

# Competency Based Training (CBT) Curriculum Guide for Sewing Machine Operator

[Market Oriented Short Term (MOST), Modular Curriculum]

Developed by:

Skills and Employment Programme-Bangladesh (SEP-B)



RMG  
Industry  
Skills Council

Skills and  
Employment  
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Bangladesh

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## **1 INTRODUCTION**

This curriculum guide is designed and developed using Competency Based Training (CBT) approach with the aim of producing skilled human resources for respective occupation. Competency based training approach bases the curriculum on recent analysis of the occupations-not on opinions or books. It focuses on doing-not on theory and assesses the trainees based on industry work standards (Collum, 1994).

This curriculum guide is based on the tasks to be performed as “Sewing Machine Operator”.

This curriculum guide is developed in consultation with the trainers, mid-level industry supervisors, and particularly skilled sewing machine operation workforce who are working for sewing industries and training providers of Bangladesh. SEP-B engaged Technical Institute for Technical Instruction (TITI), Nepal to develop the curriculum guide on Industrial Sewing Machine Operator.

## **2 AIMS**

The main aim of this training program is to provide medium level skilled workforce required for the ready-made garment sector (RMG) and create better opportunities for employment.

## **3 OBJECTIVES**

At the end of the training course, the trainees will be able to:

- Practice Occupational Health and Safety (OHS) Procedure;
- Apply fundamental skills of sewing machine operation;
- Perform stitching works;
- Perform shirt sewing;
- Perform T-shirt/Polo shirt sewing and
- Perform pant/trouser sewing.

## **4 DESCRIPTION**

This is a competency based training package for the unemployed and underemployed workforce of Bangladesh. The curriculum is based on the tasks to be performed by the Sewing Machine Operator. These tasks have been clustered into various modules. The modules are included in the ‘Course Structure’ section of this curriculum guide. Each task has been further analyzed to obtain Terminal Performance Objective (TPO), steps to perform the task, Enabling Objectives (EOs), duration and tools/equipment/materials required to perform the task.

The training methodology is learner centered where theoretical inputs, demonstration along with plenty of guided and individual practices will be provided to master the skills at the industry standards. Sufficient tools and equipment will also be used during the training to provide hands on skills to the trainees. The training produces competent sewing machine operators.

## 5 COURSE STRUCTURE

Job title: Sewing Machine Operator				Time (hrs.)		
S. N.	Modules	No. of Tasks	Nature	Th.	Pr.	Tot.
1.	Practice Occupational Health and Safety (OHS) Procedure.	05	T+P	2.50	3.50	6.00
2.	Apply fundamental skills of sewing machine operation.	08	T+P	5.00	41.00	46.00
3.	Perform stitching works.	05	T+P	2.5	9.5	12.00
4.	Perform shirt sewing.	16	T+P	8.00	45.00	53.00
5.	Perform T-shirt/Polo shirt sewing.	10	T+P	5.00	19.00	24.00
6.	Perform pant/trouser sewing.	13	T+P	6.50	32.50	39.00
<b>All total:</b>		<b>57</b>		<b>29.50</b>	<b>150.50</b>	<b>180.00</b>

## 6 DURATION

Total duration of the training is **180 hours** excluding soft skills and On-the-Job Training (OJT)/Apprenticeship. The trainees will be sent for employment after completion of the training. The aforementioned duration is only for technical modules.

## 7 TARGET GROUP

Job seekers, unemployed/underemployed youth, dropped out from the formal schooling, and disadvantaged group of people are the target group of this training course. Women and disadvantaged people are encouraged to receive the training.

## 8 GROUP SIZE

A maximum group size for the training is 20. The training provider ensures adequate resources and safety.

## 9 TARGET LOCATION

The training will be implemented in partnership with private training providers situated in the different areas of the country.

## 10 MEDIUM OF INSTRUCTION

The medium of instruction for this course will be Bangla but the trainees will be oriented on technical terminology in English.

## **11 PATTERN OF ATTENDANCE**

At least 90% attendance is required during the theory and practical classes to appear in the internal and final assessment.

## **12 FOCUS OF THE PROGRAM**

Since this course is a competency-based training, the focus is given on the performance of the trainees. At least 80% of the total training time is allocated for practical and 20% for the theory.

## **13 ENTRY CRITERIA**

The following criteria will be considered for the individual to enter into this training program:

- Education: Grade-V or equivalent
- Age: 18 years or above
- Physically and mentally fit

## **14 FOLLOW UP SUGGESTION**

The training providers who implement CBT program will build rapport with the employers to link graduates with the industries for employment.

Placement: Within one month after the completion of the training program, the graduates will be assisted in finding out the job relevant employment.

The follow-up will be done in two phases to measure the success in job. First follow-up will be done after three months of placement and the next follow up will be done after six months of placement in the job.

## **15 CERTIFICATE REQUIREMENT**

Training service provider will certify the graduates as a Sewing Machine Operator after successful completion of the training program through systematic skills testing. Certification can also be linked to the Bangladesh Technical and Education Board (BTEB) at the relevant National Technical and Vocational Qualification Framework (NTVQF) level through recognition of prior learning (RPL).

## **16 TRAINEES EVALUATION DETAILS**

Continuous assessment will be conducted to ensure the performance of the learners. Additionally, final testing will be done to evaluate the participants at the end of the training course. Trainees must secure 100% marks in practical and 60% marks in theoretical examination.

## **17 TRAINERS' QUALIFICATION**

Preference will be given to the trainer's having the following criteria:

- Minimum three years' experience in the respective occupation;
- Working experience as an instructor/trainer and

- Trade course/diploma holder.

## 18 TRAINER–TRAINEES RATIO

- For theoretical class, trainer and trainees ratio should be 1:20
- For practical class, trainer and trainees ratio should be 1:10

## 19 SUGGESTION FOR INSTRUCTION

- Follow curriculum guide.
- Allocate at least 80% time of the course for practical purpose.
- Allocate approximately 20% time of the course for theoretical purpose.
- Follow the safety rules.
- Create a friendly learning environment.
- Arrange equipment and materials at the right place on right time.
- Maintain timely presence in the training classrooms/workshop.
- Take attendance of participants regularly.
- Apply learner centered training approaches.
- Encourage the participants to speak and participate.
- Conduct question and answer (Q&A) sessions.
- Prepare lesson plans and learning materials for theoretical and practical classes.

