Floats, Weft Floats, Reed Mark, Bad Selvedge, Starting Mark, Thin & Thick Place, Hair line crack
- KU29.** Spinning Faults - Thin Place, Thick Place, Neps, Kitties, Contamination, Color Flies, Yarn variation, Shade Variation
- KU30.** Sizing Faults - Shade variation, Size Patches, Sizing Oil, Bead formation
- KU31.** Weaving Faults - Wrong Weft, Wrong Pattern, Less Width, Low EPI, Low PPI, Wrong Warp
- KU32.** Four Point American System
- KU33.** British system of grading cuttable faults, warp way continuous faults, specification deviations KB19. American System
- KU34.** safety mechanisms of the machines & should ensure that the same are in order
- KU35.** Should know about the stop motions & should ensure that the same are in order
- KU36.** Should know about the indication lamps & should ensure that the same are in order
- KU37.** functional operations of the machines

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.** participate in the various programs/ meetings that are conducted by the Superiors
- GS11.** put forth the suggestions in the interest of the Company
- GS12.** participate in the Quality Circles formed by the Superiors extend voluntary supports and adapt to the various procedures that are adopted by the Company with respect to compliances for the different certifications like ISO 9001, ISO 4001, SA 8001 GOTS Certification Fair Trade etc.
- GS13.** ensure that Warp breaks/loom hour doesn't exceed 2
- GS14.** ensure that weft breaks/loom hour doesn't exceed 1
- GS15.** ensure that fabric rejection doesn't exceed 1%
- GS16.** ensure that the efficiency is maintained in excess of 85%
- GS17.** ensure that the warp waste doesn't exceed 0.5%



GS18. ensure that the weft waste doesn't exceed 1 %

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>To take charge of shift from previous shift fitter Shuttleless Weaving machine: Rapier</i>	12	25	-	4
1. • come atleast 15 • 20 minutes earlier to the work spot	-	1	-	-
2. ensure that the necessary tools, gauges etc., are in place	1	1	-	1
3. check for the availability of the weft & the condition of the same	1	1	-	-
4. check the working condition of the Weft Feeders	-	2	-	-
5. check for the fabric defects on the cloth	1	2	-	1
6. check for the correct functions of Centre Cutter, Side Cutter etc., wherever they are in use	1	2	-	-
7. check whether the leno ends are drawn properly	1	2	-	1
8. check whether catch cord ends are drawn properly	-	1	-	-
9. check whether the Leno motion works properly	1	1	-	-
10. check the condition of the running beams for cross ends, ends pulling out particularly at the selvedge etc.	1	2	-	-
11. check the condition of the Rapiers	1	2	-	-
12. check the condition of the Rapier Tapes	1	2	-	1
13. note down the break downs in rapier machines	-	2	-	-
14. check for the size of the Cloth Rolls & to see whether any indication is there in the cloth rolls	1	1	-	-
15. check the cleanliness of the machines & other work areas	1	1	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
16. check whether any spare/raw material/ tool / fabric/ any other material is thrown under the machines or in the other work areas	1	1	-	-
17. question the previous shift fitter 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	-	1	-	-
<i>To hand over the shift to next shift fitter - Shuttleless Weaving machine: Rapier</i>	3	6	-	-
18. hand over the shift to the incoming fitter in a proper manner	-	2	-	-
19. get clearance from the incoming counterpart before leaving the work spot	-	1	-	-
20. 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 duty. In that case, the shift has to be properly handed over to the incoming shift Superior & get clearance from Him before leaving the work spot	1	1	-	-
21. 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	1	1	-	-
22. ensure the work place is clean & tidy	1	1	-	-
NOS Total	15	31	-	4

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National Occupational Standards (NOS) Parameters

NOS Code	TSC/N2405
NOS Name	Taking charge of shift and handing over shift to fitter - Shuttle less Weaving Machine: Rapier
Sector	Textile
Sub-Sector	Weaving
Occupation	Weaving maintenance
NSQF Level	5
Credits	TBD
Version	1.0
Last Reviewed Date	21/01/2015
Next Review Date	01/03/2016
NSQC Clearance Date	20/07/2015

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TSC/N2406: Maintain the shuttle-less Rapier loom

Description

This unit provides performance criteria, knowledge & understanding and skills & abilities required to maintain shuttle-less loom (Rapier Looms), by attending to repairs with respect to quality & production so as to get maximum output & minimum defects, and with less cost of production without entertaining any damage to the people, the machine etc. without wasting much of raw materials, spares, tools etc., & without spoiling the environmental aspects.

