

# Model Curriculum

## Loin Loom Weaver

**SECTOR** : TEXTILE  
**SUB-SECTOR** : HANDLOOM & KHADI  
**OCCUPATION** : WEAVER  
**REF ID** : TSC/Q7307, V 3.0  
**NSQF LEVEL** : 3



## 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: 'LOIN LOOM WEAVER'  
QP No. 'TSC/Q7307' **NSQF Level 3**

Date of Issuance: **September 30<sup>th</sup> 2021**

Valid up to: **September 30<sup>th</sup> 2024**

\* 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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# Loin Loom Weaver

## CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Loin Loom Weaver”, in the “Textile” Sector and aims at building the following key competencies amongst the learner

<b>Program Name</b>	<b>Loin Loom Weaver</b>		
<b>Qualification Pack Name &amp; Reference ID.</b>	TSC/Q7307, v 3.0		
<b>Version No.</b>	3.0	<b>Version Update Date</b>	30.09.2021
<b>Pre-requisites to Training</b>	<ul style="list-style-type: none"> <li>• Grade 9 with No Experience (OR)</li> <li>• Grade 8 pass and pursuing continuous schooling in regular school with vocational subject with no experience (OR)</li> <li>• 8th grade pass with 1 year of relevant experience (OR)</li> <li>• 5th grade pass with 4 years of relevant experience (OR)</li> <li>• Ability to read and write with 5 years of experience</li> </ul>		
<b>Training Outcomes</b>	<p><b>After completing this programme, participants will be able to:</b></p> <ul style="list-style-type: none"> <li>• Weave fabric on loin loom using various natural and synthetic yarns</li> <li>• Manage the work area, tools and machines as per handloom cluster guidelines</li> <li>• Work effectively in a team</li> <li>• Describe the importance of health, safety and security at workplace</li> </ul>		

This course encompasses 5 out of 5 National Occupational Standards (NOS) of “Loin Loom Weaver” Qualification Pack issued by “TSC: Textile Sector Skill Council”