## 20 LIST OF MODULES AND SUB MODULES

**Module 1: Practice Occupational Health and Safety (OHS) Procedure;**

**Module 2: Apply fundamental skills of sewing machine operation;**

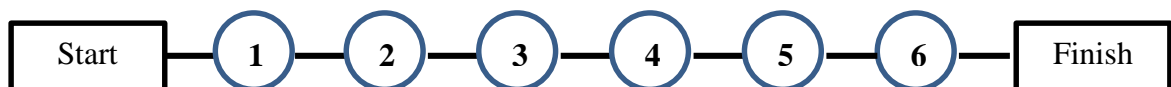
**Module 3: Perform stitching works;**

**Module 4: Perform shirt sewing;**

**Module 5: Perform T-shirt/Polo shirt sewing and**

**Module 6: Perform pant/trouser sewing.**

## 21 MODULE SEQUENCE



## 22 DETAILS OF MODULES AND SUB MODULES:

## **Module-1:**

# **Practice Occupational Health and Safety (OHS) Procedure**

## 22.1 Module-1: Practice Occupational Health and Safety Procedure

22.1 Module-1: Practice Occupational Health and Safety Procedure						
	<b>Description:</b> This module deals with the knowledge and skills required for a Sewing Machine Operator to apply health and safety procedures at the work place.			Hours		
	<b>Module outcomes:</b> After completion of this module, trainees will be able to: <ul style="list-style-type: none"> <li>• Follow Safety Sign and Regulations</li> <li>• Apply Personal Protective Equipment</li> <li>• Control House-Keeping Hazards</li> <li>• Apply First Aid on Minor Injuries</li> <li>• Control Electrical Hazards.</li> </ul>			<b>Th</b> <b>2.50</b>	<b>Pr</b> <b>3.50</b>	<b>Tot.</b> <b>6.00</b>
1.	<b>Task:</b> Follow Safety Sign and Regulations		<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> Simulated situation  <b>What:</b> Follow safety sign and regulations  <b>How well:</b> <ul style="list-style-type: none"> <li>• All safety signs and regulations must be followed in the workplace</li> </ul>	Th. 0.50	Pr. 0.50	Tot. 1.00
	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. Collect the safety signs, emergency exit plan and list of rules and regulation</li> <li>2. Display safety sign at eye level</li> <li>3. Hang the safety sign and visual aids at visible place</li> <li>4. Explain the application of safety sign and regulation</li> <li>5. Provide the safety sign and regulation to the trainees</li> <li>6. Maintain the emergency exit useable</li> <li>7. Preserve the safety sign and regulation</li> </ol>		<b>Enabling objectives:</b> <ul style="list-style-type: none"> <li>• Explain the purposes of safety signs</li> <li>• State the necessity to follow the safety rules and regulation</li> <li>• Explain what are the safety signs in the workplace</li> <li>• List the safety sign and regulation</li> <li>• Use the all safety items and rules</li> <li>• Explain the emergency exit way</li> </ul>			



	<b>Tools/equipment/materials required:</b> Different Safety sign chart, visual aids, danger zone area indicators and rules & regulation charts				
2.	<b>Task:</b> Apply Personal Protective Equipment	<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> Protective equipment  <b>What:</b> Apply personal protective equipment  <b>How well:</b>  <ul style="list-style-type: none"> <li>• The status of the protective materials must be checked while working.</li> <li>• Safety materials such as Apron, Mask, Hair scarf/Cap, Air plug must be worn.</li> </ul>	Th.  0.50	Pr.  1.00	Tot.  1.50
	<b>Steps:</b>  <ol style="list-style-type: none"> <li>1. Collect the personal protective equipment</li> <li>2. Check the condition of protective equipment</li> <li>3. Use the protective equipment</li> <li>4. Maintenance the protective equipment</li> <li>5. Preserve the protective equipment in organized way at safe place</li> </ol>	<b>Enabling objectives:</b>  <ul style="list-style-type: none"> <li>• Explain about the uses of protective equipment</li> <li>• Explain how to use the protective equipment</li> <li>• Explain the positive and negative side of uses the protective equipment</li> <li>• List the protective equipment</li> </ul>			
	<b>Tools/equipment/materials required:</b> Workplace Safety Guidelines, Fire Extinguisher, Safety Signs, Tools, Equipment and Workplace Layout.  <b>PPE:</b> Apron, Mask, Hair scarf/Cap, Air plug.				
3.	<b>Task:</b> Apply First Aid on Minor Injuries	<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> A simulated victim.  <b>What:</b> Apply first aid on minor injuries.  <b>How well:</b>	Th.  0.50	Pr.  2.50	Tot.  3.00

		<ul style="list-style-type: none"> <li>Insured person is isolated from the crowd.</li> <li>Information of accident given to the administration.</li> </ul>			
	<b>Steps:</b> <ol style="list-style-type: none"> <li>Isolate the injured person safely.</li> <li>Collect first aid box.</li> <li>Clean the injured area.</li> <li>Dress the insured portion.</li> <li>Apply necessary medicine as required.</li> <li>Inform to the administration.</li> <li>Restore the first aid box.</li> </ol>	<b>Enabling objectives:</b> <ul style="list-style-type: none"> <li>Define minor injury.</li> <li>Explain how to isolate injured person safely.</li> <li>Describe precaution to be taken while applying first aid on minor injuries.</li> <li>Explain the procedure of first aid treatment.</li> </ul>			
	<b>Tools/equipment/materials required:</b> Simulated Victim and First Aid Box.				
<b>4.</b>	<b>Task:</b> Control House-Keeping Hazards	<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> Simulated situation  <b>What:</b> Control house-keeping hazards  <b>How well:</b>  <ul style="list-style-type: none"> <li>Tools, equipment and safety materials of workplace must be placed in order</li> <li>The periodical maintenance of tools, equipment and safety materials of workplace must be done.</li> </ul>	Th. 0.50	Pr. 0.50	Tot. 1.00
	<b>Steps:</b> <ol style="list-style-type: none"> <li>List the expected hazards exist in workplace</li> <li>Place the tools and equipment in workplace following organized way</li> </ol>	<b>Enabling objectives:</b> <ul style="list-style-type: none"> <li>Define house-keeping hazards</li> <li>Identify the types of housekeeping hazards</li> <li>Explain the necessity of keeping the house neat and clean (including dinning place, washroom/toilets, store and exit path)</li> <li>Understand safety precautions to be taken for housekeeping hazards</li> </ul>			