Scope

This unit/task covers the following:

- Attending to quality Issues
- Attending Production Issues/ Break downs
- Ensuring Maintenance activities
- Other Work Practices

Elements and Performance Criteria

Attending to quality Issues

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

1. ensure that the production is commenced only after the sample is approved
2. ensure that bulk production is started only after the first roll is approved
3. ensure that Warp Stop motion functions properly, so that no end out problem, warp float etc. doesn't occur on the fabrics
4. ensure that Weft stop motion functions properly so that fabrics don't get rejected due to weft crack
5. maintain Take Up & Let-Off mechanisms properly so that fabrics don't get rejected due to let-off faults, take-up faults etc
6. ensure proper functioning of stop motions, Back Rest, Shedding etc., so that fabrics are free from defects like starting mark, bad shedding etc.
7. maintain temple setting, reed setting so that fabrics don't get rejected for reasons like temple cut, temple mark, Reed mark
8. attend the other fabric defects like Drop Pick, Cloth Torn, Weft Stitches floats etc.

Attending Production Issues/ Break downs

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

9. attend excessive weft breaks
10. attend to Weft Transfer failures
11. attend excessive warp breaks
12. attend to loom stoppages due to Projectile getting Jammed
13. see that the condition of Heald wires, Heald Frames, reed etc. are in good condition
14. see that the loom runs with the actual required belts and should see that there is no slippage in the same, so as to ensure that the loom works in the recommended speed

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15. see that replenishment of spares or attending to break downs is done in the prescribed time.
16. ensure required humidity in the loom shed
17. check the knotted looms & ensure that knotting is carried out without cross ends
18. check the sort change loom & ensure that drawing & reaching was carried out without any cross ends
19. ensure Loom Breakage Study and check the quality of both warp & weft yarn. For any deviation the same has to be brought to the knowledge of the higher authority
20. check the Sizing quality and for any deviation, the same has to be brought to the notice of the higher authority
21. ensure proper dropper cleaning

Ensuring Maintenance activities

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

22. ensure that the looms are cleaned properly as per the below schedule: a) Daily cleaning, b) Cleaning during Knotting, c) Cleaning during Sort Changes
23. carry out preventive maintenance as per the schedule
24. ensure the life of all the spares through effective maintenance
25. To maintain Spare Changing Details note, for the following details: a) Loom No., b) Name Of The Spare, c) Side (If any), d) Part No., e) Name Of the Supplier, f) Make, g) Date of Application, h) Date Of Removal, i) Reason For Removal, j) Life of Item
26. To salvage the Broken Spare & to avail new spare, only after producing the Old Spare to the Stores
27. To maintain Sort Muster as per the below details: a) Loom No., b) Construction Details, c) Warp Material details, d) Warp Count, e) Warp Mill Name, f) Warp Yarn Test Report (Test Parameters), g) Reed Used, h) Total Ends Used, i) Name Of The Sizing, j) Warming Breakage Rate, k) Average Warp Count, l) Size Pick Up, m) Warp break/ loom hour, n) Weft Material Details, o) Weft Count, p) Weft Mill Name, q) Weft Yarn Test Report (Test Parameters), r) Reed Space, s) Weft breakage per loom hour, t) Average Loom Efficiency, u) Loom Speed, v) Average Production in Kilo Picks/loom day, w) Production in meters/loom day, x) Date of knotting, y) Knotted meters, z) Date of exhaustion, aa) Produced meters, bb) Warp Crimp, cc) Warp Consumption/meter (Excluding Size Add On), dd) Warp Wt in kgs/ meter (Including Size add on), ee) Weft Consumption/meter, ff) Total cloth wt in kgs/ meter, gg) GSM, hh) Fabric doffed, ii) Fabric inspected, jj) Fabric Passed, kk) Fabric Rejected, ll) Rejection %, mm) Reason For Rejection, nn) Warp Waste %, oo) Weft Waste %
28. maintain effective working of Generator
29. see that Air is not misused Can use air for cleaning, only in the areas, where it is allowed
30. ensure proper maintenance of Air Compressor

