







Model Curriculum

Jacquard Harness Builder

SECTOR: TEXTILE

SUB-SECTOR: HANDLOOM & KHADI

OCCUPATION: MAINTENANCE - HANDLOOM

& ACCESSORIES

REF ID: TSC/Q7502 | V3.0

NSQF LEVEL: 2















Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the $\ensuremath{\textbf{TEXTILE}}$

SECTOR SKILL COUNCIL for the

MODEL CURRICULUM

Complying to National Occupational Standards of Job Role/ Qualification Pack: Jacquard Harness Builder QP No. 'TSC/ Q 7502' **NSQF Level 2**'

!š®oos ∵ -∘ Date of Issuance: !š®os · -∘· Valid up to:

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

(Dr. Swapna Mishra)
Director (C&T)
(Textile Sector Skill Council)









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CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a "Qualifications Pack – Jacquard Harness Builder", in the "Textile" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Qualifications Pack - Jacquard Harness Builder				
Qualification Pack Name & Reference ID.	Qualifications Pack – Jacquard Harness Builder TSC/Q7502, version 3.0				
Version No.	3.0 Version Update Date 31.03.2022				
Pre-requisites to Training	Ability to read and write				
Training Outcomes	jacquard harness to the second of the workplace and self and others	puilder to build a harness for performance criteria, know organize/maintain work all re maintained as per norms working in a team in a handle performance criteria, know o comply with health, safe covers procedures to prevenowing, understanding and			









This course encompasses 5 out of 5 National Occupational Standards (NOS) of "Qualifications Pack – Jacquard Harness Builder" Qualification Pack issued by "TSC: Textile Sector Skill Council"

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	Build harness for handloom jacquard weaving Theory Duration (hh:mm) 60:00 Practical Duration (hh:mm) 150:00 Corresponding NOS Code TSC/N 7502	 place the jacquard machine in relation to the loom with card cylinder either on the sides or in the front or back ensure that the long rows of the hooks are at right angle or in parallel to the length of the comber-board when the card cylinder is on the sides or in front/back of the loom respectively cross the harness cords with each other when passing from the neck-cords to the holes in the comber-board if the card cylinder is on the sides of the loom—London/crossed or quarter twist tie check the harness cords do not cross each other when the card cylinder is in front/back of the loom—Norwich or straight tie identify the hook in the row nearest to the head of the cylinder as the first hook distinguish between the types of tie as per the design specifications—single tie and lay-over or repeat tie check the hooks are tied to the harness cords as per the jacquard designs ensure the width of the comber-board is as per quality draw the warp threads through the harness mail eyes place the numbered ends of the laced jacquard cards at the right side of the cylinder for rotation in serial order and design specifications calculate the number of harness mails per unit area dent the warp in the reed sometimes, e.g. 200 threads, 4 split and 200 threads, 2 split maintain uniform distribution of the harness cord on the comber-board calculate the number of harness cord per unit length calculate the number of harness cords to each hook cast-out by leaving empty a portion of the mails in each repeat of the harness as in the reed check the set of harness does not change when tied up change the set of wrap in the reed according to the requirements select rows for cast-out in such a 	1. common for every batch: Jacquard Harness and related tools and punch cards Class room requirements: a batch of 25 people seating capacity with a screen and projector









Sr. No.	Module	Key Learning Outcomes	Equipment Required
2	Maintain work area and tools in handloom sector Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code TSC/N 9005	 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 	1. common for every batch: poster/video visuals for work method 2.Class room requirements: a batch of 25 people seating capacity with a screen and projector
3	Working in a team in handloom sector Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code TSC/N 9006	 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 	1. common for every batch: poster/video visuals for work method 2.Class room requirements: a batch of 25 people seating capacity with a screen and projector









4 Maintain health, safety and security at work place in handloom sector

Theory Duration (hh:mm) 15:00

Practical Duration (hh:mm) 30:00

Corresponding NOS Code TSC/N 9007 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

Class room
requirements: a
batch of 25 people
seating capacity with a
screen and projector