	<ol style="list-style-type: none"> <li>3. Follow up the periodic maintenance of tools and equipment</li> <li>4. Handle the tools and equipment carefully</li> <li>5. Check the faulty tools and equipment</li> <li>6. Dispose the wastage/ outdated tools &amp; equipment from workplace</li> </ol>	<ul style="list-style-type: none"> <li>• List the expected house-keeping hazards in the workplace</li> </ul>								
<b>Tools/equipment/materials required:</b> Workplace Safety Guidelines, Fire Extinguisher, Safety Signs, Tools, Equipment and Workplace Layout.										
5.	<b>Task:</b> Control Electrical Hazards	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><b>Terminal Performance Objective (TPO):</b></th> <th style="text-align: center;">Th.</th> <th style="text-align: center;">Pr.</th> <th style="text-align: center;">Tot.</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> <b>Given:</b> Work place situation (real/simulation)   <b>What:</b> Control Electrical Hazards   <b>How well:</b>   <ul style="list-style-type: none"> <li>• Electrical hazards are identified</li> <li>• Safety precautions must be taken for electrical hazards</li> </ul> </td> <td style="text-align: center; vertical-align: top;">0.50</td> <td style="text-align: center; vertical-align: top;">0.50</td> <td style="text-align: center; vertical-align: top;">1.00</td> </tr> </tbody> </table>	<b>Terminal Performance Objective (TPO):</b>	Th.	Pr.	Tot.	<b>Given:</b> Work place situation (real/simulation)  <b>What:</b> Control Electrical Hazards  <b>How well:</b>  <ul style="list-style-type: none"> <li>• Electrical hazards are identified</li> <li>• Safety precautions must be taken for electrical hazards</li> </ul>	0.50	0.50	1.00
<b>Terminal Performance Objective (TPO):</b>	Th.	Pr.	Tot.							
<b>Given:</b> Work place situation (real/simulation)  <b>What:</b> Control Electrical Hazards  <b>How well:</b>  <ul style="list-style-type: none"> <li>• Electrical hazards are identified</li> <li>• Safety precautions must be taken for electrical hazards</li> </ul>	0.50	0.50	1.00							
	<b>Steps:</b>  <ol style="list-style-type: none"> <li>1. Check the tools and machinery before working</li> <li>2. Follow up the regular and periodical maintenance of electrical tools, equipment and appliance</li> <li>3. Locate the place of fire extinguisher</li> <li>4. Apply fire extinguisher during small electric fire</li> <li>5. Check the availability of fire extinguishers, sands buckets/ reserver</li> <li>6. Inform the administration, police and fire station for mass electric fire.</li> </ol>	<b>Enabling objectives:</b>  <ul style="list-style-type: none"> <li>• Explain cause of electrical fire hazards</li> <li>• Explain about electrical short circuit</li> <li>• Explain control of electrical fire hazards</li> <li>• List the types of electrical hazards</li> </ul>								
<b>Tools/equipment/materials required:</b> PPE like fire Extinguisher, Sand, vacuum cleaner/hand blower etc.										

**Module-2:**  
**Apply Fundamental Skills of Sewing  
Machine Operation**

22.2 Module-2: Apply Fundamental Skills of Sewing Machine Operation							
	<b>Description:</b> This module deals with the fundamental of sewing machine operation.				Hours		
	<b>Module outcomes:</b> After completion of this module, trainees will be able to:				<b>Th.</b>	<b>Pr.</b>	<b>Tot.</b>
	<ul style="list-style-type: none"> <li>• Operate Single Needle Lock Stitch Machine.</li> <li>• Operate Double Needle Lock Switch Machine.</li> <li>• Operate Single Needle Chain Stitch Machine.</li> <li>• Operate Double Needle Chain Stitch Machine.</li> <li>• Operate Over-Lock Machine (3-5 Threads)</li> <li>• Operate Flatbed Flat Lock Machine</li> <li>• Operate Buttonhole Machine.</li> <li>• Operate Button Attach Machine.</li> </ul>				<b>5.0</b>	<b>41.0</b>	<b>46.0</b>
1.	<b>Task:</b> Operate Single Needle Lock Stitch Machine.	<b>Terminal Performance Objective (TPO):</b>		Th.	Pr.	Tot.	
		<p><b>Given:</b> Single needle lock stitch machine in an industrial setting with user's manual.</p> <p><b>What:</b> Operate Single Needle Lock Stitch Machine.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Tension of thread is balanced.</li> <li>• Stitch is straight and uniform.</li> <li>• Stitch per inch is 10 -12.</li> <li>• Extra thread is trimmed.</li> <li>• Single Needle Lock Stitch Machine is operated as per user's manual.</li> </ul>		1.5	16.5	18.0	
	<b>Steps:</b>	<b>Enabling objectives:</b>					
	<ol style="list-style-type: none"> <li>1. Open the cover of lock stitch machine.</li> <li>2. Clean the machine using brush.</li> <li>3. Sit on the working stool.</li> <li>4. Set needle in the needle bar.</li> <li>5. Place two spool of thread onto two thread pegs in the top right corner of the machine.</li> </ol>	<ul style="list-style-type: none"> <li>• List the sewing machines used in sewing operation.</li> <li>• Discriminate among sewing machines used in sewing operation [Single Needle Lock Stitch Machine, Double Needle Lock Switch Machine, Single Needle Chain Stitch Machine, Double Needle Chain Stitch Machine, Over-Lock Machine (3-5 Threads), Flatbed Flat Lock Machine, Button Hole Machine and Button Attach Machine].</li> </ul>					