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1.	<p><b>Carryout weaving operation in Loin loom</b></p> <p><b>Theory Duration</b> (hh:mm) 60:00</p> <p><b>Practical Duration</b> (hh:mm) 150:00</p> <p><b>Corresponding NOS Code</b> TSC/N7311</p>	<ul style="list-style-type: none"> <li>Identify the fabric parameters for weaving</li> <li>Sketch the fabric structure as per the requirement</li> <li>Identify the correct yarn count for weaving as per product requirement</li> <li>Calculate the weft and warp yarn requirement for desired length of fabric</li> <li>Use the appropriate yarn color for weaving as per product specification</li> <li>Describe the parameters of the woven fabric</li> <li>Draft a fabric specification sheet as per the given parameters</li> <li>Demonstrate warp sheet preparation as per the warp design specification</li> <li>Demonstrate weft yarn preparation as per the pattern specification</li> <li>Demonstrate extra weft yarn preparation as per the extra weft motif requirement</li> <li>Develop heddle thread tie up on heddle shaft as per fabric structure requirement</li> <li>Assemble the loin loom setup at the desired location for weaving</li> <li>Demonstrate lease rod arrangement as per the fabric specification</li> <li>Demonstrate the bamboo sticks arrangement as per the weave requirements</li> <li>Define the requirements for warp sheet tension</li> <li>Define the requirements of defect free yarn usage in loin loom weaving</li> <li>Demonstrate the gaiting activity within the given time frame</li> <li>Describe the check points in loin loom gaiting as per the fabric specification</li> </ul>	<ul style="list-style-type: none"> <li>Loin loom setup</li> <li>Lease rods</li> <li>Bamboo sticks</li> <li>Warp and weft yarns</li> </ul>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>Describe the sequence of primary actions in the loom</li> <li>Describe the sequence of secondary motions in the loom</li> <li>Demonstrate shedding operation as per weave pattern</li> <li>Demonstrate picking operation as per design requirement</li> <li>Demonstrate beating operation using bamboo stick</li> <li>Demonstrate take up/ turning of woven fabric</li> <li>Demonstrate knotting of broken yarns as per the knot specification</li> <li>Demonstrate the weft yarn replenishment as per the design requirement</li> <li>Develop extra weft design as per the specification sheet</li> <li>Demonstrate fabric cutting and finishing activity</li> <li>Demonstrate tussling and trimming as per design requirements</li> <li>Produce defect free fabric as per the design specification</li> <li>Demonstrate folding and packing of the finished fabric</li> <li>Explain the fabric defects and rectification methods</li> <li>Describe the various designing and finishing methods</li> <li>Define the quality requirements &amp; effect of contamination of the hand-woven fabrics</li> <li>Describe the quality requirements of raw materials</li> </ul>	
2.	<p><b>Work area, tools and machine maintenance</b></p> <p><b>Theory Duration</b> (hh:mm) 05:00</p> <p><b>Practical Duration</b> (hh:mm) 10:00</p> <p><b>Corresponding NOS Code</b> TSC/9005</p>	<ul style="list-style-type: none"> <li>Demonstrate lifting procedure of yarns, lease rods as per guidelines</li> <li>Demonstrate correct lifting procedure for warp sheet, heddles, lease rods</li> <li>Demonstrate weaving activity in correct posture</li> <li>Identify the damaged tools and materials</li> <li>Segregate wastes as per the guidelines</li> <li>Dispose the waste safely as per specification</li> </ul>	<ul style="list-style-type: none"> <li>Loin loom setup</li> <li>Lease rods</li> <li>Bamboo sticks</li> <li>Warp and weft yarns</li> </ul>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
3.	<b>Team Work</b>  <b>Theory Duration</b> (hh:mm) 05:00  <b>Practical Duration</b> (hh:mm) 10:00  <b>Corresponding NOS Code</b> TSC/N9006	<ul style="list-style-type: none"> <li>Discuss the importance of team work</li> <li>List out the advantages of team work</li> <li>Explain the NGO/ SHG/ society policies</li> <li>Submit daily report of their own performance</li> <li>Report daily work done to supervisory as per company's protocol</li> <li>Demonstrate group discussion with team mates for the given topic</li> <li>Develop the oral and written communication skills</li> </ul>	<ul style="list-style-type: none"> <li>Loin loom setup</li> <li>Lease rods</li> <li>Bamboo sticks</li> <li>Warp and weft yarns</li> </ul>
4.	<b>Health &amp; Safety</b>  <b>Theory Duration</b> (hh:mm) 15:00  <b>Practical Duration</b> (hh:mm) 30:00  <b>Corresponding NOS Code</b> TSC/N9007	<ul style="list-style-type: none"> <li>List out the general safety rules followed in NGO/Cluster</li> <li>Discuss the importance of healthy environment in the workplace</li> <li>Demonstrate effluent disposal as per company's standard</li> <li>Identify the health hazard at workplace</li> <li>Identify the right firefighting equipment</li> <li>Select the right firefighting equipment based on fire type</li> <li>Describe the evacuation methods during emergency period</li> </ul>	<ul style="list-style-type: none"> <li>Loin loom setup</li> <li>Lease rods</li> <li>Bamboo sticks</li> <li>Warp and weft yarns</li> </ul>
5.	<b>Organizational Compliance</b>  <b>Theory Duration</b> (hh:mm) 05:00  <b>Practical Duration</b> (hh:mm) 10:00  <b>Corresponding NOS Code</b> TSC/N9008	<ul style="list-style-type: none"> <li>Describe the role and responsibilities of loin loom weaver</li> <li>Describe the importance of polite communication</li> <li>Discuss the company rules and standards to the team members</li> <li>Discuss the new methods to develop the existing work practice</li> <li>Demonstrate the reporting procedure with superiors as per specified instruction</li> <li>Discuss the advantages of rule and regulation compliance in the workplace</li> </ul>	<ul style="list-style-type: none"> <li>Loin loom setup</li> <li>Lease rods</li> <li>Bamboo sticks</li> <li>Warp and weft yarns</li> </ul>

