

Qualification Pack



Power Loom Operator (Solar power drive attachment)

Options: Solar power drive attachment

QP Code: TSC/Q2209

Version: 1.0

NSQF Level: 4

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Qualification Pack

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Qualification Pack

Contents

TSC/Q2209: Power Loom Operator (Solar power drive attachment)	4
<i>Brief Job Description</i>	4
Applicable National Occupational Standards (NOS)	4
<i>Compulsory NOS</i>	4
<i>Option: Solar power drive attachment</i>	4
<i>Qualification Pack (QP) Parameters</i>	4
TSC/N2215: Taking charge of shift and handing over shift to Power Loom Operator	6
TSC/N2216: Running the power loom	13
TSC/N9001: Maintain work area, tools and machines	23
TSC/N9002: Working in a team	27
TSC/N9003: Maintain health, safety and security at workplace	31
TSC/N9004: Comply with industry and organizational requirement	37
TSC/N7904: Operation and Maintenance of solar attachment	41
Assessment Guidelines and Weightage	46
<i>Assessment Guidelines</i>	46
<i>Assessment Weightage</i>	46
Acronyms	48
Glossary	49

Qualification Pack

TSC/Q2209: Power Loom Operator (Solar power drive attachment)

Brief Job Description

An operator of a Power Loom is a job-role in the weaving department. The responsibility of the power loom operator is to run the loom efficiently so as to get maximum output with minimum fabric defects, giving due importance to safety and environment aspects.

Personal Attributes

A power loom operator 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/N2215: Taking charge of shift and handing over shift to Power Loom Operator](#)
2. [TSC/N2216: Running the power 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](#)

Options(Not mandatory):

Option : Solar power drive attachment

This NOS deals with the operation and maintenance procedures for solar attachment in the Textile machines under supervision by giving due importance to safety and environmental aspects.

1. [TSC/N7904: Operation and Maintenance of solar attachment](#)

Qualification Pack (QP) Parameters

Sector	Textile
Sub-Sector	Weaving
Occupation	Weaving

Qualification Pack

Country	India
NSQF Level	4
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7318.55
Minimum Educational Qualification & Experience	6th Class (Preferably)
Minimum Level of Education for Training in School	
Pre-Requisite License or Training	NA
Minimum Job Entry Age	15 Years
Last Reviewed On	09/08/2017
Next Review Date	31/03/2021
Deactivation Date	31/03/2021
NSQC Approval Date	05/02/2018
Version	1.0

Qualification Pack

TSC/N2215: Taking charge of shift and handing over shift to Power Loom Operator

Description

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

Scope

This unit/task covers the following:

- Taking charge of the shift from power loom operator
- Handing over the shift from power loom operator

Elements and Performance Criteria

Taking charge of the shift from power loom operator

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

1. Come at least 10 - 15 minutes earlier to the work spot
2. Bring the necessary operational tools like weaver's hook, knife etc.
3. Meet the previous shift weaver, discuss with him/ her regarding the issues faced by them with respect to the quality or production or spare or safety or any other specific instruction etc.
4. Check for the availability of the weft & the condition of the same
5. Check the condition of the running beams, for cross ends, ends pulling out particularly at the selvedge
6. Check the availability of the thrums, quality & condition of the same
7. Check the cloth for the running damages like end out, wrong drawing, wrong denting, double end, reed mark, temple cut/ temple mark, let- off mark, take up fault, oil stain, hole, cloth torn, weft catching, weft lashing-in etc.
8. Check for the size of the cloth rolls & see whether any indication is there in the cloth rolls
9. Check the cleanliness of the machines & other work areas
10. Check whether any spare/raw material/ tool / fabric/ any other material are thrown under the machines or in the other work areas
11. Question the previous shift weaver for any deviation in the above and should bring the same to the knowledge of his/ her shift superior as well that of the previous shift as well

Hand over the shift from power loom operator

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

12. Hand over the shift to the incoming weaver in a proper manner & get clearance from the incoming counterpart before leaving the work spot
13. Report to your shift superior as well as that of the incoming shift, in case counterpart doesn't report for the incoming shift. In that case, the shift has to be properly handed over to the incoming shift superior & get clearance from him/ her, before leaving the work spot