	<ol style="list-style-type: none"> <li>6. Pull a length of thread that is approximately 12 inches long from the spool.</li> <li>7. Insert the end of the thread through the eyelet on top of the Lockstitch.</li> <li>8. Fill the bobbin with thread using bobbin winder.</li> <li>9. Insert the bobbin in the bobbin case.</li> <li>10. Set the bobbin case in rotary hook.</li> <li>11. Switch ON the lock stitch machine.</li> <li>12. Place the fabric under presser foot.</li> <li>13. Continue pushing of the paddle to sew the fabric.</li> <li>14. Lift the presser foot.</li> <li>15. Cut the thread.</li> <li>16. Switch OFF the machine.</li> <li>17. Clean the machine and workplace.</li> <li>18. Cover the machine.</li> <li>19. Replace tools and materials in safe place.</li> </ol>	<ul style="list-style-type: none"> <li>• Label the parts of single needle lock stitch machine.</li> <li>• Explain the procedure of cleaning the machine using brush.</li> <li>• Explain user’s manual.</li> <li>• Describe sitting position for industrial machine sewing.</li> <li>• State steps for setting thread in needle eyelet in single needle lock stitch machine.</li> <li>• State the procedure of setting bobbin.</li> <li>• Explain steps to operate single needle lock stitch machine.</li> </ul>			
<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Scissor, Thread Cutter, Stitch Opener, Measuring Tape, Pencil, Fabric, and Thread.</p> <p><b>PPE:</b> Apron, Mask, Hair scarf/Cap.</p>					
2.	<p><b>Task:</b> Operate Double Needle Lock Stitch Machine</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Double needle lock stitch machine in an industrial setting with user’s manual.</p> <p><b>What:</b> Operate Double Needle Lock Stitch Machine</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Tension of thread is balanced.</li> <li>• Stitch is straight, uniform.</li> <li>• Stitch per inch is 10 -12.</li> <li>• Extra thread is trimmed.</li> </ul>	Th.  0.5	Pr.  3.5	Tot.  4.0

		<ul style="list-style-type: none"> <li>Machine is operated as per user's manual.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>Open the cover of machine.</li> <li>Clean the machine using brush.</li> <li>Sit on the working stool.</li> <li>Set needle in the needle bar.</li> <li>Place four spool of thread onto four thread pegs in the top right corner of the machine.</li> <li>Pull a length of thread that is approximately 12 inches long from the spool.</li> <li>Insert the end of the thread through the eyelet on top of the double needle lockstitch.</li> <li>Fill the bobbin with thread using bobbin winder.</li> <li>Insert the bobbin in the bobbin case.</li> <li>Set the bobbin case in rotary hook.</li> <li>Switch ON the machine.</li> <li>Place the fabric under presser foot.</li> <li>Continue pushing of the paddle to sew the fabric.</li> <li>Lift the presser foot.</li> <li>Cut the thread.</li> <li>Switch OFF the machine.</li> <li>Clean the machine and workplace.</li> <li>Cover the machine.</li> <li>Replace tools and materials in safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>Explain the functions of double needle lock stitch machine.</li> <li>Label the parts of double needle lock stitch machine.</li> <li>State steps for setting thread in needle eyelet in double needle lock stitch machine.</li> <li>Explain steps to operate double needle lock stitch machine.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Double Needle Lock Stitch Machine, Scissor, Thread Cutter, Stitch Opener, Measuring Tape, Pencil, Fabric, and Thread.</p> <p><b>PPE:</b> Apron, Mask, Hair scarf/Cap.</p>				
3.	<p><b>Task:</b> Operate Single Needle Chain Stitch Machine</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle chain stitch machine in an industrial setting with user's manual.</p>	Th. 0.5	Pr. 3.5	Tot. 4.0

		<p><b>What:</b> Operate Single Needle Chain Stitch Machine</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Tension of thread is balanced.</li> <li>• Stitch is straight, uniform.</li> <li>• Stitch per inch is 10 -12.</li> <li>• Extra thread is trimmed.</li> <li>• Machine is operated as per user's manual.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Open the cover of chain stitch machine.</li> <li>2. Clean the machine using brush.</li> <li>3. Sit on the working stool.</li> <li>4. Set needle in the needle bar.</li> <li>5. Place two spool of thread onto two thread pegs in the top right corner of the machine.</li> <li>6. Pull a length of thread that is approximately 12 inches long from the spool.</li> <li>7. Insert the end of the thread through the eyelet on top of the chain stitch.</li> <li>8. Set the thread with lopper using tweezers.</li> <li>9. Switch ON the lock stitch machine.</li> <li>10. Place the fabric under presser foot.</li> <li>11. Continue pushing of the paddle to sew the fabric.</li> <li>12. Lift the presser foot.</li> <li>13. Cut the thread.</li> <li>14. Switch OFF the machine.</li> <li>15. Clean the machine and workplace.</li> <li>16. Cover the machine.</li> <li>17. Replace tools and materials in safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Describe the functions of single needle chain stitch machine.</li> <li>• State steps for setting thread in needle eyelet in single needle chain stitch machine.</li> <li>• State the procedure of setting thread in lopper.</li> <li>• Explain steps to operate single needle chain stitch machine.</li> </ul>			
<p><b>Tools/equipment/materials required:</b> Single Needle Chain Stitch Machine, Scissor, Thread Cutter, Stitch Opener, Measuring Tape, Pencil, Fabric, Thread, and Tweezers.</p>					



