

Model Curriculum

Two shaft Handloom Weaver

SECTOR: TEXTILE
SUB-SECTOR: TWO SHAFT HANDLOOM WEAVER
OCCUPATION: WEAVER
REF. ID: TSC/Q 7303, VERSION 1.0
NSQF LEVEL: 4



Skill India
शिक्षण विद्या - कुशल भवितुम्



Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

TEXTILE SECTOR SKILL COUNCIL

for the

MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/ Qualification Pack: 'TWO SHAFT HANDLOOM WEAVER' QP No. 'TSC/ Q 7303' **NSQF Level 4'**

Date of Issuance: **January, 18th, 2016**

Valid up to: **January 17th, 2017**

* Valid up to the next review date of the Qualification Pack



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(Textile Sector Skill Council)

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TWO SHAFT HANDLOOM WEAVER

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a "Two shaft handloom weaver", in the "Textile" Sector/Industry and aims at building the following key competencies amongst the learner.

Program Name	Two Shaft Handloom Weaver		
Qualification Pack Name & Reference ID.	Two Shaft Handloom Weaver, TSC/Q7303, version 1.0		
Version No.	1.0	Version Update Date	18-01-2016
Pre-requisites to Training	Preferably equivalent to 10 th standard		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Carry out pre weaving activities • Learn and familiar to operate the loom machine • Contribute to achieve quality in handloom weaving • Maintain work area, tools and machines • Gain behavioral skill for team working • Maintain health, safety and security at work place • Comply with industry and organizational requirement 		

This course encompasses 7 out of 7 National Occupational Standards (NOS) of "Two shaft handloom weaver" Qualification Pack issued by "TSC: Textile Sector Skill Council"