Qualification Pack

- 14.** Report to your shift superior about the quality / production / safety issues/ any other issues faced in your shift and leave the department only after getting his/ her concurrence for the same

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** The organization's policies & standard operating procedures (SOP) and its process
- KU2.** Should have an awareness and knowledge of customers
- KU3.** Potential hazards associated with the machines and important safety precautions
- 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 snap study
- KU6.** Details of the various job roles & responsibilities
- KU7.** Documentation and reporting formats
- KU8.** Work targets & reviews 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 teamwork, 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.** The minimum quality requirements of the product with respect to permissible/non-permissible time limits
- KU16.** Fabric quality particulars such as ends per inch, picks per inch, fabric width and weave pattern etc.
- KU17.** Yarns from natural fibers - cotton, jute, silk, wool etc.,
- KU18.** Yarns from manmade fibers - polyester, nylon, viscose etc.,
- KU19.** Blended yarns polyester-cotton, polyester-viscose
- KU20.** Hand loom
- KU21.** Power loom - conventional loom
- KU22.** Auto loom - shuttle looms
- KU23.** Plain weave, twill, drill, plain satin, stripe satin, dobby designs and jacquard designs
- KU24.** Shuttle less looms - rapier, projectile, air jet, water jet
- KU25.** Tappet loom/ cam loom/ crank loom, dobby loom, jacquard loom
- KU26.** Wrong drawing, wrong denting, end out, double end, broken pick, double pick, missing pick, hand stain, hole, wrong weft, bad selvedge, etc.
- 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, starting mark, thin & thick place, hair line crack etc.

Qualification Pack

- KU28.** Yarn faults - thin place, thick place, neps, kitties, contamination, color flies, yarn variation, shade variation, etc.
- KU29.** Sizing faults - shade variation, size patches, sizing oil and bead formation etc.
- KU30.** Weaving faults - wrong weft, wrong pattern, less width, variation in EPI & PPI, wrong warp, etc.
- 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.** A grade - no cuttable faults, no warp way continuous faults, no 3 major faults and 15 minor points
B grade rejection, deviation from a grade
- KU33.** Cuttable faults: hole, let - off, take - up, selvedge cut, weft crack, cloth torn, wrong pattern, bad shedding, size patches, sizing oil, bead formation and wrong weft
- KU34.** Major faults: wrong drawing, wrong denting, end out, double end, temple mark, temple cut, emery hole, emery cut, emery mark, impression mark, reed mark, warp stitches, warp floats, bad selvedge, yarn variation and fabric shade variation
- KU35.** Major faults : wrong drawing, wrong denting, end out, double end, temple mark, temple cut, emery hole, emery cut, emery mark, impression mark, reed mark, warp stitches, warp floats, bad selvedge, yarn variation and fabric shade variation
- KU36.** Cloth width - no minus is accepted & no excess above 0.5 is accepted
- KU37.** Ends per inch - plus or minus 2 is accepted, Picks per inch - plus or minus 1
- KU38.** 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 lengths
- KU39.** Between 40 meters to 79.75 meters - 20% to variation from buyer to buyer, Above 80 meters - 80%
- KU40.** Should know the safety mechanisms of the machines & should ensure that the same are in order
- KU41.** Should know about the stop motions & should ensure that the same are in order
- KU42.** Should know about the functional operations of the machines, where he/she is working

Generic Skills (GS)

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

- GS1.** Write in local as well as in English language clearly
- GS2.** Read and comprehend written instructions and Suggestions
- GS3.** Read any application sent by other colleagues
- GS4.** communicate with supervisor appropriately
- GS5.** talk to others to convey information effectively
- GS6.** Should be able to tie a minimum of 15 knots/minute
- GS7.** One should attend pirn changing with proper pick finding in 30 seconds
- GS8.** One should attend a single warp end through dropper, heald & reed dent in 45 to 60 seconds depending on the automation of the machines/ type of weave, etc.
- GS9.** Should be able to weave fabric free from weaver oriented damages such as wrong drawing, wrong denting, end out, double end etc.