	<b>PPE:</b> Apron, Mask, Hair scarf/Cap.				
4.	<b>Task:</b> Operate Double Needle Chain Stitch Machine	<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> Double needle chain stitch machine in an industrial setting with user’s manual.  <b>What:</b> Operate Double Needle Chain Stitch Machine  <b>How well:</b> <ul style="list-style-type: none"> <li>• Tension of thread is balanced.</li> <li>• Stitch is straight, uniform.</li> <li>• Stitch per inch is 10 -12.</li> <li>• Extra thread is trimmed.</li> <li>• Machine is operated as per user’s manual.</li> </ul>	Th.  0.5	Pr.  3.5	Tot.  4.0
	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. Open the cover of chain stitch machine.</li> <li>2. Clean the machine using brush.</li> <li>3. Sit on the working stool.</li> <li>4. Set needle in the needle bar.</li> <li>5. Place four spool of thread onto thread pegs in the top right corner of the machine.</li> <li>6. Pull a length of thread that is approximately 12 inches long from the spool.</li> <li>7. Insert the end of the thread through the eyelet on top of the chain stitch machine.</li> <li>8. Set the thread with lopper using tweezers.</li> <li>9. Switch ON the lock stitch machine.</li> <li>10. Place the fabric under presser foot.</li> <li>11. Continue pushing of the paddle to sew the fabric.</li> <li>12. Lift the presser foot.</li> <li>13. Cut the thread.</li> <li>14. Switch OFF the machine.</li> </ol>	<b>Enabling objectives:</b> <ul style="list-style-type: none"> <li>• Describe the functions of double needle chain stitch machine.</li> <li>• State steps for setting thread in needle eyelet in double needle chain stitch machine.</li> <li>• Explain steps to operate double needle chain stitch machine.</li> </ul>			

	<p>15. Clean the machine and workplace.  16. Cover the machine.  17. Replace tools and materials in safe place.</p>				
<p><b>Tools/equipment/materials required:</b> Double Needle Chain Stitch Machine, Screwdriver, Scissor, Thread Cutter, Stitch Opener, Measuring Tape, Pencil, Fabric, Thread, and Tweezers.</p> <p><b>PPE:</b> Apron, Mask, Hair scarf/Cap.</p>					
5.	<p><b>Task:</b> Operate Over Lock Machine (3-5 Threads)</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Over lock machine in an industrial setting with user’s manual.</p> <p><b>What:</b> Operate Over Lock Machine (3-5 Threads)</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Tension of thread is balanced.</li> <li>• Stitch is straight and uniform.</li> <li>• Stitch per inch is 10 -12.</li> <li>• Extra thread is trimmed.</li> <li>• Machine is operated as per user’s manual.</li> </ul>	Th.  0.5	Pr.  3.5	Tot.  4.0
<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Open the cover of over lock machine.</li> <li>2. Clean the machine using brush.</li> <li>3. Sit on the working stool.</li> <li>4. Set needle in the needle bar.</li> <li>5. Place (3-5) spool of thread onto (3-5) thread pegs in the top right corner of the machine.</li> <li>6. Pull a length of thread that is approximately 12 inches long from the spool.</li> <li>7. Insert the end of the thread through the eyelet on top of the over lock machine.</li> <li>8. Set the thread with lopper using tweezers.</li> </ol>		<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Describe the functions of over lock machine (3-5) thread.</li> <li>• State steps for setting thread in needle eyelet in over lock machine.</li> <li>• Explain steps to operate over lock machine.</li> </ul>			

	<p>9. Switch ON the over lock machine.</p> <p>10. Place the fabric under presser foot.</p> <p>11. Continue pushing of the paddle to sew the fabric.</p> <p>12. Lift the presser foot.</p> <p>13. Cut the thread.</p> <p>14. Switch OFF the machine.</p> <p>15. Clean the machine and workplace.</p> <p>16. Cover the machine.</p> <p>17. Replace tools and materials in safe place.</p>				
<p><b>Tools/equipment/materials required:</b> 5-Thread Over Lock Machine, Scissor, Thread Cutter, Stitch Opener, Measuring Tape, Pencil, Fabric, Thread, and Tweezers.</p> <p><b>PPE:</b> Apron, Mask, Hair scarf/Cap.</p>					
6.	<p><b>Task:</b> Operate Flatbed Flat Lock Machine</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Flatbed flat lock machine in an industrial setting with user's manual.</p> <p><b>What:</b> Operate Flatbed Flat Lock Machine</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Tension of thread is balanced.</li> <li>• Stitch is straight and uniform.</li> <li>• Stitch per inch is 10 -12.</li> <li>• Extra thread is trimmed.</li> <li>• Machine is operated as per user's manual.</li> </ul>	Th.  0.5	Pr.  4.5	Tot.  5.0
<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Open the cover of flat lock machine.</li> <li>2. Clean the machine using brush.</li> <li>3. Sit on the working stool.</li> <li>4. Set needle in the needle bar.</li> </ol>		<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Describe the functions of flatbed flat lock machine.</li> <li>• State steps for setting thread in needle eyelet in flat lock machine</li> <li>• Explain steps to operate flatbed flat lock machine.</li> </ul>			

	<ol style="list-style-type: none"> <li>5. Place (1-5) spool of thread onto (1-5) thread pegs in the top right corner of the machine.</li> <li>6. Pull a length of thread that is approximately 12 inches long from the spool.</li> <li>7. Insert the end of the thread through the eyelet on top of the flat lock machine.</li> <li>8. Set the thread with lopper using tweezers.</li> <li>9. Switch ON the flat lock machine.</li> <li>10. Place the fabric under presser foot.</li> <li>11. Continue pushing of the paddle to sew the fabric.</li> <li>12. Lift the presser foot.</li> <li>13. Cut the thread.</li> <li>14. Switch OFF the machine.</li> <li>15. Clean the machine and workplace.</li> <li>16. Cover the machine.</li> <li>17. Replace tools and materials in safe place.</li> </ol>				
<p><b>Tools/equipment/materials required:</b> Flatbed Flat Lock, Scissor, Thread Cutter, Stitch Opener, Measuring Tape, Pencil, Fabric, Thread, and Tweezers.</p> <p><b>PPE:</b> Apron, Mask, Hair scarf/Cap.</p>					
7.	<p><b>Task:</b> Operate Button Hole Machine</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Buttonhole machine in an industrial setting with user’s manual.</p> <p><b>What:</b> Operate Button Hole Machine</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Tension of thread is balanced.</li> <li>• Hole is done according to the measurement.</li> <li>• Extra thread is trimmed.</li> <li>• Machine is operated as per user’s manual.</li> </ul>	Th.  0.5	Pr.  3.5	Tot.  4.0