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Carry out pre weaving activities</p> <p>Theory Duration (hh:mm) 29:00</p> <p>Practical Duration (hh:mm) 57:00</p> <p>Corresponding NOS Code TSC/N 7305</p>	<ul style="list-style-type: none"> • Gait the warp sheet properly and keep the warp sheet in proper tension • Check the shedding, picking and beating mechanisms • Check the let-off and take- up mechanisms • Check the condition of the warp beam, for cross ends, ends pulling out particularly at the selvedge • Check the cleanliness of the machines and other work areas • Check whether any spare/raw material/ tool / fabric/ any other material are thrown under the machines or in the other work areas. • Ensure that the attached warp is drafted and dented as per the instructions and design specifications provided • Keep the number of shuttles required ready and its loading with proper colour of pirns • Check the availability of the filled pirns and the condition of the same • Check the tip of the shuttle • Attach the free end of warp with cloth beam properly • Read the given design • Analyse and interpret the given design (plain or its variations) which needs to be woven PC14. Place the filled pirns in the shuttle properly • Place the filled pirns in the shuttle properly 	<p><u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
2	<p>Operate the loom</p> <p>Theory Duration (hh:mm) 27:30</p> <p>Practical Duration (hh:mm) 58:00</p> <p>Corresponding NOS Code TSC/N 7306</p>	<ul style="list-style-type: none"> • Carry-out the primary weaving operations: <ol style="list-style-type: none"> a. Shedding b. Picking c. Beating • Carry-out the secondary weaving operations: <ol style="list-style-type: none"> a. Take-up b. Let-off • Carry out the auxiliary weaving operations: <ol style="list-style-type: none"> a. Temple motion b. Shuttle changing • Refer and follow the specifications in case of any doubt • Use the correct tools and materials • Ensure that proper tension on warp is maintained • Check that the materials to be used are free from faults, in case of any, repair fault • Conform to the specified quality standards of weaving • Identify any damaged work and rectify it • Leave the work area safe and secure when work is complete free from hazards 	<p><u>1. common for every batch:</u> Handloom weaving machine</p> <p><u>2. Class room requirements:</u> 25 people seating capacity with a screen and projector</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
3	<p>Contribute to achieve quality in handloom weaving Theory Duration (hh:mm) 06:00 Practical Duration (hh:mm) 15:30 Corresponding NOS Code TSC/N 7307</p>	<ul style="list-style-type: none"> Identify and use raw materials as per the specifications provided Identify faulty materials and component parts and get them rectified Identify mendable defects and rework on them Make adjustments promptly to ensure the hand-woven fabric matches the specification Carry out work safely and at a rate which maintains required work flow Carry out quality checks at specified intervals according to the specifications Apply the allowed tolerances Identify materials and components which can cause crease, stain and damage 	<p>1. Classroom requirements: 25 people seating capacity with a screen and projector</p>
4	<p>Maintain work area tools and machines in Handloom Sector Theory Duration (hh:mm) 08:00 Practical Duration (hh:mm) 13:30 Corresponding NOS Code TSC/N 9005</p>	<ul style="list-style-type: none"> Handle materials and tools safely and correctly Use correct lifting and handling procedures Use materials in a manner to minimize waste Maintain a clean and hazard free working area Maintain the tools and equipment used for warping Carry out maintenance and/or cleaning within one's responsibility Identify damaged tools and materials and take action according to the standards followed Ensure that the correct tools and yarn required are in place Work with the correct posture Use cleaning equipment and methods appropriate for the work to be carried out Dispose of waste safely in the designated location Store cleaning equipment safely after use Carry out cleaning according to schedule and limits of responsibility 	<p><u>Class room requirements:</u> 25 people seating capacity with a screen and projector</p>
5	<p>Working in a team in handloom sector Theory Duration (hh:mm) 08:00 Practical Duration (hh:mm) 13:30 Corresponding NOS Code TSC/N 9006</p>	<ul style="list-style-type: none"> Be accountable to one's own role in the whole process Perform all roles with full responsibility Be effective and efficient at workplace Properly communicate about workplace policies Talk politely with other team members and colleagues Submit daily report of own performance Adjust in different work situations Give due importance to others' point of view Avoid conflicting situations Improve upon the existing techniques to increase process efficiency 	<p><u>Class room requirements:</u> 25 people seating capacity with a screen and projector</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
6	<p>Maintain health, safety and security at work place in handloom sector Theory Duration (hh:mm) 13:30</p> <p>Practical Duration (hh:mm) 29:30</p> <p>Corresponding NOS Code TSC/N 9007</p>	<ul style="list-style-type: none"> • Comply with health and safety related instructions applicable to the workplace • Use and maintain personal protective equipment as per protocol • Carry out own activities in line with approved guidelines and procedures • Maintain a healthy lifestyle and guard against dependency on in toxicants • Follow environment management system related procedures • Store materials and tools in line with manufacturer’s and Cooperative Society/NGO/SHG requirements • Safely handle and move waste and debris • Minimize health and safety risks to self and others due to own actions • Monitor the work place and work processes for potential risks and threats • Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned • Participate in mock drills/ evacuation procedures organized at the workplace • Undertake first aid, fire-fighting and emergency response training, if asked to do so • Take action based on instructions in the event of fire, emergencies or accidents • Follow Cooperative Society/NGO/SHG procedures for evacuation when required • Identify different kinds of possible hazards (environmental, personal, ergonomic and chemical) of the industry • Recognize other possible security issues existing in the workplace • Plan the safety techniques • Recognize different measures to curb the hazards • Implement the programs • Communicate the safety plans to everyone • Attach disciplinary rules with the implementation 	<p><u>1. A sample of following items for each trainee:</u> apron, head cap, nose mask, ear plug, shoe</p> <p><u>2. common for every batch:</u> first aid materials, fire extinguisher, work method posters/pictures</p> <p><u>3. Class room requirements:</u> 25 people seating capacity with a screen and projector</p>

7	<p>Comply with work place requirements in handloom sector</p> <p>Theory Duration (hh:mm) 08:00</p> <p>Practical Duration (hh:mm) 13:00</p> <p>Corresponding NOS Code TSC/N 9008</p>	<ul style="list-style-type: none"> • Perform own duties effectively • Take responsibility for own actions • Be accountable towards the job role and assigned duties • Take initiative and innovate the existing methods • Focus on self-learning and improvement • Co-ordinate with all team members and colleagues • Communicate politely • Avoid conflicts and miscommunication • Know the organizational standards • Implement them in your performance • Motivate others to follow them 	<p><u>Class room requirements:</u> 25 people seating capacity with a screen and projector</p>
	<p>Total Duration:</p> <p>Theory Duration 100:00</p> <p>Practical Duration 200:00</p>	<p>Unique Equipment Required:</p> <ul style="list-style-type: none"> • Fabric samples, required chemicals • Stenter machine, squeezing rollers, PH metr scale, temperature sensor scissor, width measuring device, pen/pencil/marker • Inspection table, weighing balance, trolley • Apron, head cap, nose mask, ear plug, shoe, first aid materials, fire extinguisher, work method posters, work method video visuals, projector, screen 	

Grand Total Course Duration: 300 Hours, 0 Minutes

(This syllabus/ curriculum has been approved by TSC: Textile Sector Skill Council)

Trainer Prerequisites for Job role: “Two Shaft Handloom Weaver” mapped to Qualification Pack: “Two Shaft Handloom Weaver /TSC Q 7303, Version 1.0”