5	Comply with work place requirements in	•	be accountable to one's own role in the whole process	1. A sample of following items
	handloom sector	•	perform all roles with full responsibility	for each trainee: apron,
		•	be effective and efficient at workplace	head cap, nose mask, ear
	Theory Duration	•	properly communicate about work place	plug, shoe,
	(hh:mm)		policies	common for every
	05:00	•	talk politely with other team members	batch: first aid materials,
			and colleagues	fire extinguisher, work
	Practical Duration	•	submit daily report of own performance	method
	(hh:mm)	•	adjust in different work situations	posters/pictures,
	10:00	•	give due importance to others' point of	3. Class room requirements:
			view	25 people seating capacity
	Corresponding	•	avoid conflicting situations	with a screen and projector
	NOS Code	•	improve upon the existing techniques to	
	TSC/N 9008		increase process efficiency	
	100/14 0000		•	









6 Employability Skills (30 Hours)

Theory Duration (hh:mm) 12:00

Practical Duration (hh:mm) 18:00

- Discuss the importance of Employability Skills in meeting the job requirements.
- Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen.
- Show how to practice different environmentally sustainable practices
- Discuss 21st century skills.
- Display positive attitude, self-motivation, problem solving, time management skills and continuous learning mindset in different situations.
- Use appropriate basic English sentences/ phrases while speaking
- Demonstrate how to communicate in a well -mannered way with others.
- Demonstrate working with others in a team
- Show how to conduct oneself appropriately with all genders and PwD
- Discuss the significance of reporting sexual harassment issues in time
- Discuss the significance of using financial products and services safely and securely.
- Explain the importance of managing expenses, income, and savings.
- Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws
- Show how to operate digital devices and use the associated applications and features, safely and securely
- Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely.
- Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges.
- Differentiate between types of customers
- Explain the significance of identifying customer needs and addressing them
- Discuss the significance of maintaining hygiene and dressing appropriately.
- · Create a biodata
- Use various sources to search and apply for jobs
- Discuss the significance of dressing up neatly and maintaining hygiene for an interview
- Discuss how to search and register for apprenticeship opportunities.

Class room requirements: 25 people seating capacity with a screen and projector









Total Duration: 330:00

Theory Duration 102:00

Practical Duration 228:00

Unique Equipment Required:

Jacquard Harness and related tools and punch cards 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: 330 Hours, 0 Minutes

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









Trainer Prerequisites for Job role: "Jacquard Harness Builder" mapped to Qualification Pack: "Jacquard Harness Builder / TSC/Q7502, Version 3.0"

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack "Jacquard Harness Builder / TSC/Q7502, Version 3.0".
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	Basic Literacy and Numeracy
	Educational	
	Qualifications	
4a	Domain Certification	Certified for Job Role: Jacquard Harness Builder" mapped to QP: "Jacquard Harness Builder / TSC/Q7502, Version 3.0". Minimum accepted score 80%.
4b	Platform Certification	Required that the Trainer is certified for MEP/Q2601 Job Role: "Trainer" with at least 80% score
5	Experience	Minimum 6 years' experience in relevant sector

Employability Trainer Prerequisites

Trainer Prerequisites								
Minimum Educational	Specialization Relevant Ind Experience		•	Trainii	ng Experience	Remarks		
Qualification		Years	Specialization	Years Specialization				
Graduate/CITS	Any Discipline			2	Teaching Experience	Prospective ES trainer should:		
Current ITI Trainers	Employability Skills Training (3 days full- time course done between 2019-2022)					 have good communication skills be well versed in English 		
Certified current EEE trainers (155 hours)	from Management SSC (MEPSC)					 have digital skills have attention to detail be adaptable 		
Certified Trainer	Qualification Pack: Trainer (MEP/Q0102)					have willingness to learn		









Annexure: Assessment Criteria

ASSESSMENT CRITERIA

Job Role: Jacquard Harness Builder Qualification Pack: TSC/Q7502

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 50% 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/N7502 Build harness for handloom jacquard	PC1. place the jacquard machine in relation to the loom with card cylinder either on the sides or in the front or back		10	3	7
weaving	PC2. ensure that the long rows of the hooks are at right angle or in parallel to the length of the comberboard when the card cylinder is on the sides or in front/back of the loom respectively		10	3	7
	PC3. cross the harness cords with each other when passing from the neck-cords to the holes in the comber-board if the card cylinder is on the sides of the loom		10	3	7
	PC4. check the harness cords do not cross each other when the card cylinder is in front/back of the loom		10	3	7
	PC5. identify the hook in the row nearest to the head of the cylinder as the first h	200	10	3	7
	PC6. distinguish between the types of tie as per the design specifications		10	3	7
	PC7. check the hooks are tied to the harness cords as per the jacquard designs		10	3	7
	PC8. ensure the width of the comber-board is as per quality		10	3	7