6.	<p><b>Employability Skills (30 Hours)</b></p> <p><b>Theory Duration</b> (hh:mm) 12:00</p> <p><b>Practical Duration</b> (hh:mm) 18:00</p>	<ul style="list-style-type: none"> <li>• Discuss the importance of Employability Skills in meeting the job requirements.</li> <li>• Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen.</li> <li>• Show how to practice different environmentally sustainable practices</li> <li>• Discuss 21st century skills.</li> <li>• Display positive attitude, self -motivation, problem solving, time management skills and continuous learning mindset in different situations.</li> <li>• Use appropriate basic English sentences/ phrases while speaking</li> <li>• Demonstrate how to communicate in a well -mannered way with others.</li> <li>• Demonstrate working with others in a team</li> <li>• Show how to conduct oneself appropriately with all genders and PwD</li> <li>• Discuss the significance of reporting sexual harassment issues in time</li> <li>• Discuss the significance of using financial products and services safely and securely.</li> <li>• Explain the importance of managing expenses, income, and savings.</li> <li>• Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws</li> <li>• Show how to operate digital devices and use the associated applications and features, safely and securely</li> <li>• Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely.</li> <li>• Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges.</li> <li>• Differentiate between types of customers</li> <li>• Explain the significance of identifying customer needs and addressing them</li> <li>• Discuss the significance of maintaining hygiene and dressing appropriately.</li> <li>• Create a biodata</li> <li>• Use various sources to search and apply for jobs</li> <li>• Discuss the significance of dressing up neatly and maintaining hygiene for an interview</li> <li>• Discuss how to search and register for apprenticeship opportunities.</li> </ul>	<p>Class room requirements: 25 people seating capacity with a screen and projector</p>
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<p><b>Total Duration:</b> (hh:mm) <b>330:00</b></p> <p><b>Theory Duration</b> (hh:mm) <b>102:00</b></p> <p><b>Practical Duration</b> (hh:mm) <b>228:00</b></p>	<p><b>Unique Equipment Required:</b> Loin loom setup, lease rods, bamboo stick, warp and weft yarns</p>
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**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: “Loin Loom Weaver” mapped to Qualification Pack: “Loin Loom Weaver / TSC/Q7307, Version 3.0”

Sr. No.	Area	Details
1	<b>Description</b>	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “ <u>Loin Loom Weaver / TSC/Q7307, Version 3.0</u> ”.
2	<b>Personal Attributes</b>	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	<b>Minimum Educational Qualifications</b>	Basic Literacy and Numeracy
4a	<b>Domain Certification</b>	Certified for Job Role: Loin Loom Weaver” mapped to QP: “ <u>Loin Loom Weaver / TSC/Q7307, Version 3.0</u> ”. Minimum accepted score 80%.
4b	<b>Platform Certification</b>	Required that the Trainer is certified for MEP/Q2601 Job Role: “Trainer” with at least 80% score
5	<b>Experience</b>	Minimum 6 years' experience in relevant sector

## Employability Trainer Prerequisites

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		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)					<ul style="list-style-type: none"> <li>• have good communication skills</li> <li>• be well versed in English</li> <li>• have digital skills</li> <li>• have attention to detail</li> <li>• be adaptable</li> <li>• have willingness to learn</li> </ul>
Certified current EEE trainers (155 hours)	from Management SSC (MEPSC)					
Certified Trainer	Qualification Pack: Trainer (MEP/Q0102)					

## Annexure: Assessment Criteria

### CRITERIA FOR ASSESSMENT OF TRAINEES

**Job Role:** Loin Loom Weaver

**Qualification Pack:** TSC/Q7307

**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. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/ option NOS/ set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
6. To pass the Qualification Pack, every trainee should score a minimum of 50% in aggregate marks to successfully clear the assessment
7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Compulsory:

Total Marks: 650	Compulsory NOS			Marks Allotted	
Assessable Outcomes	Assessment Criteria	Total Marks	Out of	Theroy	Skills Practical
TSC/N7311 Carry our weaving operation on loin loom	PC1. Analyze the fabric parameters for weaving. i.e., Warp color, Weft Colour, Fabric structure, Extra weft design, warp count, weft count, ends per inch, picks per inch, number of multiple sheds required for inserting extra weft.		50	20	30
	PC2. Arrange required defect free warp yarn sheet and weft yarn package for Weaving.		35	10	25
	PC3. Arrange necessary number of Bamboo lease rods and beating rod and their positions as per the weave structure.		15	5	10
	PC4. Prepare the yarn hank for warping and ensure it is defect free.		20	4	16
	PC5. Prepare warp sheet as the per the required fabric specification. i.e., Length, Width, No of warp ends, color pattern and design to be woven.		25	5	20
	PC6. Tie up the shedding heddles to the heddle stick through the warp sheet to facilitate shed formation as per the fabric structure requirement.		20	4	16
	PC7. Mount the warp sheet in loop form over the		20	6	14