Other Work Practices

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

31. Should ensure that Loom Cards for all the required details are placed on all the looms: a) Loom No., b) Construction details, c) Reed Count, d) Reed Space, e) Weft Count, f) Pick Wheel, g) Winding Spindle No., h) Drawing Method
32. see that the weft yarn is completely used, without giving room for additional wastage of raw materials. For any quality issue or defective cone etc., the same has to be brought to the notice of the Superiors

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33. To maintain Knotting Entry Note with the following details: a) Loom No., b) Construction Details, c) Date Of Knotting, d) Time of Exhaustion, e) Cleaning Completed Time, f) Beam Loading Completed Time, g) Knotting Completed Time, h) Loom Run Time, i) Total Stopped Time For Knotting, j) Name Of the Sizing, k) Set No., l) Beam Nos., m) Beam Meters, n) Old Warp Waste kgs, o) New Warp Waste kgs, p) Cleaning Quality, q) Knotting Quality
34. ensure Relative Humidity in the Department is maintained
35. ensure correct quality of thrums are there & see that the same are properly tied
36. check the knotted loom for knotting quality etc. Double ends have to be removed. Report to Superiors for any deviation in the same & for any other quality issue
37. all the safety covers are placed
38. ensure that cloth rolls are doffed whenever/ wherever necessary
39. ensure that no raw material/ cloth/ spare/ tool / any other material is thrown under/ near the machines or in the other work areas.

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** The Organization's policies & standard operating procedures (SOP)
- KU2.** Should have an awareness, knowledge of customers
- KU3.** Potential hazards associated with the machines and the safety precautions must be taken
- KU4.** protocol to obtain more information on work related tasks
- KU5.** Contact Person in case of queries on procedure or products and for resolving issues related to defective machines, tools, materials & equipments
- KU6.** details of the various job roles & responsibilities
- KU7.** documentation and reporting formats
- KU8.** work targets & review mechanism with superiors
- KU9.** protocol and format for reporting work related risks/ problems
- KU10.** method of obtaining /giving feedback with respect to performance
- KU11.** importance of harmonious working relationships
- KU12.** process for offering /obtaining work related assistance
- KU13.** responsibilities under health, safety and environmental legislation
- KU14.** guidelines for storage & disposal of waste materials
- KU15.** minimum quality requirements of the product with respect to permissible/non permissible defects
- KU16.** Fabric quality particulars such as ends & picks per inch, width, weave etc.
- KU17.** yarns from natural fibers - cotton, silk, wool
- KU18.** yarns from manmade fibers - polyester, nylon, viscose.
- KU19.** Blended yarns - Polyester Cotton, Polyester Viscose
- KU20.** Hand Loom
- KU21.** Power Loom - Conventional Loom
- KU22.** Auto Loom - Shuttle Looms