	PC9. draw the warp threads through the harness mail eyes		10	3	7
	PC10. place the numbered ends of the laced jacquard cards at the right side of the cylinder for rotation in serial order and design specifications		10	3	7
	PC11. calculate the number of harness mails per unit area		10	3	7
	PC12. dent the warp in the reed sometimes		10	3	7
	PC13. maintain uniform distribution of the harness cord on the comber-board		10	3	7
	PC14. calculate the number of harness cord per unit length		10	3	7
	PC15. calculate the number of harness cords to each hook		10	3	7
	PC16. cast-out by leaving empty a portion of the mails in each repeat of the harness		10	3	7
	PC17. ensure that the wrap threads should occupy the same width in the harness as in the reed		10	3	7
	PC18. check the set of harness does not change when tied up		10	3	7
	PC19. change the set of wrap in the reed according to the requirements		10	3	7
	PC20. select rows for cast-out in such a manner that they in the same order when counted from either end of the card		10	3	7
		Total	200	60	140
TSC/N9005 Maintain work	PC1. handle materials and tools safely and correctly		5	2	3
area and tools in handloom	PC2. use correct lifting and handling procedures		3	1	2
sector	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	50	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	PC1. perform own duties effectively		5	2	3
Working in a team in	PC2. take responsibility for own actions		5	2	3
handloom sector	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	50	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	PC1. comply with health and safety related instructions applicable to the workplace		6	2	4
health, safety and security at	PC2. use and maintain personal protective equipment as per protocol		6	2	4
work place in handloom sector	PC3. carry out own activities in line with approved guidelines and procedures		4	1	3
Sector	PC4. maintain a healthy lifestyle and guard against dependency on intoxicants		4	1	3
	PC5. follow environment management system related procedures	100	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	PC1. be accountable to one's own role in the whole process		6	2	4
requirements	PC2. perform all roles with full responsibility		5	1	4
in handloom sector	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	50	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









National Occupational Standards (NOS) DGT/VSQ/N0101		Total	Out Of	Marks Allocation		
	Performance Criteria (PC)	Marks		Theory Marks	Practical Marks	
	Introduction to Employability Skills			1	1	
– Employability Skills	1. understand the significance of					
SKIIIS	employability skills in meeting the					
	job requirements					
	Constitutional values – Citizenship			1	1	
	2. identify constitutional values, civic					
	rights, duties, personal values and					
	ethics and environmentally					
	sustainable practices.					
	Becoming a Professional in the 21st			1	3	
	Century			1	3	
	3. explain 21st Century Skills such as					
	Self-Awareness, Behavior Skills,					
	Positive attitude, self-motivation,					
	problem-solving, creative thinking,					
	time management, social and					
	cultural awareness, emotional awareness, continuous learning					
	mindset etc.					
	Basic English Skills			2	3	
	4. speak with others using some basic			2	3	
	English phrases or sentences					
	Communication Skills			1	1	
	5. follow good manners while			1	1	
	communicating with others					
	6. work with others in a team					
	Diversity & Inclusion			1	1	
	7. communicate and behave			1	1	
	appropriately with all genders and					
	PwD					
	8. report any issues related to sexual					
	harassment					
	Financial and Legal Literacy			3	4	
	9. use various financial products and					
	services safely and securely					
	10. calculate income, expenses,					
	savings etc.					
	11. approach the concerned authorities					
	for any exploitation as per legal					
	rights and laws					









Essential Digital Skills		4	6
12. operate digital devices and use its			
features and applications securely			
and safely			
13. use internet and social media			
platforms securely and safely			
Entrepreneurship		3	5
14. identify and assess opportunities			
for potential business			
15. identify sources for arranging			
money and associated financial			
and legal challenges			
Customer Service		2	2
16. identify different types of			
customers			
17. identify customer needs and			
address them appropriately.			
18. follow appropriate hygiene and			
grooming standards.			
Getting ready for apprenticeship &		1	3
Jobs		1	3
19. create a basic biodata			
20. search for suitable jobs and apply			
21. identify and register apprenticeship			
opportunities as per requirement			
NOS Total	50	20	30
Grand Total	500	171	329







Textile Sector Skill Council

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