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “Two Shaft Handloom Weaver /TSC Q7303,
2	Personal Attributes	Aptitude for conducting training, and pre/ post work to ensure competent, employable candidates at the end of the training. Strong communication skills, interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well-organized and focused, eager to learn and keep oneself updated with the latest in the mentioned field.
3	Minimum Educational Qualifications	Preferably equivalent to 10th (Normal literacy of reading, writing and understanding)
4a	Domain Certification	Certified for Job Role: “Two Shaft Handloom Weaver” mapped to QP: “Two Shaft Handloom Weaver/TSC Q7303, Version 1.0”. Minimum accepted score 80%.
4b	Platform Certification	Required that the Trainer is certified for SSC/Q 1402 Job Role: “Trainer” with atleast 80% score
5	Experience	Minimum 2 years’ experience with Two Shaft Handloom Weaver

Annexure: Assessment Criteria

Assessment Criteria for Packing Checker	
Job Role	Two Shaft Handloom Weaver
Qualification Pack	Two Shaft Handloom Weaver (TSC/Q 7303)
Sector Skill Council	Textile Sector Skill Council

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

National Occupational Standards(NOS)	Performance Criteria (PO)	Total Marks	Out of	Marks Allocation	
				Theory	Skills Practical /Viva
TSC/N 7305 (Carry out pre weaving activities)	PC1. Gait the warp sheet properly and keep the warp sheet in proper tension.	200	24	6	18
	PC2. Check the Shedding, Picking and Beating mechanisms		10	4	6
	PC3. Check the Let-off and Take-up mechanisms		10	4	6
	PC4. Check the condition of the warp beam, for cross ends, ends pulling out particularly at the selvage		10	4	6
	PC5. Check the cleanliness of the machines and other work areas		10	4	6
	PC6. Check whether any spare/raw material/ tool / fabric/ any other material are thrown under the machines or in the other work areas.		10	4	6
	PC7. Ensure that the attached warp is drafted and dented as per the instructions and design specifications provided		15	6	9
	PC8. Keep ready number of shuttles required and its loading with proper colour of pirns.		15	5	10
	PC9. Check for the availability of the filled pirns and the condition of the same		10	4	6
	PC10. Check the tip of shuttle.		10	4	6
	PC11. Attach the free end of warp with cloth beam properly		20	6	14
	PC12. Read the given design		15	6	9
	PC13. Analyze and interpret the given design (plain or its variations) which needs to be woven		26	8	18
	PC14. Place the filled pirns in the shuttle properly		15	5	10
Total	200	200	70	130	
TSC/N 7306 (Operate the loom)	PC1. Carry-out the primary weaving operations:	200	28	6	22
	o Shedding				
	o Picking				
	o Beating				

National Occupational Standards(NOS)	Performance Criteria (PO)	Total Marks	Out of	Marks Allocation	
				Theory	Skills Practical /Viva
	PC2.Carry-out the secondary weaving operations:		27	10	17
	o Take-up				
	o Let-off				
	PC3.Carry –out the auxiliary weaving operations:		28	8	20
	• Temple motion				
	• Shuttle changing				
	PC4.Refer and follow the specifications in case of any doubt.		15	6	9
	PC5.Use the correct tools and materials		18	7	11
	PC6.Ensure that proper tension on warp is maintained		20	8	12
	PC7. Check that the materials to be used are free from faults, in case of any, repair faults		18	5	13
	PC8.Conform to the specified quality standards of weaving		16	8	8
	PC9.Identify any damaged work and rectify it		20	4	16
	PC10.Leave the work area safe and secure when work is complete free from hazards		10	4	6
	Total	200	200	66	134
TSC/N 7307 (Contribute to achieve quality in handloom weaving)	PC1.Identify and use raw materials as per the specifications provided	50	8	2	6
	PC2.Identify faulty materials and component parts and get it rectified		8	2	6
	PC3.Identify mendable defects and rework on them		8	2	6
	PC4.Make adjustments promptly to ensure the hand-woven fabric matches the specification		4	1	3
	PC5.Carry out work safely and at a rate which maintains required work flow		4	1	3
	PC6.Carry out quality checks at specified intervals according to specifications		4	1	3