Qualification Pack

- GS10.** Should be able to keep and store the required pirns near the machine in a minimum time
- GS11.** Plan and manage work routine based on instructions from supervisor
- GS12.** Should willingly participate in the various programs/meetings conducted by the superiors & put forth the suggestions in the interest of the company
- GS13.** Participate in the quality circles formed by the superiors
- GS14.** Should extend voluntary supports and adapt to the various procedures that compliances for the different certifications like ISO9001, ISO14001, SA 8001, GOTS certification, fair trade, etc.

Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Taking charge of the shift from power loom operator</i>	25	44	-	8
1. Come at least 10 - 15 minutes earlier to the work spot	-	8	-	-
2. Bring the necessary operational tools like weaver's hook, knife etc.	6	4	-	-
3. Meet the previous shift weaver, discuss with him/ her regarding the issues faced by them with respect to the quality or production or spare or safety or any other specific instruction etc.	3	5	-	2
4. Check for the availability of the weft & the condition of the same	2	3	-	1
5. Check the condition of the running beams, for cross ends, ends pulling out particularly at the selvage	2	4	-	-
6. Check the availability of the thrums, quality & condition of the same	2	3	-	-
7. Check the cloth for the running damages like end out, wrong drawing, wrong denting, double end, reed mark, temple cut/ temple mark, let-off mark, take up fault, oil stain, hole, cloth torn, weft catching, weft lashing-in etc.	3	5	-	-
8. Check for the size of the cloth rolls & see whether any indication is there in the cloth rolls	2	3	-	1
9. Check the cleanliness of the machines & other work areas	2	2	-	1
10. Check whether any spare/raw material/ tool / fabric/ any other material are thrown under the machines or in the other work areas	1	3	-	1
11. Question the previous shift weaver for any deviation in the above and should bring the same to the knowledge of his/ her shift superior as well that of the previous shift as well	2	4	-	2
<i>Hand over the shift from power loom operator</i>	7	11	-	5

Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
12. Hand over the shift to the incoming weaver in a proper manner & get clearance from the incoming counterpart before leaving the work spot	2	4	-	2
13. Report to your shift superior as well as that of the incoming shift, in case counterpart doesn't report for the incoming shift. In that case, the shift has to be properly handed over to the incoming shift superior & get clearance from him/ her, before leaving the work spot	3	3	-	1
14. Report to your shift superior about the quality / production / safety issues/ any other issues faced in your shift and leave the department only after getting his/ her concurrence for the same	2	4	-	2
NOS Total	32	55	-	13

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	TSC/N2215
NOS Name	Taking charge of shift and handing over shift to Power Loom Operator
Sector	Textile
Sub-Sector	Weaving
Occupation	Weaving
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	24/04/2016
Next Review Date	24/04/2018
NSQC Clearance Date	

Qualification Pack

TSC/N2216: Running the power loom

Description

This unit provides performance criteria, knowledge & understanding and skills & abilities required to run a plain power loom, by attending to warp breakages, weft breakages so as to get maximum output & minimum defects

Scope

This unit/task covers the following:

- To join the threads using the method of Weaver's knot
- Corrective method of warp breaks
- Corrective method of weft breaks
- Reserve pirns storage
- Other work practices

Elements and Performance Criteria

To join the threads using the method of Weaver's knot

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

1. Make tiny & firm weaver's knots

Corrective method of warp break

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

2. Find out broken warp ends
3. Find out the location of the broken end, by bringing the hands under the dropper bars, with mechanical droppers
4. Detect the location by bringing the hands over the droppers, with mechanical / electrical warp stop motion
5. Mend the broken warp end in the sized beams with the thrums of the same count of the sized beams using 'weaver's knots'
6. Draw the mended warp yarn through the healds properly, as per the drawing order prescribed
7. Draw the mended warp yarn through the reed dent properly as per the denting order prescribed
8. See that the sley has been brought to the back centre
9. See that the shuttle is inserted fully in the shuttle box
10. Run the loom by pulling the starting handle with full torque

Corrective method of Weft Break

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

11. See that the sley has to be brought the back centre
12. Take out shuttle from shuttle box
13. Do pick finding
14. Find out the last pick inserted in the produced cloth
15. Tie sley to the back centre, after doing the pick finding

Qualification Pack

16. Insert shuttle into the correct box as per the pick finding done
17. See that the shuttle is inserted fully in the shuttle box
18. Bring the loom to the front centre to see that there is no gap between the reed & the fell of the cloth accordingly take up should be adjusted
19. Bring back the sley to centre
20. See that the shuttle is inserted fully in the shuttle box
21. Run the loom by pulling the starting handle with full torque

