

Model Curriculum

Hand Operated Knitting Machine Operator (Circular and Flat)

SECTOR : TEXTILE
SUB-SECTOR : HANDLOOM & KHADI
OCCUPATION : WEAVER
REF ID : TSC/Q7304, VERSION 2.0
NSQF LEVEL 2



Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

TEXTILE SECTOR SKILL COUNCIL

for the

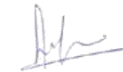
MODEL CURRICULUM

Complying to National Occupational Standards of Job Role/ Qualification Pack: 'Hand Operated Knitting Machine Operator – (Circular & Flat)' QP No. 'TSC/Q7304, NSQF Level 2'

Date of Issuance: **May, 03rd, 2017**

Valid up to: **Sep 30th, 2026**

* 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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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 & Handloom” Sector and aims at building the following key competencies amongst the learner.

Program Name	Hand Operated Knitting Machine Operator (Circular & Flat)		
Qualification Pack Name & Reference ID.	Hand Operated Knitting Machine Operator (Circular & Flat) TSC/ Q7304, version 2.0		
Version No.	2.0	Version Update Date	03-05-2017
Pre-requisites to Training	Ability to read and write		
Training Outcomes	After completing this programme, participants will be able to: <ul style="list-style-type: none"> • Undertake knitting process efficiently • Maintain work area and tools in handloom sector • Working in a team in handloom sector • Maintain health, safety and security at work place in handloom sector • Comply with work place requirements in handloom sector 		

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>Undertake knitting process efficiently</p> <p>Theory Duration (hh:mm) 34:00</p> <p>Practical Duration (hh:mm) 100:00</p> <p>Corresponding NOS Code TSC/N7308</p>	<ul style="list-style-type: none"> Select the type of knitting machine as per the product’s requirement Interpret production and pattern specifications to determine required Adjust machine settings for knitted product Select appropriate tools for the machine as per product’s requirement Run the machine at optimum quality and efficiency levels Check the yarn threaded for production for possible impact on operational problems Operate the knitting machine in accordance with manufacturer’s and workplace instructions Conduct quality tests to ensure optimal production outcomes are achieved Diagnose and fix knitting problems Assess operational efficiency and safe operation of knitting machines Identify knit faults and determine the root cause 	<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>Maintain work area and tools in handloom sector</p> <p>Theory Duration (hh:mm) 14:00</p> <p>Practical Duration (hh:mm) 20:00</p> <p>Corresponding NOS Code TSC/N9005</p>	<ul style="list-style-type: none"> Gain knowledge on housekeeping system Identify unique functions of basic hand tools Understand the importance handling equipments Perform maintenance activities for handling equipments 	<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>Working in a team handloom sector</p> <p>Theory Duration (hh:mm) 14:00</p> <p>Practical Duration (hh:mm) 20:00</p> <p>Corresponding NOS Code TSC/N9006</p>	<ul style="list-style-type: none"> • Understand the importance of team work • Gain knowledge about the basic requirements of team working 	<p><u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
<p>4</p>	<p>Maintain health, safety and security at work place in handloom sector</p> <p>Theory Duration (hh:mm) 24:00</p> <p>Practical Duration (hh:mm) 42:00</p> <p>Corresponding NOS Code TSC/N 9007</p>	<ul style="list-style-type: none"> • Knowledge about the general safety rules • Gain knowledge about the importance of personal protective equipment like apron, cap, earplugs, nose mask etc. and their application under different working conditions. • Gain knowledge on various health hazards relevant to workplace and basic first aid training. • Identify and use the correct extinguisher based on fore type. • Perform good practice on first aid, firefighting etc. 	<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>Comply with workplace requirements in handloom sector</p> <p>Theory Duration 14:00 (hh:mm)</p> <p>Practical Duration 18:00 (hh:mm)</p> <p>Corresponding NOS Code TSC/N9008</p>	<ul style="list-style-type: none"> • Understand the cluster/NGO/ society standard • Understand the requirements for self-development • Follow the cluster/NGO/Society standard effectively 	<p>Computer with access to Internet</p>

	<p>Total Duration</p> <p>Theory Duration 100:00</p> <p>Practical Duration 200:00</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 2.0”

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “Hand Operated Knitting Machine Operator (Circular & Flat) / TSC/Q7304, Version 2.0”.
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 Educational Qualifications	Basic Literacy and Numeracy
4a	Domain Certification	Certified for Job Role: “Hand Operated Knitting Machine Operator (Circular & Flat)” mapped to QP: “Hand Operated Knitting Machine Operator (Circular & Flat) / TSC/Q7304, Version 2.0” 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 of experience as a Hand Knitting Operator

Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Hand Operated Knitting Machine Operator (Circular & Flat)
Qualification Pack	TSC/Q7304, V 2.0
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 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

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
		Total	200	50	150
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
		Total	50	19	31
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
		Total	50	20	30
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	Theroy	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

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