<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Open the cover of buttonhole machine.</li> <li>2. Clean the machine using brush.</li> <li>3. Sit on the working stool.</li> <li>4. Set needle in the needle bar.</li> <li>5. Place two spool of thread onto two thread pegs in the top right corner of the machine.</li> <li>6. Pull a length of thread that is approximately 12 inches long from the spool.</li> <li>7. Insert the end of the thread through the eyelet on top of the buttonhole machine.</li> <li>8. Fill the bobbin with thread using bobbin winder.</li> <li>9. Insert the bobbin in the bobbin case.</li> <li>10. Set the bobbin case in rotary hook.</li> <li>11. Switch ON the buttonhole machine.</li> <li>12. Mark the position of buttonhole as per requirement.</li> <li>13. Place the fabric under presser foot.</li> <li>14. Continue pushing of the paddle to sew the buttonhole.</li> <li>15. Lift the presser foot.</li> <li>16. Cut the thread.</li> <li>17. Switch OFF the machine.</li> <li>18. Clean the machine and workplace.</li> <li>19. Cover the machine.</li> <li>20. Replace tools and materials in safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Describe the functions of buttonhole machine.</li> <li>• State steps for setting thread in needle eyelet in machine.</li> <li>• Explain steps to operate buttonhole machine.</li> </ul>
<p><b>Tools/equipment/materials required:</b> Button Hole Machine, Scissor, Thread Cutter, Stitch Opener, Measuring Tape, Pencil, Fabric, Thread, and Tweezers.</p> <p><b>PPE:</b> Apron, Mask, Hair scarf/Cap.</p>	

8.	<b>Task:</b> Operate Button Attach Machine	<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> Button attach machine in an industrial setting with user's manual.  <b>What:</b> Operate Button Attach Machine  <b>How well:</b> <ul style="list-style-type: none"> <li>• Tension of thread is balanced.</li> <li>• Button is fixed firmly.</li> <li>• Pull test must be done.</li> <li>• Extra thread is trimmed.</li> <li>• Machine is operated as per user's manual.</li> </ul>	Th.  0.5	Pr.  2.5	Tot.  3.0
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<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Open the cover of button attach machine.</li> <li>2. Clean the machine using brush.</li> <li>3. Sit on the working stool.</li> <li>4. Set needle in the needle bar.</li> <li>5. Place two spool of thread onto two thread pegs in the top right corner of the machine.</li> <li>6. Pull a length of thread that is approximately 12 inches long from the spool.</li> <li>7. Insert the end of the thread through the eyelet on top of the button attach machine.</li> <li>8. Fill the bobbin with thread using bobbin winder.</li> <li>9. Insert the bobbin in the bobbin case.</li> <li>10. Set the bobbin case in rotary hook.</li> <li>11. Switch ON the button attach machine.</li> <li>12. Mark the position to place button as per requirement.</li> <li>13. Place the fabric with button under presser foot.</li> <li>14. Continue pushing of the paddle to attach the button with the produce.</li> <li>15. Lift the presser foot.</li> <li>16. Cut the thread.</li> <li>17. Conduct button pulling test.</li> <li>18. Switch OFF the machine.</li> <li>19. Clean the machine and workplace.</li> <li>20. Cover the machine.</li> <li>21. Replace tools and materials in safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Describe the functions of button attach machine.</li> <li>• State steps for setting thread in needle eyelet in machine.</li> <li>• Explain steps to operate button attach machine.</li> </ul>
<p><b>Tools/equipment/materials required:</b> Button Attach Machine, Button, Scissor, Thread Cutter, Stitch Opener, Measuring Tape, Gimlet, Fabric, Thread, and Tweezers.</p> <p><b>PPE:</b> Apron, Goggles, Mask, Hair scarf/Cap.</p>	

**Module-3:**  
**Perform Stitching Works**



22.3 Module-3: Perform Stitching Works						
	<b>Description:</b> This module deals with the knowledge and skills required to perform stitching works.			Hours		
	<b>Module outcomes:</b> After completion of this module, trainees will be able to: <ul style="list-style-type: none"> <li>• Perform Short Stitching.</li> <li>• Perform Long Stitching.</li> <li>• Perform Angle Stitching.</li> <li>• Perform Round Stitching.</li> <li>• Perform Top Stitching.</li> </ul>			<b>Th.</b> <b>2.5</b>	<b>Pr.</b> <b>9.5</b>	<b>Tot.</b> <b>12.0</b>
1.	<b>Task:</b> Perform Short Stitching.	<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> Single needle lock stitch machine and design chart.  <b>What:</b> Perform Short Stitching.  <b>How well:</b> <ul style="list-style-type: none"> <li>• Stitching is uniform.</li> <li>• Stitching is according to the given design chart.</li> <li>• No gap seen in regular stitching.</li> <li>• Stitching is 9-10 Stitch per Inch (SPI).</li> </ul>	Th.  0.5	Pr.  2.0	Tot.  2.50	
	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Fill up a bobbin with threads.</li> <li>3. Adjust the needle with the sewing machine.</li> <li>4. Fix thread in the needle.</li> <li>5. Adjust Stitch per Inch (SPI) as per requirement</li> <li>6. Switch ON the sewing machine.</li> <li>7. Place the fabric on the sewing machine.</li> <li>8. Push down slowly on the paddle to start the sewing machine for short stitch.</li> </ol>	<b>Enabling Objectives:</b> <ul style="list-style-type: none"> <li>• List the types of stitches.</li> <li>• Discriminate among different types of stitches.</li> <li>• Explain the application of short stitching.</li> <li>• Explain Stitch per inch (SPI).</li> <li>• Describe why PPE required while performing short stitching.</li> <li>• State the procedure of short stitching.</li> </ul>				

