

# Model Curriculum

## Hand Operated Knitting Machine Operator (Circular and Flat)

**SECTOR** : TEXTILE  
**SUB-SECTOR** : KNITTING  
**OCCUPATION** : OPERATOR  
**REF ID** : TSC/Q7304, VERSION 1.0  
**NSQF LEVEL** : 4



## Certificate

### CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

**TEXTILE SECTOR SKILL COUNCIL**

for the

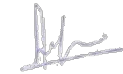
**MODEL CURRICULUM**

Complying to National Occupational Standards of Job Role/ Qualification Pack: 'Hand Operated knitting machine operator – (Circular & Flat)' QP No. 'TSC/Q7304 **NSQF Level 4**'

Date of Issuance: **May, 03<sup>rd</sup>, 2017**

Valid up to: **May 03<sup>rd</sup>, 2019**

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



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# Hand Operated Knitting Machine Operator (Circular & Flat)

## CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Hand Operated Knitting Machine Operator (Circular & Flat)”, in the “Textile” Sector/Industry and aims at building the following key competencies amongst the learner

<b>Program Name</b>	<b>Hand Operated Knitting Machine Operator (Circular &amp; Flat)</b>		
<b>Qualification Pack Name &amp; Reference ID.</b>	Hand Operated Knitting Machine Operator (Circular & Flat) TSC/Q7304, version 1.0		
<b>Version No.</b>	1.0	<b>Version Update Date</b>	03-05-2017
<b>Pre-requisites to Training</b>	5 <sup>th</sup> Standard Pass, Preferably		
<b>Training Outcomes</b>	<p><b>After completing this programme, participants will be able to:</b></p> <ul style="list-style-type: none"> <li>• Undertake knitting process efficiently</li> <li>• Maintain work area and tools in handloom sector</li> <li>• Working in a team in handloom sector</li> <li>• Maintain health, safety and security at work place in handloom sector</li> <li>• Comply with work place requirements in handloom sector</li> </ul>		

This course encompasses 5 out of 5 National Occupational Standards (NOS) of “Hand Operated knitting machine operator – (Circular & Flat)” Qualification Pack issued by “TSC: Textile Sector Skill Council”

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p><b>Undertake knitting process efficiently</b></p> <p><b>Theory Duration</b> 34:00 (hh:mm)</p> <p><b>Practical Duration</b> 100:00 (hh:mm)</p> <p><b>Corresponding NOS Code</b> TSC/N7308</p>	<ul style="list-style-type: none"> <li>Select the type of knitting machine as per the product’s requirement</li> <li>Interpret production and pattern specifications to determine required</li> <li>Adjust machine settings for knitted product</li> <li>Select appropriate tools for the machine as per product’s requirement</li> <li>Run the machine at optimum quality and efficiency levels</li> <li>Check the yarn threaded for production for possible impact on operational problems</li> <li>Operate the knitting machine in accordance with manufacturer’s and workplace instructions</li> <li>Conduct quality tests to ensure optimal production outcomes are achieved</li> <li>Diagnose and fix knitting problems</li> <li>Assess operational efficiency and safe operation of knitting machines</li> <li>Identify knit faults and determine the root cause</li> </ul>	<p><u>1. common for every batch:</u> poster/video visuals for work method</p> <p><u>Classroom requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
2	<p><b>Maintain work area and tools in handloom sector</b></p> <p><b>Theory Duration</b> (hh:mm) 14:00</p> <p><b>Practical Duration</b> (hh:mm) 20:00</p> <p><b>Corresponding NOS Code</b> TSC/N9005</p>	<ul style="list-style-type: none"> <li>Gain knowledge on Housekeeping system</li> <li>Identify and know unique functions of basic hand tools like cleaning hook, cleaning stick, bag, etc.</li> <li>Knowledge on Handling equipment importance</li> <li>Perform maintenance activities for handling equipment</li> </ul>	<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>

<p>3</p>	<p><b>Working in a team handloom sector</b></p> <p><b>Theory Duration</b> (hh:mm) 14:00</p> <p><b>Practical Duration</b> (hh:mm) 20:00</p> <p><b>Corresponding NOS Code</b> TSC/N9006</p>	<ul style="list-style-type: none"> <li>Understand the team work and its importance</li> <li>Gain knowledge about the basic requirements of team working</li> </ul>	<p><u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
<p>4</p>	<p><b>Maintain health, safety and security at work place in handloom sector</b></p> <p><b>Theory Duration</b> (hh:mm) 24:00</p> <p><b>Practical Duration</b> (hh:mm) 42:00</p> <p><b>Corresponding NOS Code</b> TSC/N 9007</p>	<ul style="list-style-type: none"> <li>Knowledge about the general safety rules</li> <li>Gain knowledge about the importance of personal protective equipment like apron, cap, earplugs, nose mask etc. and their application under different working conditions.</li> <li>Gain knowledge on various health hazards relevant to workplace and basic first aid training.</li> <li>Identify and select right equipment such as fire extinguisher &amp; based on type of fire.</li> <li>Perform good practice on first aid, firefighting etc.</li> </ul>	<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>
<p>5</p>	<p><b>Comply with workplace requirements in handloom sector</b></p> <p><b>Theory Duration</b> <b>14:00</b> (hh:mm)</p> <p><b>Practical Duration</b> <b>18:00</b> (hh:mm)</p> <p><b>Corresponding NOS Code</b> TSC/N9008</p>	<ul style="list-style-type: none"> <li>Know about organizational and industry standards</li> <li>Know the requirements for self-development</li> <li>Gain knowledge on Organizational &amp; Industry standards</li> </ul>	<p>Computer with access to Internet</p>