Reserve pirns storage

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

22. Store the required quantity of weft pirns in the pirn storage container which is near the machine

Other Work Practices

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

23. Correct the fabric defects like wrong drawing, wrong denting, end out, double end etc., immediately and also ensure that the other fabric defects too are corrected at the earliest before continuing further production
24. Clean the machines & work area, so as to ensure good working atmosphere, without damaging the fabrics in the looms where the cleaning work is carried out as well as in the adjacent & opposite looms should not misuse air can use air for cleaning only in the areas, where it is allowed
25. Unweave the same in case of any floats
26. Run the machine without starting mark or crack
27. Ensure that the loose threads are hanged in higher length (not more than 4 mm) accordingly and trimmed after attending to the warp breaks
28. Patrol the machines and do mending so as to minimize the stoppages
29. Check the warp yarn tension, if required to increase or decrease the warp yarn tension by adjusting the dead weight in the let off motion
30. Ensure the cloth roll size and proper winding. If the fabric length is reached the prescribed length to cut the fabric and empty cloth roll fixed for fresh winding
31. Tie the waist bag & all the waste generated by the weavers are collected in the said waist bag, which can be ultimately disposed in the places/ bins provided at the end of the shift
32. Ensure that the correct weft yarn as per the loom card only is used
33. Ensure 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
34. Avoid pulling out warp ends unnecessarily. If end is getting cut often in the selvedge, the same has to be brought to the notice of the mechanics/ fitters/ superiors & get it corrected
35. Ensure that all the stop motions, preventive mechanisms etc., function properly
36. Ensure that the correct quality of thrums are available & see that the same are properly tied
37. Check the knotted loom for knotting quality, double ends have to be removed. Should report to superiors for any deviation in the same & for any other quality issue
38. Ensure that the looms are stopped for a minimum possible down time due to whatever reason & see that you gets the maximum outputs in your shift
39. Check the fabrics for the defects at least twice in a shift and sign on the cloth both times

Qualification Pack

40. Ensure that the cloth rolls are doffed whenever/ wherever necessary
41. Give preference to safety and do not enter the area, where you are not allowed and do not do a job in which training has not been given
42. Ensure that no raw material/ cloth/ spare/ tool / any other material is thrown under/ near the machines or in the other work areas
43. Check for the reasons for the frequent warp/ weft breaks. The reasons that can be corrected by your self should be corrected, otherwise the same has to be reported to the mechanics/ fitters/ superiors

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** The organization's policies & standard operating procedures (SOP) and its process
- KU2.** Should have an awareness, knowledge of customers
- KU3.** Potential hazards associated with the machines and important safety precautions
- 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 work load study
- KU6.** Details of the various job roles & responsibilities
- KU7.** Documentation and reporting formats
- KU8.** Work targets & reviews 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 team work and 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 material
- KU15.** The minimum quality requirements of the product with respect to permissible/non-permissible time limits
- KU16.** Fabric quality particulars such as ends per inch, picks per inch, fabric width and weave pattern etc.
- KU17.** Yarns from natural fibers - cotton, jute, silk, wool etc.,
- KU18.** Yarns from manmade fibers - polyester, nylon, viscose etc.,
- KU19.** Blended yarns polyester-cotton, polyester-viscose
- KU20.** Hand loom
- KU21.** Power loom - conventional loom
- KU22.** Auto loom - shuttle looms
- KU23.** Plain weave, twill, drill, plain satin, stripe satin, dobby designs and jacquard designs
- KU24.** Shuttle less looms - rapier, projectile, air jet, water jet
- KU25.** Tappet loom/ cam loom/ crank loom, dobby loom, jacquard loom

