

Model Curriculum

Jacquard Weaver- Handloom

SECTOR: TEXTILE

SUB-SECTOR: HANDLOOM

OCCUPATION: WEAVING

REF ID: TSC/ Q 7306 V1.0

NSQF LEVEL: 4



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: **Jacquard Weaver- Handloom**
QP No. 'TSC/ Q 7306' **NSQF Level 4'**

Date of Issuance: **January, 15th, 2016**

Valid up to **April 15th, 2019**

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



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Director (C&T)
(Textile Sector Skill Council)

TABLE OF CONTENTS

1. Curriculum	01
2. Trainer Prerequisites	05
3. Annexure: Assessment Criteria	06

Jacquard Weaver- Handloom

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Qualifications Pack – Jacquard Weaver- Handloom”, in the “Textile” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Qualifications Pack – Jacquard Weaver- Handloom		
Qualification Pack Name & Reference ID.	Qualifications Pack – Jacquard Weaver- Handloom TSC/Q7306, version 1.0		
Version No.	1.0	Version Update Date	15-01-2016
Pre-requisites to Training	Preferably equivalent to 5th (Normal literacy of reading, writing and understanding)		
Training Outcomes	<ul style="list-style-type: none"> • This unit is about the techniques necessary for pre-weaving activities— checking and ensuring of the drafts, denting, filling pirns and looms, and analysing the design. • This unit refers to the necessary skills, knowledge and attributes required for jacquard weaving on handloom. • This unit provides performance criteria, knowledge, understanding, skills and abilities required to organize/maintain work area and activities to ensure tools used for winding are maintained as per norms. • This unit is about working in a team in a handloom sector. • This unit provides performance criteria, knowledge, understanding, skills and 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 • This unit is about knowing, understanding and complying with work place requirements in handloom sector. 		

This course encompasses 6 out of 6 National Occupational Standards (NOS) of “Qualifications Pack – Jacquard Weaver- Handloom ” Qualification Pack issued by “TSC: Textile Sector Skill Council”

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Undertake pre-weaving activities for jacquard weaving-handloom</p> <p>Theory Duration (hh:mm) 30:00</p> <p>Practical Duration (hh:mm) 70:00</p> <p>Corresponding NOS Code TSC/N 7308</p>	<ul style="list-style-type: none"> • gait the warp sheets properly • maintain proper tension of the warp sheet to facilitate weaving by checking let-off and take-up • check shedding, picking and beating mechanisms of the loom • ensure good condition of the warp beam—for cross ends, missing ends, and ends pulling out particularly at the selvedge • maintain cleanliness of the machines and workplace • ensure the attached warp is drafted and dented as per the instructions and design specifications • keep the required number of shuttles ready with properly loaded coloured pirns as per the design specifications • check the availability of filled pirns • ensure proper condition of the tip of the shuttle • analyze and interpret the jacquard design to be woven—plain or its variations, number of repeats, etc. 	<p><u>Common for every batch:</u> Jacquard weaving Handloom machine, suitable yarn package, empty fabric rolls</p> <p><u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
2	<p>Operate the handloom for jacquard weaving</p> <p>Theory Duration (hh:mm) 30:00</p> <p>Practical Duration (hh:mm) 70:00</p> <p>Corresponding NOS Code TSC/N 7309</p>	<ul style="list-style-type: none"> • separate the warp threads into two layers to form a shed as per the designs on the jacquard cards by using treadles • pass the weft thread, which traverses across the fabric, through the shed by a shuttle • push the newly inserted length of weft or pick, into the already woven fabric at a point known as the fell of the cloth • maintain constant warp tension during weaving by adjusting the let-off and take-up as and when required • adjust the wooden staves assembly to maintain correct fabric width and place it near the fell of the cloth • stop the machine when a filling yarn breaks and ensure proper mending of the broken warp threads by joining (twisting) • insert the shuttle at the place where the weft gets broken • change the shuttle as per the jacquard design specifications • weave as per pattern or design repeat • 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 • inspect hand-woven fabrics against design specifications • identify any damaged work and rectify it • leave the work area safe and secure when work is complete free from hazards 	<p><u>Common for every batch:</u> Jacquard weaving Handloom machine, suitable yarn package, empty fabric rolls</p> <p><u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>

3	<p>Maintain work area and tools in handloom sector</p> <p>Theory Duration (hh:mm) 08:00</p> <p>Practical Duration (hh:mm) 12:00</p> <p>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 winding • 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 in 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 	<p><u>1. common for every batch:</u> poster/video visuals for work method</p> <p><u>2. Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
4	<p>Working in a team in handloom sector</p> <p>Theory Duration (hh:mm) 08:00</p> <p>Practical Duration (hh:mm) 12:00</p> <p>Corresponding NOS Code TSC/N 9006</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>1. common for every batch:</u> poster/video visuals for work method</p> <p><u>2. Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>