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- KU23.** Shuttleless Looms - Rapier, Projectile, Airjet, Waterjet
- KU24.** Tappet loom/ Cam Loom/ Crank Loom, Dobby Loom, Jacquard Loom
- KU25.** Plain Weave, Twill, Drill, Plain Satin, Stripe Satin, Dobby designs, Jacquard Designs
- KU26.** Wrong Drawing, Wrong Denting, End Out, Double End, Broken Pick, Double Pick, Missing Pick, Hand Stain, Hole, Wrong Weft, Bad Selvedge
- KU27.** End Out, Let-Off, Take- Up problem, Temple Mark, Temple Cut, Emery Hole/ Emery Cut/ Emery Mark, Broken Pick, Missing Pick, Double Pick, Short Pick, Snarls, Impression Mark, Oil Stain, Lashing In, Weft Catching, Selvedge Cut, Loops, Weft Stitches, Warp Stitches, Bumping Mark, Weft Crack, Cloth Torn, Bad Shedding, Warp Floats, Weft Floats, Reed Mark, Bad Selvedge, Starting Mark, Thin & Thick Place, Hair line crack
- KU28.** Spinning Faults - Thin Place, Thick Place, Neps, Kitties, Contamination, Color Flies, Yarn variation, Shade Variation
- KU29.** Sizing Faults - Shade variation, Size Patches, Sizing Oil, Bead formation
- KU30.** Weaving Faults - Wrong Weft, Wrong Pattern, Less Width, Low EPI, Low PPI, Wrong Warp
- KU31.** Four Point American System Below 3 - 1 point Between 3 to 6 - 2 points Between 6 to 9 - 3 points Above 9 - 4 points
- KU32.** British system of grading cuttable faults, warp way continuous faults, specification deviations
A Grade - No Cuttable Faults, No Warp Way Continuous Faults, No 3 Major Faults, 15 minor points
B Grade - Rejection. Deviation from A Grade Cuttable Faults ; Hole, Let - Off, Take - Up, Selvedge Cut, Weft Crack, Cloth Torn, Wrong Pattern, Bad Shedding, Size Patches, Sizing Oil, Bead Formation, Wrong Weft Major Faults : Wrong Drawing, Wrong Denting, End Out, Double End, Temple Mark, Temple Cut, Emery Hole, Emery Cut, Emery Mark, Impression Mark, Guide Tooth Mark, Under Tuck In, Tails, Warp Stitches, Warp Floats, Reed Mark, Bad Selvedge, Yarn Variation, Shade Variation
Cloth Width - No Minus is accepted & No excess above 0.5 is accepted
Per Inch - Plus or Minus 2 is accepted. Picks Per Inch - Plus or Minus 1.
- KU33.** American System A Grade - No Cuttable Faults, No Warp Way Continuous Faults, No of grading Export Specification Deviation. Maximum 15 points for 100 Square meter Standard Piece
B Grade - Rejection. Deviation from A Grade For length based rejections Lengths - Between 40 meters to 79.75 meters - 20% (to variation from Buyer to Buyer) Above 80 meters - 80%
- KU34.** safety mechanisms of the machines & should ensure that the same are in order
- KU35.** the stop motions & should ensure that the same are in order
- KU36.** indication lamps & should ensure that the same are in order
- KU37.** functional operations of the machines

Generic Skills (GS)

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

- GS1.** comprehend written instructions
- GS2.** communicate with supervisor appropriately
- GS3.** talk to others to convey information effectively
- GS4.** apply problem-solving approaches in different situations
- GS5.** refer anomalies to the supervisor
- GS6.** seek clarification on problems from others

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- GS7.** apply good attention to detail
- GS8.** check your work is complete and free from errors
- GS9.** participate in the various programs/ meetings that are conducted by the Superior
- GS10.** put forth the suggestions in the interest of the Company
- GS11.** participate in the Quality Circles that are formed by the Superiors extend voluntary supports and adapt to the various procedures that are adopted by the Company with respect to compliances for the different certifications like ISO 9001, ISO 14001, SA 8001 GOTS Certification Fair Trade etc.
- GS12.** ensure that Warp breaks/loom hour doesn't exceed 2
- GS13.** ensure that weft breaks/loom hour doesn't exceed 1
- GS14.** ensure that fabric rejection doesn't exceed 1%
- GS15.** ensure that the efficiency is maintained in excess of 85%
- GS16.** ensure that the warp waste doesn't exceed 0.5%
- GS17.** ensure that the weft waste doesn't exceed 1 %