Qualification Pack

- KU26.** Wrong drawing, wrong denting, end out, double end, broken pick, double pick, missing pick, hand stain, hole, wrong weft, bad selvedge etc.
- 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, starting mark, thin & thick place, hair line crack etc.
- KU28.** Yarn faults - thin place, thick place, neps, kitties, contamination, color flies, yarn variation, shade variation etc.
- KU29.** Sizing faults - shade variation, size patches, sizing oil and bead formation etc.,
- KU30.** Weaving faults - wrong weft, wrong pattern, less width, variation in EPI & PPI Wrong warp etc.
- 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.** Agrade - no cuttable faults, no warp way continuous faults, no 3 major faults and 15 minor points B grade rejection, deviation from a grade
- KU33.** Cuttable faults: hole, let - off, take - up, selvedge cut, weft crack, cloth torn, wrong pattern, bad shedding, size patches, sizing oil, bead formation and wrong weft
- KU34.** Major faults: wrong drawing, wrong denting, end out, double end, temple mark, temple cut, emery hole, emery cut, emery mark, impression mark, reed mark, warp stitches, warp floats, bad selvedge, yarn variation and fabric shade variation
- KU35.** Cloth width - no minus is accepted & no excess above 0.5 is accepted
- KU36.** Ends per inch - plus or minus 2 is accepted, Picks per inch - plus or minus 1
- KU37.** 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 lengths
- KU38.** Between 40 meters to 79.75 meters - 20% to variation from buyer to buyer, Above 80 meters - 80%
- KU39.** Should know the safety mechanisms of the machines & should ensure that the same are in order
- KU40.** Should know about the stop motions & should ensure that the same are in order
- KU41.** Should know about the functional operations of the machines, where he/she is working

Generic Skills (GS)

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

- GS1.** Write in local as well as in English language clearly
- GS2.** Read and comprehend written instructions and Suggestions
- GS3.** Read any application sent by other colleagues
- GS4.** communicate with supervisor appropriately
- GS5.** talk to others to convey information effectively
- GS6.** Should be able to tie a minimum of 15 knots/minute
- GS7.** One should attend pirn changing with proper pick finding in 30 seconds

Qualification Pack

- GS8.** One should attend a single warp end through dropper, heald & reed dent in 45 to 60 seconds depending on the automation of the machines/ type of weave etc.
- GS9.** Should be able to weave fabric free from weaver oriented damages such as wrong drawing, wrong denting, end out, double end etc.
- GS10.** Should be able to keep and store the required pirns near the machine in a minimum time
- GS11.** Plan and manage work routine based on instructions from supervisor
- GS12.** Should willingly participate in the various programs/meetings conducted by the superiors & put forth the suggestions in the interest of the company
- GS13.** Participate in the quality circles formed by the superiors
- GS14.** Should extend voluntary supports and adapt to the various procedures that compliances for the different certifications like ISO9001, ISO14001, SA 8001, GOTS certification, fair trade, etc.

Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>To join the threads using the method of Weaver's knot</i>	2	4	-	-
1. Make tiny & firm weaver's knots	2	4	-	-
<i>Corrective method of warp break</i>	15	30	-	5
2. Find out broken warp ends	2	4	-	-
3. Find out the location of the broken end, by bringing the hands under the dropper bars, with mechanical droppers	-	6	-	-
4. Detect the location by bringing the hands over the droppers, with mechanical / electrical warp stop motion	1	2	-	1
5. Mend the broken warp end in the sized beams with the thrums of the same count of the sized beams using 'weaver's knots'	2	3	-	1
6. Draw the mended warp yarn through the healds properly, as per the drawing order prescribed	2	3	-	1
7. Draw the mended warp yarn through the reed dent properly as per the denting order prescribed	2	3	-	1
8. See that the sley has been brought to the back centre	2	2	-	1
9. See that the shuttle is inserted fully in the shuttle box	2	3	-	-
10. Run the loom by pulling the starting handle with full torque	2	4	-	-
<i>Corrective method of Weft Break</i>	21	40	-	6
11. See that the sley has to be brought the back centre	2	2	-	-
12. Take out shuttle from shuttle box	2	3	-	1
13. Do pick finding	-	3	-	1

Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
14. Find out the last pick inserted in the produced cloth	2	4	-	-
15. Tie sley to the back centre, after doing the pick finding	2	3	-	-
16. Insert shuttle into the correct box as per the pick finding done	2	3	-	-
17. See that the shuttle is inserted fully in the shuttle box	-	6	-	-
18. Bring the loom to the front centre to see that there is no gap between the reed & the fell of the cloth accordingly take up should be adjusted	3	4	-	-
19. Bring back the sley to centre	3	3	-	-
20. See that the shuttle is inserted fully in the shuttle box	2	4	-	2
21. Run the loom by pulling the starting handle with full torque	3	5	-	2
<i>Reserve pirns storage</i>	2	4	-	2
22. Store the required quantity of weft pirns in the pirn storage container which is near the machine	2	4	-	2
<i>Other Work Practices</i>	64	65	-	15
23. Correct the fabric defects like wrong drawing, wrong denting, end out, double end etc., immediately and also ensure that the other fabric defects too are corrected at the earliest before continuing further production	1	3	-	-
24. Clean the machines & work area, so as to ensure good working atmosphere, without damaging the fabrics in the looms where the cleaning work is carried out as well as in the adjacent & opposite looms should not misuse air can use air for cleaning only in the areas, where it is allowed	2	4	-	2
25. Unweave the same in case of any floats	2	4	-	1

Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
26. Run the machine without starting mark or crack	2	4	-	2
27. Ensure that the loose threads are hanged in higher length (not more than 4 mm) accordingly and trimmed after attending to the warp breaks	2	3	-	2
28. Patrol the machines and do mending so as to minimize the stoppages	-	6	-	-
29. Check the warp yarn tension, if required to increase or decrease the warp yarn tension by adjusting the dead weight in the let off motion	2	3	-	1
30. Ensure the cloth roll size and proper winding. If the fabric length is reached the prescribed length to cut the fabric and empty cloth roll fixed for fresh winding	2	3	-	1
31. Tie the waist bag & all the waste generated by the weavers are collected in the said waist bag, which can be ultimately disposed in the places/ bins provided at the end of the shift	5	3	-	-
32. Ensure that the correct weft yarn as per the loom card only is used	5	3	-	-
33. Ensure 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	4	2	-	-
34. Avoid pulling out warp ends unnecessarily. If end is getting cut often in the selvedge, the same has to be brought to the notice of the mechanics/ fitters/ superiors & get it corrected	3	3	-	-
35. Ensure that all the stop motions, preventive mechanisms etc., function properly	3	2	-	-
36. Ensure that the correct quality of thrums are available & see that the same are properly tied	5	3	-	-
37. Check the knotted loom for knotting quality, double ends have to be removed. Should report to superiors for any deviation in the same & for any other quality issue	6	2	-	1

Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
38. Ensure that the looms are stopped for a minimum possible down time due to whatever reason & see that you gets the maximum outputs in your shift	5	2	-	1
39. Check the fabrics for the defects at least twice in a shift and sign on the cloth both times	5	5	-	-
40. Ensure that the cloth rolls are doffed whenever/ wherever necessary	3	3	-	-
41. Give preference to safety and do not enter the area, where you are not allowed and do not do a job in which training has not been given	2	2	-	1
42. Ensure that no raw material/ cloth/ spare/ tool / any other material is thrown under/ near the machines or in the other work areas	3	3	-	2
43. Check for the reasons for the frequent warp/ weft breaks. The reasons that can be corrected by your self should be corrected, otherwise the same has to be reported to the mechanics/ fitters/ superiors	2	2	-	1
NOS Total	104	143	-	28

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	TSC/N2216
NOS Name	Running the power loom
Sector	Textile
Sub-Sector	Weaving
Occupation	Weaving
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	24/04/2016
Next Review Date	24/04/2018
NSQC Clearance Date	

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

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>	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
NSQC 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

Qualification Pack

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:

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>	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

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>	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:

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>	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

TSC/N7904: Operation and Maintenance of solar attachment

Description

The unit deals with necessary skills, knowledge and attributes required by an operator to run the machine equipped with solar power drive

Scope

This unit/task covers the following:

- Preparing the machine for operation
- Ensure proper maintenance of solar attachment

Elements and Performance Criteria

Preparing the machine for operation

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

1. clear the weed/ Grass near the solar panels if any
2. clean the surface of the solar panel for dust with wet sponge/cloth
3. ensure the charge controller, batteries are working properly as instructed
4. prepare solar powered handloom/ khadi machine for operation
5. switch on the main motor and start the machine for production