5	<p>Maintain health, safety and security at work place in handloom sector</p> <p>Theory Duration (hh:mm) 16:00</p> <p>Practical Duration (hh:mm) 24:00</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 intoxicants • 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>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
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6	<p>Comply with work place requirements in handloom sector</p> <p>Theory Duration (hh:mm) 08:00</p> <p>Practical Duration (hh:mm) 12:00</p> <p>Corresponding NOS Code TSC/N 9008</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 work place 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>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>
	<p>Total Duration: 300:00</p> <p>Theory Duration 100:00</p> <p>Practical Duration 200:00</p>	<p>Unique Equipment Required: Jacquard weaving Handloom machine, suitable yarn package, empty fabric rolls apron, head cap, nose mask, ear plug, shoe, first aid materials, fire extinguisher, work method posters, work method video visuals, projector, screen</p>	

Grand Total Course Duration: **300 Hours, 0 Minutes**

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

Annexure: Assessment Criteria

ASSESSMENT CRITERIA

Job Role: Jacquard Weaver-Handloom

Qualification Pack: TSC/Q7306

Sector Skill Council: Textile Sector Skill Council

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 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 this criteria.
5. To pass the Qualification Pack, every trainee should score a minimum of 70% in aggregate.
6. The marks are allocated PC wise, however, every NOS will carry a weightage in the total marks allocated to the specific QP.

Assessable Outcomes	Assessment Criteria	Total Marks	Out of	Theroy	Practical Skills
TSC/N7308 Undertake pre-weaving activities for jacquard weaving handloom	PC1. gait the warp sheets properly	200	20	6	14
	PC2. maintain proper tension of the warp sheet to facilitate weaving by checking let-off and take-up		20	6	14
	PC3. check shedding, picking and beating mechanisms of the loom		20	6	14
	PC4. ensure good condition of the warp beam		20	6	14
	PC5. maintain cleanliness of the machines and workplace		20	6	14
	PC6. ensure the attached warp is drafted and dented as per the instructions and design specifications		20	6	14
	PC7. keep the required number of shuttles ready with properly loaded coloured pirns as per the design specifications		20	6	14
	PC8. check the availability of filled pirns		20	6	14
	PC9. ensure proper condition of the tip of the shuttle		20	6	14
	PC10. analyze and interpret the jacquard design to be woven		20	6	14
	Total	200	60	140	

TSC/N7309 Operate the handloom for jacquard weaving	PC1. separate the warp threads into two layers to form a shed as per the designs on the jacquard cards by using treadles		20	6	14
	PC2. pass the weft thread, which traverses across the fabric, through the shed by a shuttle		20	6	14
	PC3. push the newly inserted length of weft or pick, into the already woven fabric at a point known as the fell of the cloth	200	20	6	14
	PC4. maintain constant warp tension during weaving by adjusting the let-off and take-up as and when required		20	6	14
	PC5. adjust the wooden staves assembly to maintain correct fabric width and place it near the fell of the cloth		20	6	14
	PC6. stop the machine when a filling yarn breaks and ensure proper mending of the broken warp threads by joining (twisting)		20	6	14
	PC7. insert the shuttle at the place where the weft gets broken		10	3	7
	PC8. change the shuttle as per the jacquard design specifications		10	3	7
	PC9. weave as per pattern or design repeat		10	3	7
	PC10. check that the materials to be used are free from faults, in case of any, repair fault		10	3	7
	PC11. conform to the specified quality standards of weaving		10	3	7
	PC12. inspect hand-woven fabrics against design specifications		10	3	7
	PC13. identify any damaged work and rectify it		10	3	7
	PC14. leave the work area safe and secure when work is complete free from hazards		10	3	7
			Total	200	60
TSC/N9005 Maintain work area and tools 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 in a manner to minimize waste		3	1	2
	PC4. maintain a clean and hazard free working area		3	1	2
	PC5. maintain the tools and equipment used for winding		5	2	3
	PC6. carry out maintenance and/or cleaning within one's responsibility		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 in 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	19	31
TSC/N9006 Working in a team 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 team members and colleagues		5	2	3
	PC7. communicate politely		5	2	3
	PC8. avoid conflicts and miscommunication		5	2	3
	PC9. know the organizational standards		5	2	3
	PC10. implement them in your performance		5	2	3
	PC11. motivate others to follow them		2	1	1
		Total	50	20	30
TSC/N9007 Maintain health, safety and security at work place 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 assigned		6	2	4
	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. recognize other possible security issues existing in the workplace		4	1	3
	PC17. plan the safety techniques		5	2	3
	PC18. recognize different measures to curb the hazards		4	1	3
	PC19. implement the programs		5	2	3
	PC20. communicate the safety plans to everyone		4	1	3
	PC21. attach disciplinary rules with the implementation		4	1	3
		Total	100	33	67
TSC/N9008 Comply with work place requirements in handloom sector	PC1. be accountable to one's own role in the whole process	50	6	2	4
	PC2. perform all roles with full responsibility		5	1	4
	PC3. be effective and efficient at workplace		4	2	2
	PC4. properly communicate about work place 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	19	31

Textile Sector Skill Council

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