	<p><b>Total Duration</b> <b>300:00 Hours</b></p> <p><b>Theory Duration</b> <b>100:00</b></p> <p><b>Practical Duration</b> <b>200:00</b></p>	<p>Unique Equipment Required:</p> <p>Laptop, white board, marker, projector, first aid kit, Hand knitting machine, Yarn package</p>
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**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: “Hand Operated Knitting Machine Operator (Circular & Flat)” mapped to Qualification Pack: “TSC/Q7304, Version 1.0”

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>Hand Operated Knitting Machine Operator (Circular &amp; Flat) / TSC/Q7304, Version 1.0</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>	5 <sup>th</sup> Standard pass, Preferably
4a	<b>Domain Certification</b>	Certified for Job Role: “Hand Operated Knitting Machine Operator (Circular & Flat)” mapped to QP: “ <u>Hand Operated Knitting Machine Operator (Circular &amp; Flat) / TSC/Q7304, Version 1.0</u> ” Minimum accepted score 80%.
4b	<b>Platform Certification</b>	Required that the Trainer is certified for MEP/Q 0102 Job Role: “Trainer” with at least 80% score
5	<b>Experience</b>	6 years of Specific sector & 1 year of Trainer experience



## Annexure: Assessment Criteria

<b>Assessment Criteria</b>	
<b>Job Role</b>	<b>Hand Operated Knitting Machine Operator (Circular &amp; Flat)</b>
<b>Qualification Pack</b>	<b>TSC/Q7304, V 1.0</b>
<b>Sector Skill Council</b>	<b>Textile Sector Skill Council</b>

<b>Sr. No.</b>	<b>Guidelines for Assessment</b>
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 SSC.
3	Assessments 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 centre (as per assessment criteria below)
5	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on these criteria.
6	To pass the qualification pack, every trainee should score a minimum of 70%.
7	In case of unsuccessful completion, the trainee may seek reassessment on the Qualification pack

**Title of Component:**

Total Marks : 450	Compulsory NOS			Marks Allocation	
Assessable Outcomes	Assessment Criteria	Total Marks	Out of	Theory	Skills Practical
1.TSC/N7308 Undertake knitting process efficiently	PC1. select the type of knitting machine as per the product's requirement	200	20	5	15
	PC2. interpret production and pattern specifications to determine required machine settings for knitted product		20	5	15
	PC3. select appropriate tools for the machine as per product's requirement		20	5	15
	PC4. run the machine at optimum quality and efficiency levels		20	5	15
	PC5. check the yarn threaded for production for possible impact on operational problems		20	5	15
	PC6. operate the knitting machine in accordance with manufacturer's and workplace instructions		20	5	15
	PC7. conduct quality tests to ensure optimal production outcomes are achieved		20	5	15
	PC8. diagnose and fix knitting problems		20	5	15
	PC9. assess operational efficiency and safe operation of knitting machines		20	5	15
	PC10. identify knit faults and determine the root cause		20	5	15
	<b>Total</b>	<b>200</b>	<b>50</b>	<b>150</b>	
2.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

Total Marks : 450	Compulsory NOS			Marks Allocation	
Assessable Outcomes	Assessment Criteria	Total Marks	Out of	Theory	Skills Practical
	PC6. carry out maintenance and/or cleaning within one's responsibility	50	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
	<b>Total</b>		<b>50</b>	<b>19</b>	<b>31</b>
3.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
	<b>Total</b>		<b>50</b>	<b>20</b>	<b>30</b>
4.TSC/N9007 Maintain health, safety and security at work	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

Total Marks : 450		Compulsory NOS		Marks Allocation	
Assessable Outcomes	Assessment Criteria	Total Marks	Out of	Theory	Skills Practical
place in handloom sector	PC3. carry out own activities in line with approved guidelines and procedures	100	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

Total Marks : 450	Compulsory NOS			Marks Allocation	
Assessable Outcomes	Assessment Criteria	Total Marks	Out of	Theory	Skills Practical
	PC21. attach disciplinary rules with the implementation		4	1	3
		<b>Total</b>	<b>100</b>	<b>33</b>	<b>67</b>
5.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
		<b>Total</b>	<b>50</b>	<b>19</b>	<b>31</b>
	<b>Total</b>		<b>450</b>	<b>141</b>	<b>309</b>