Ensuring proper maintenance of solar attachment

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

6. check periodically for the working of light indicators and display panel for voltage fluctuation
7. ensure that the battery is kept at a dry place
8. check the electrolyte level of battery and top up the electrolyte whenever required
9. check for electrolyte/ distilled water leak from batteries
10. clean the battery at prescribed intervals for fluff accumulation
11. clean the inverter, battery charger and charge controller for fiber dust
12. inspect and ensure the cleanliness of solar panel and terminal boxes
13. use PPEs while topping up of distilled water and cleaning
14. use appropriate tools such as cloth, brush for cleaning various parts of the power system

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** policies and procedures followed in the workplace relevant to own employment and performance conditions
- KU2.** relevant health and safety requirements applicable in the work place
- KU3.** importance of following health, hygiene, safety and quality standards and the impact of non-compliance of the standards on consumers and the business

Qualification Pack

- KU4.** own job role and responsibilities and sources for information pertaining to employment terms, compensation, job role and responsibilities
- KU5.** relevant people and their responsibilities within the work area
- KU6.** various categories of people that one is required to communicate and coordinate within the organization
- KU7.** various types of batteries with their capacity ratings
- KU8.** main components of solar power system like solar panel, charge controller, battery, inverter etc.
- KU9.** AC and DC power supply
- KU10.** maintenance schedules of solar panel and other components
- KU11.** wiring and power terminals
- KU12.** buzzers, alarms and their indications
- KU13.** Personal Protective Equipment (PPE) and their importance
- KU14.** electrolyte, distilled water and its uses
- KU15.** different ways of minimizing waste
- KU16.** common faults and the methods to rectify the solar components
- KU17.** hazards likely to be encountered when conducting routine maintenance
- KU18.** different types of cleaning substances and their use
- KU19.** safe working practices for cleaning and the methods of carrying them out

Generic Skills (GS)

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

- GS1.** write instructions for communication, production data entry etc.
- GS2.** read technical specifications and instructions of the solar powered machine
- GS3.** talk to others and convey the information effectively
- GS4.** plan and perform the maintenance activity of solar power system/ machine
- GS5.** Repair the minor problems within the level of responsibility

Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Preparing the machine for operation</i>	5	11	-	-
1. clear the weed/ Grass near the solar panels if any	1	2	-	-
2. clean the surface of the solar panel for dust with wet sponge/cloth	1	2	-	-
3. ensure the charge controller, batteries are working properly as instructed	1	2	-	-
4. prepare solar powered handloom/ khadi machine for operation	1	3	-	-
5. switch on the main motor and start the machine for production	1	2	-	-
<i>Ensuring proper maintenance of solar attachment</i>	12	22	-	-
6. check periodically for the working of light indicators and display panel for voltage fluctuation	2	3	-	-
7. ensure that the battery is kept at a dry place	1	3	-	-
8. check the electrolyte level of battery and top up the electrolyte whenever required	2	3	-	-
9. check for electrolyte/ distilled water leak from batteries	2	3	-	-
10. clean the battery at prescribed intervals for fluff accumulation	1	2	-	-
11. clean the inverter, battery charger and charge controller for fiber dust	1	2	-	-
12. inspect and ensure the cleanliness of solar panel and terminal boxes	1	2	-	-
13. use PPEs while topping up of distilled water and cleaning	1	2	-	-
14. use appropriate tools such as cloth, brush for cleaning various parts of the power system	1	2	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
NOS Total	17	33	-	-

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	TSC/N7904
NOS Name	Operation and Maintenance of solar attachment
Sector	Textile
Sub-Sector	Handloom & Khadi
Occupation	Handloom Weaving
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	09/08/2017
Next Review Date	09/08/2020
NSQC Clearance Date	

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/N2215.Taking charge of shift and handing over shift to Power Loom Operator	32	55	-	13	100	15
TSC/N2216.Running the power loom	104	143	-	28	275	42
TSC/N9001.Maintain work area, tools and machines	17	20	-	13	50	7
TSC/N9002.Working in a team	19	20	-	11	50	7

Qualification Pack

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	15
TSC/N9004.Comply with industry and organizational requirement	15	20	-	15	50	7
Total	219	298	-	108	625	93

Optional: 1 Solar power drive attachment

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
TSC/N7904.Operation and Maintenance of solar attachment	17	33	-	-	50	7
Total	17	33	-	-	50	7

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.

Qualification Pack

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.