	<p>9. Guide the fabric straight forward with backstitch using fingers.</p> <p>10. Switch OFF the sewing machine.</p> <p>11. Cut the unwanted thread at the ends of the fabric.</p> <p>12. Count the number of stitch per inch.</p> <p>13. Clean the work place.</p> <p>14. Restore tools &amp; materials in safe place.</p>				
<p><b>Tools/equipment/materials required:</b> Single needle lock stitch machine, Scissor, Thread trimmer, Pincer, Screwdriver, Fabric, Measurement tape, Thread &amp; Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>					
2.	<p><b>Task:</b> Perform Long Stitching.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and design chart.</p> <p><b>What:</b> Perform Long Stitching.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Stitching is uniform.</li> <li>• Stitching is according to the given design chart.</li> <li>• No gap seen in regular stitching</li> <li>• Stitching is 9-10 Stitch per Inch (SPI).</li> </ul>	Th.  0.5	Pr.  2.0	Tot.  2.5
<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Fill up a bobbin with threads.</li> <li>3. Adjust the needle with sewing machine.</li> <li>4. Fix thread in the needle.</li> <li>5. Adjust Stitch per Inch (SPI) as per requirement</li> <li>6. Switch ON the sewing machine.</li> <li>7. Place the fabric on the sewing machine.</li> </ol>		<p><b>Enabling Objectives:</b></p> <ul style="list-style-type: none"> <li>• Define long stitch.</li> <li>• Explain the application of long stitching.</li> <li>• List PPE required while performing long stitching.</li> <li>• List the procedure of long stitching</li> </ul>			

	8. Push down slowly on the paddle to start the sewing machine for long stitch 9. Guide the fabric straight forward with backstitch using fingers. 10. Switch OFF the sewing machine. 11. Cut the unwanted thread. 12. Count the number of stitch per inch. 13. Clean the work place. 14. Restore tools & materials in safe place.				
<b>Tools/equipment/materials required :</b> Single needle lock stitch machine, Scissor, Thread trimmer, Pincer, Screwdriver, Fabric, Measurement tape, Thread, Needle.  <b>PPE:</b> Apron, Mask, Hair Scarf/Cap.					
3.	<b>Task:</b> Perform Angle Stitching.	<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> Single needle lock stitch machine and design chart.  <b>What:</b> Perform angle stitching.  <b>How well:</b> <ul style="list-style-type: none"> <li>• Stitching is uniform.</li> <li>• Stitching is according to the given design chart.</li> <li>• No gap seen in regular stitching.</li> <li>• Stitching is 9-10 Stitch per Inch (SPI).</li> </ul>	Th.  0.5	Pr.  2.0	Tot.  2.5

	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Fill up a bobbin with threads.</li> <li>3. Adjust the needle with sewing machine.</li> <li>4. Fix thread in the needle.</li> <li>5. Adjust Stitch per Inch (SPI) as per requirement</li> <li>6. Switch ON the sewing machine.</li> <li>7. Place the fabric on the sewing machine.</li> <li>8. Push down slowly on the paddle to start the sewing machine for angle stitch.</li> <li>9. Guide the fabric to start sewing from center point to center point following angle stitch.</li> <li>10. Switch OFF the sewing machine.</li> <li>11. Cut the unwanted thread from the fabric ends.</li> <li>12. Count the number of stitch per inch.</li> <li>13. Clean the work place.</li> <li>14. Restore tools &amp; materials in safe place.</li> </ol>	<p><b>Enabling Objectives:</b></p> <ul style="list-style-type: none"> <li>• Define angle stitch.</li> <li>• List PPE required while performing angle stitching.</li> <li>• Explain how to adjust thread in the needle for angle stitch.</li> <li>• Explain the application of angle stitching.</li> <li>• List the steps of angle stitching.</li> </ul>			
<p><b>Tools/equipment/materials required:</b> Single needle lock stitch machine, Scissor, Thread trimmer, Pincer, Screwdriver, Fabric, Measurement tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair scarf/Cap.</p>					
4.	<p><b>Task:</b> Perform Round Stitching</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and design chart.</p> <p><b>What:</b> Perform round stitching.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Round stitching is done as per the given layout/design.</li> <li>• Stitching is uniform.</li> <li>• No gap seen in regular stitching</li> </ul>	Th.  0.5	Pr.  2.0	Tot.  2.5

		<ul style="list-style-type: none"> <li>Stitching is 9-10 Stitch per Inch (SPI).</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Fill up a bobbin with threads</li> <li>3. Adjust the needle with machine.</li> <li>4. Fix thread in the needle.</li> <li>5. Mark the design of fabric as per layout.</li> <li>6. Adjust Stitch per Inch (SPI) as per requirement</li> <li>7. Switch ON the sewing machine.</li> <li>8. Place the fabric on the sewing machine.</li> <li>9. Push down the paddle gently to start sewing round stitching.</li> <li>10. Guide the fabric to start sewing with backstitch using fingers following round stitch.</li> <li>11. Switch OFF the sewing machine.</li> <li>12. Cut the unwanted thread from the fabric</li> <li>13. Count the number of stitch per inch.</li> <li>14. Clean the work place.</li> <li>15. Restore tools &amp; materials in safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>Define round stitch.</li> <li>List PPE required while performing round stitching.</li> <li>Explain how to adjust thread in the needle.</li> <li>Explain the application of round stitching.</li> <li>List the steps of round stitching.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Single needle lock stitch machine, Scissor, Thread trimmer, Pincer, Screwdriver, Fabric, Measurement tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair scarf/Cap.</p>				
5.	<p><b>Task:</b> Perform Top Stitching.</p>	<p><b>Terminal Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and design chart.</p> <p><b>What:</b> Perform Top Stitch.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>Stitching is as per layout/design.</li> </ul>	Th. 0.5	Pr. 1.5	Tot. 2.0