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Attending to quality Issues</i>	9	18	-	-
1. ensure that the production is commenced only after the sample is approved	-	2	-	-
2. ensure that bulk production is started only after the first roll is approved	-	2	-	-
3. ensure that Warp Stop motion functions properly, so that no end out problem, warp float etc. doesn't occur on the fabrics	1	3	-	-
4. ensure that Weft stop motion functions properly so that fabrics don't get rejected due to weft crack	1	1	-	-
5. maintain Take Up & Let-Off mechanisms properly so that fabrics don't get rejected due to let-off faults, take-up faults etc	1	2	-	-
6. ensure proper functioning of stop motions, Back Rest, Shedding etc., so that fabrics are free from defects like starting mark, bad shedding etc.	2	2	-	-
7. maintain temple setting, reed setting so that fabrics don't get rejected for reasons like temple cut, temple mark, Reed mark	2	3	-	-
8. attend the other fabric defects like Drop Pick, Cloth Torn, Weft Stitches floats etc.	2	3	-	-
<i>Attending Production Issues/ Break downs</i>	15	33	-	-
9. attend excessive weft breaks	1	3	-	-
10. attend to Weft Transfer failures	1	2	-	-
11. attend excessive warp breaks	1	2	-	-
12. attend to loom stoppages due to Projectile getting Jammed	1	2	-	-
13. see that the condition of Heald wires, Heald Frames, reed etc. are in good condition	2	3	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
14. see that the loom runs with the actual required belts and should see that there is no slippage in the same, so as to ensure that the loom works in the recommended speed	1	2	-	-
15. see that replenishment of spares or attending to break downs is done in the prescribed time.	1	3	-	-
16. ensure required humidity in the loom shed	1	2	-	-
17. check the knotted looms & ensure that knotting is carried out without cross ends	1	3	-	-
18. check the sort change loom & ensure that drawing & reaching was carried out without any cross ends	1	3	-	-
19. ensure Loom Breakage Study and check the quality of both warp & weft yarn. For any deviation the same has to be brought to the knowledge of the higher authority	1	2	-	-
20. check the Sizing quality and for any deviation, the same has to be brought to the notice of the higher authority	2	3	-	-
21. ensure proper dropper cleaning	1	3	-	-
<i>Ensuring Maintenance activities</i>	12	24	-	4
22. ensure that the looms are cleaned properly as per the below schedule: a) Daily cleaning, b) Cleaning during Knotting, c) Cleaning during Sort Changes	2	3	-	1
23. carry out preventive maintenance as per the schedule	1	2	-	-
24. ensure the life of all the spares through effective maintenance	1	3	-	-
25. To maintain Spare Changing Details note, for the following details: a) Loom No., b) Name Of The Spare, c) Side (If any), d) Part No., e) Name Of the Supplier, f) Make, g) Date of Application, h) Date Of Removal, i) Reason For Removal, j) Life of Item	2	3	-	1

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
26. To salvage the Broken Spare & to avail new spare, only after producing the Old Spare to the Stores	1	3	-	-
27. To maintain Sort Muster as per the below details: a) Loom No., b) Construction Details, c) Warp Material details, d) Warp Count, e) Warp Mill Name, f) Warp Yarn Test Report (Test Parameters), g) Reed Used, h) Total Ends Used, i) Name Of The Sizing, j) Warping Breakage Rate, k) Average Warp Count, l) Size Pick Up, m) Warp break/ loom hour, n) Weft Material Details, o) Weft Count, p) Weft Mill Name, q) Weft Yarn Test Report (Test Parameters), r) Reed Space, s) Weft breakage per loom hour, t) Average Loom Efficiency, u) Loom Speed, v) Average Production in Kilo Picks/loom day, w) Production in meters/loom day, x) Date of knotting, y) Knotted meters, z) Date of exhaustion, aa) Produced meters, bb) Warp Crimp, cc) Warp Consumption/meter (Excluding Size Add On), dd) Warp Wt in kgs/ meter (Including Size add on), ee) Weft Consumption/meter, ff) Total cloth wt in kgs/ meter, gg) GSM, hh) Fabric doffed, ii) Fabric inspected, jj) Fabric Passed, kk) Fabric Rejected, ll) Rejection %, mm) Reason For Rejection, nn) Warp Waste %, oo) Weft Waste %	2	3	-	2
28. maintain effective working of Generator	1	2	-	-
29. see that Air is not misused Can use air for cleaning, only in the areas, where it is allowed	1	2	-	-
30. ensure proper maintenance of Air Compressor	1	3	-	-
<i>Other Work Practices</i>	13	21	-	1
31. Should ensure that Loom Cards for all the required details are placed on all the looms: a) Loom No., b) Construction details, c) Reed Count, d) Reed Space, e) Weft Count, f) Pick Wheel, g) Winding Spindle No., h) Drawing Method	2	3	-	-
32. see that the weft yarn is completely used, without giving room for additional wastage of raw materials. For any quality issue or defective cone etc., the same has to be brought to the notice of the Superiors	1	3	-	-

Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
33. To maintain Knotting Entry Note with the following details: a) Loom No., b) Construction Details, c) Date Of Knotting, d) Time of Exhaustion, e) Cleaning Completed Time, f) Beam Loading Completed Time, g) Knotting Completed Time, h) Loom Run Time, i) Total Stopped Time For Knotting, j) Name Of the Sizing, k) Set No., l) Beam Nos., m) Beam Meters, n) Old Warp Waste kgs, o) New Warp Waste kgs, p) Cleaning Quality, q) Knotting Quality	3	3	-	1
34. ensure Relative Humidity in the Department is maintained	1	2	-	-
35. ensure correct quality of thrums are there & see that the same are properly tied	1	2	-	-
36. check the knotted loom for knotting quality etc. Double ends have to be removed. Report to Superiors for any deviation in the same & for any other quality issue	2	3	-	-
37. all the safety covers are placed	1	1	-	-
38. ensure that cloth rolls are doffed whenever/ wherever necessary	1	1	-	-
39. ensure that no raw material/ cloth/ spare/ tool / any other material is thrown under/ near the machines or in the other work areas.	1	3	-	-
NOS Total	49	96	-	5

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	TSC/N2406
NOS Name	Maintain the shuttle-less Rapier loom
Sector	Textile
Sub-Sector	Weaving
Occupation	Weaving maintenance
NSQF Level	5
Credits	TBD
Version	1.0
Last Reviewed Date	21/01/2015
Next Review Date	01/03/2016
NSQF Clearance Date	20/07/2015

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

This unit/task 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

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- 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>	17	20	-	13
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
NOS Total	17	20	-	13

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	TSC/N9001
NOS Name	Maintain work area, tools and machines
Sector	Textile
Sub-Sector	Spinning, Weaving, Processing, Knitting
Occupation	Textile Mill sector - Cotton
NSQF Level	3
Credits	TBD
Version	1.0
Last Reviewed Date	25/02/2015
Next Review Date	01/03/2016
NSQF Clearance Date	05/08/2015

Qualification Pack

TSC/N9002: Working in a team

Description

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

Scope

This unit/task covers the following:

- commitment and trust
- communication
- adaptability
- creative freedom

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

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Commitment and trust</i>	5	4	-	2
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>	6	7	-	4
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>	5	4	-	3
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>	3	5	-	2
11. develop new ideas for work procedures	1	3	-	1
12. improve upon the existing techniques to increase process efficiency	2	2	-	1
NOS Total	19	20	-	11

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	TSC/N9002
NOS Name	Working in a team
Sector	Textile
Sub-Sector	Spinning, Weaving, Processing, Knitting
Occupation	Textile Mill sector - Cotton
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	25/02/2015
Next Review Date	01/03/2016
NSQC Clearance Date	05/08/2015

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

This unit/task covers the following:

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

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:

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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

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- 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>	27	35	-	23
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

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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>	2	2	-	2
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>	3	3	-	3
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
NOS Total	32	40	-	28

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	TSC/N9003
NOS Name	Maintain health, safety and security at workplace
Sector	Textile
Sub-Sector	Spinning, Weaving, Processing, Knitting
Occupation	Textile Mill sector - Cotton
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	25/02/2015
Next Review Date	01/03/2016
NSQC Clearance Date	05/08/2015

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

This unit/task 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:

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- 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>	5	9	-	7
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>	3	5	-	4
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>	3	4	-	3
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>	4	2	-	1
12. monitor the workplace and work processes for potential risks and threat	2	1	-	-
13. align them with organisation standards	2	1	-	1
NOS Total	15	20	-	15

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	TSC/N9004
NOS Name	Comply with industry and organizational requirement
Sector	Textile
Sub-Sector	Spinning, Weaving, Processing, Knitting
Occupation	Textile Mill sector - Cotton
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	25/02/2015
Next Review Date	01/03/2016
NSQC Clearance Date	05/08/2015

Qualification Pack

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 : 70

(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/N2405.Taking charge of shift and handing over shift to fitter - Shuttle less Weaving Machine: Rapier	15	31	-	4	50	11
TSC/N2406.Maintain the shuttle-less Rapier loom	49	96	-	5	150	34
TSC/N9001.Maintain work area, tools and machines	17	20	-	13	50	11
TSC/N9002.Working in a team	19	20	-	11	50	11

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National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
TSC/N9003.Maintain health, safety and security at workplace	32	40	-	28	100	22
TSC/N9004.Comply with industry and organizational requirement	15	20	-	15	50	11
Total	147	227	-	76	450	100

Acronyms

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

Qualification Pack

Glossary

Sector	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.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	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.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is 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.

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Knowledge and Understanding (KU)	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.
Organisational Context	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.
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/ Generic Skills (GS)	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.
Electives	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.
Options	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.