Total Marks: 650		Compulsory NOS		Marks Allotted	
Assessable Outcomes	Assessment Criteria	Total Marks	Out of	Theroy	Skills Practical
	loom rods at adequate tension for weaving.				
	PC8. Arrange the lease and fix required number bamboo lease rods as per the extra weft design.		15	5	10
	PC9. Prepare the weft yarn for winding as per weft color requirement.		10	4	6
	PC10. Wind the weft yarn for base fabric on pirn or wooden stick manually or by winding machine.		10	2	8
	PC11. Prepare the extra weft yarn as per the design requirement.		10	2	8
	PC12. Adjust the backstrap or loom rods to get required warp tension for weaving.		20	5	15
	PC13. Open the shed by lifting the heddle stick.		15	5	10
	PC14. Insert the Base weft/ extra figuring weft as per the design.		25	5	20
	PC15. Perform beat up using beating stick.		10	2	8
	PC16. Roll the loom rods anti clock wise to get the length of warp sheet forward for weaving.		20	6	14
	PC17. Maintain proper warp sheet tension.		20	5	15
	PC18. lay the weft pick evenly parallel to the previous pick without slackness/loop to ensure the selvedge's are clean.		20	5	15
	PC19. Attend warp breakages and weft breakage as per design specification.		15	5	10
	PC20. Maintain even beat up force throughout the weaving.		10	4	6
	PC21. Maintain the quality as per customer specification.		5	2	3
	PC22. Cut the warp sheet carefully and do finishing. i.e., Tassling, trimming.		5	2	3
	PC23. Join the woven fabrics as per specification.		5	2	3
		<b>Total</b>	<b>400</b>	<b>115</b>	<b>285</b>
TSC/N9005 Maintain work area and tools in handloom sector	PC1. Handle materials and tools safely and correctly		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

Total Marks: 650	Compulsory NOS			Marks Allotted	
Assessable Outcomes	Assessment Criteria	Total Marks	Out of	Theroy	Skills Practical
	PC7. Identify damaged tools and materials and take action according to the standards followed	50	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
		<b>Total</b>	<b>50</b>	<b>19</b>	<b>31</b>
TSC/N9006 Working in a team 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	2	3
	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
		<b>Total</b>	<b>50</b>	<b>20</b>	<b>30</b>
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		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

Total Marks: 650		Compulsory NOS		Marks Allotted	
Assessable Outcomes	Assessment Criteria	Total Marks	Out of	Theroy	Skills Practical
	PC8. minimize health and safety risks to self and others due to own actions	100	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
	<b>Total</b>		<b>100</b>	<b>33</b>	<b>67</b>
TSC/N9008 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 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. improve upon the existing techniques to increase process efficiency		2	1	1
	<b>Total</b>		<b>50</b>	<b>20</b>	<b>30</b>

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation	
				Theory Marks	Practical Marks
<b>DGT/VSQ/N0101 – Employability Skills</b>	<b>Introduction to Employability Skills</b>			1	1
	1. understand the significance of employability skills in meeting the job requirements				
	<b>Constitutional values – Citizenship</b>			1	1
	2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices.				
	<b>Becoming a Professional in the 21st Century</b>			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.				
	<b>Basic English Skills</b>			2	3
	4. speak with others using some basic English phrases or sentences				
	<b>Communication Skills</b>			1	1
	5. follow good manners while communicating with others				
	6. work with others in a team				
	<b>Diversity &amp; Inclusion</b>			1	1
	7. communicate and behave appropriately with all genders and PwD				
	8. report any issues related to sexual harassment				
	<b>Financial and Legal Literacy</b>			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				

	<b>Essential Digital Skills</b>			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				
	<b>Entrepreneurship</b>			3	5
	14. identify and assess opportunities for potential business				
	15. identify sources for arranging money and associated financial and legal challenges				
	<b>Customer Service</b>			2	2
	16. identify different types of customers				
	17. identify customer needs and address them appropriately.				
	18. follow appropriate hygiene and grooming standards.				
	<b>Getting ready for apprenticeship &amp; Jobs</b>			1	3
	19. create a basic biodata				
	20. search for suitable jobs and apply				
	21. identify and register apprenticeship opportunities as per requirement				
	<b>NOS Total</b>		<b>50</b>	<b>20</b>	<b>30</b>
	<b>Grand Total</b>		<b>700</b>	<b>227</b>	<b>473</b>





### **Textile Sector Skill Council**

15th Floor, Nirmal Tower, Barakhamba Road, New Delhi-110 001