National Occupational Standards(NOS)	Performance Criteria (PO)	Total Marks	Out of	Marks Allocation	
				Theory	Skills Practical /Viva
	PC7.Apply the allowed tolerances		8	3	5
	PC8.Identify materials and components which can cause crease, stain, damage		6	2	4
	Total	50	50	14	36
TSC/N 9005 (Maintain work area, tools and machines in handloom sector)	PC1.Handle materials and tools safely and correctly	50	5	2	3
	PC2.Use correct lifting and handling procedures		3	1	2
	PC3.Use materials to minimize waste		3	1	2
	PC4.Maintain a clean and hazard free working area		3	1	2
	PC5.Maintain the tools used for winding		5	2	3
	PC6.Carry out maintenance and/or cleaning		5	2	3
	PC7.Identify damaged tools and materials and take action according to the standards followed		5	2	3
	PC8.Ensure that the correct tools and yarn required are in place		3	1	2
	PC9.Work with the correct posture		3	1	2
	PC10.Use cleaning equipment and methods appropriate for the work to be carried out		3	1	2
	PC11.Dispose of waste safely in the designated location		4	2	2
	PC12.Store cleaning equipment safely after use		3	1	2
	PC13.Carry out cleaning according to schedule and limits of responsibility		5	2	3
Total	50	50	19	31	
TSC/N 9006 (Working in a	PC1.Be accountable to the own role in whole process	50	6	2	4

National Occupational Standards(NOS)	Performance Criteria (PO)	Total Marks	Out of	Marks Allocation	
				Theory	Skills Practical /Viva
team in handloom sector)	PC2.Perform all roles with full responsibility		5	1	4
	PC3.Be effective and efficient at workplace		4	2	2
	PC4.Properly communicate about workplace policies		5	2	3
	PC5.Talk politely with other team members and colleagues		5	2	3
	PC6.Submit daily report of own performance		6	2	4
	PC7.Adjust in different work situations		5	2	3
	PC8.Give due importance to others' point of view		5	2	3
	PC9.Avoid conflicting situations		5	2	3
	PC10.Improve upon the existing techniques to increase process efficiency		4	2	2
	Total		50	50	19
TSC/N 9007 (Maintain health, safety and security at workplace in handloom sector)	PC1.Comply with health and safety related instructions applicable to the workplace	100	6	2	4
	PC2.Use and maintain personal protective equipment as per protocol		6	2	4
	PC3.Carry out own activities in line with approved guidelines and procedures		4	1	3
	PC4.Maintain a healthy lifestyle and guard against dependency on intoxicants		4	1	3
	PC5.Follow environment management system related procedures		4	1	3
	PC6.Store materials and tools in line with manufacturer's and Cooperative Society/NGO/SHG requirements		4	2	2
	PC7.Safely handle and move waste and debris		4	2	2
	PC8.Minimize health and safety risks to self and others due to own actions		6	2	4
	PC9.Monitor the work place and work processes for potential risks and threats		6	2	4
	PC10.Carry out periodic walk –through to keep work area free from hazards and obstructions, if		6	2	4

National Occupational Standards(NOS)	Performance Criteria (PO)	Total Marks	Out of	Marks Allocation	
				Theory	Skills Practical /Viva
	assigned				
	PC11.Participate in mock drills/ evacuation procedures organized at the workplace		4	2	2
	PC12.Undertake first aid, fire-fighting and emergency response training, if asked to do so		6	2	4
	PC13.Take action based on instructions in the event of fire, emergencies or accidents		6	2	4
	PC14.Follow Cooperative Society/NGO/SHG procedures for evacuation when required		4	1	3
	PC15.Identify different kinds of possible hazards (environmental, personal, ergonomic, and chemical) of the industry		4	1	3
	PC16.Recognise other possible security issues existing in the workplace		4	1	3
	PC17.Planning the safety techniques		5	2	3
	PC18.Recognise different measures to curb the hazards		4	1	3
	PC19.Implementing the programs		5	2	3
	PC20.Communicate the safety plan to everyone		4	1	3
	PC21.Attach disciplinary rules with the implementation		4	1	3
	Total	100	100	33	67
TSC/N 9008 (Comply with work place requirements in handloom sector)	PC1.Perform own duties effectively	50	5	2	3
	PC2.Take responsibility for own actions		5	2	3
	PC3.Be accountable towards the job role and assigned duties		5	2	3
	PC4.Take initiative and innovate the existing methods		3	1	2
	PC5.Focus on self-learning and improvement		5	2	3
	PC6.Co-ordinate with all the team members and colleagues		5	2	3

National Occupational Standards(NOS)	Performance Criteria (PO)	Total Marks	Out of	Marks Allocation	
				Theory	Skills Practical /Viva
	PC7.Communicate politely		5	2	3
	PC8.Avoid conflicts and miscommunication		5	2	3
	PC9.Know the organisational standards		5	2	3
	PC10.Implement them in your performance		5	2	3
	PC11.Motivate others to follow them		2	1	1
	Total	50	50	20	30
	Grand Total	700	700	241	459



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