	<ul style="list-style-type: none"> <li>• No damage seen in stitching.</li> <li>• No gap/fault seen in regular stitching.</li> <li>• Stitching is 9-10 Stitch per Inch (SPI).</li> <li>• Guide is used in Top stitch.</li> </ul>			
<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Fill up a bobbin with threads.</li> <li>3. Adjust the needle with sewing machine.</li> <li>4. Fix thread in the needle.</li> <li>5. Adjust guide with the presser foot bar.</li> <li>6. Adjust Stitch per Inch (SPI) as per requirement</li> <li>7. Switch ON the sewing machine.</li> <li>8. Place the fabric on the sewing machine.</li> <li>9. Push down slowly on the paddle to start the sewing machine for long stitch.</li> <li>10. Guide the fabric straight forward with backstitch using fingers.</li> <li>11. Switch OFF the sewing machine</li> <li>12. Cut the unwanted thread</li> <li>13. Count the number of stitch per inch.</li> <li>14. Clean the work place.</li> <li>15. Restore tools &amp; materials in safe place.</li> </ol>	<p><b>Enabling Objectives:</b></p> <ul style="list-style-type: none"> <li>• Define top stitch.</li> <li>• Describe the different types of guides used for topstitching (1/16, 1/32, ¼, 1/8 Left and Right guide).</li> <li>• Explain the application of top stitching.</li> <li>• List the steps to perform top stitching</li> </ul>			
<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Guide (1/16, 1/32, ¼, 1/8 Left and Right Guide), Scissor, Thread Trimmer, Pincer, Screwdriver, Fabric, Measurement Tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair scarf/Cap.</p>				

**Module-4:**  
**Perform Shirt Sewing**

22.4 Module-4: Perform Shirt Sewing							
	<b>Description:</b> This module deals with the knowledge and skills required to perform shirt sewing.				Hours		
	<b>Module outcomes:</b> After completion of this module, trainees will be able to: <ul style="list-style-type: none"> <li>• Make Cuff.</li> <li>• Make Collar.</li> <li>• Make Box Plate.</li> <li>• Make Button Plate.</li> <li>• Make Pocket</li> <li>• Attach Main/Size Label.</li> <li>• Join Back Yoke with Back Part.</li> <li>• Join Shoulder.</li> <li>• Make Sleeve Placket.</li> <li>• Join Sleeve with Main Body.</li> <li>• Over Lock Side Seem with Care Label.</li> <li>• Join Collar with Main Body.</li> <li>• Join Cuff with Sleeve.</li> <li>• Hem Bottom of Shirt.</li> <li>• Make Button Hole.</li> <li>• Attach Button.</li> </ul>				<b>Th.</b>  <b>8.0</b>	<b>Pr.</b>  <b>45.0</b>	<b>Tot.</b>  <b>53.0</b>
1.	<b>Task:</b> Make Cuff		<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> Single needle lock stitch machine and a design chart.  <b>What:</b> Make Cuff  <b>How well:</b> <ul style="list-style-type: none"> <li>• Stitch is straight.</li> <li>• Cuff is made as per the given design.</li> <li>• Stitch per inch is as per the standard (10-12 SPI).</li> <li>• No faulty stitch is seen.</li> </ul>	Th.  0.50	Pr.  3.0	Tot.  3.5	



<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required materials.</li> <li>2. Attach interlining with top part of cuff fabric using hot iron.</li> <li>3. Sit on the working stool.</li> <li>4. Adjust machine as per requirement of the sewing.</li> <li>5. Switch ON the machine.</li> <li>6. Perform rolling cuff fabric with sewing machine.</li> <li>7. Mark the sewing line on top part of fabric according to the finished pattern using pencil.</li> <li>8. Lay two part of fabric keeping fusing part at the top.</li> <li>9. *Sew the cuff as per alignment of the mark line.</li> <li>10. Pull the thread in every corner during the sewing.</li> <li>11. Turn the fabric.</li> <li>12. Set the guide with machine.</li> <li>13. Adjust Stitch per Inch (SPI) as per requirement.</li> <li>14. Perform top stitch using guide.</li> <li>15. Separate stitched collar from the machine.</li> <li>16. Trim unwanted thread.</li> <li>17. Count the number of stitch per inch</li> <li>18. Clean the machine and work place.</li> <li>19. Restore tools and material in the safe place.</li> </ol> <p>*Step 9 - Down needle and pull thread in every corner while sewing.</p>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• List the name of each part of shirt.</li> <li>• Explain the types of cuff.</li> <li>• Explain the setting procedure of guide with machine.</li> <li>• Explain the importance of pulling thread in the corner.</li> <li>• State the procedure of sewing cuff.</li> </ul>
<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Cutter, Stitch Opener, Screw Driver, Fabric, Guide (1/16 Or 1/4), Inter Lining, Thread, Iron, Finished Pattern, Measurement Tape, Pencil, Design/Catalogue of Shirt.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>	

2.	<b>Task:</b> Make Collar.	<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> Single needle lock stitch machine and a design chart.  <b>What:</b> Make Collar  <b>How well:</b> <ul style="list-style-type: none"> <li>• Measurement of two collar point is same.</li> <li>• Measurement of two nose point is same.</li> <li>• Collar height is according to the measurement.</li> <li>• No broken stitch is seen for top stitch.</li> <li>• Stitch is straight.</li> <li>• No faulty stitch is seen.</li> <li>• Collar is made as per the given design.</li> </ul>	Th.  0.5	Pr.  4.0	Tot.  4.50
<b>Steps:</b> <ol style="list-style-type: none"> <li>1. Collect required materials.</li> <li>2. Attach interlining with top part of fabric using hot iron for both collar and collar band.</li> <li>3. Sit on the working stool.</li> <li>4. Adjust machine as per requirement of the sewing.</li> <li>5. Switch ON the machine.</li> <li>6. Mark the sewing line on top part of fabric according to the finished pattern using pencil.</li> <li>7. Lay two part of fabric keeping fusing part at the top.</li> <li>8. *Sew the collar as per alignment of the mark line.</li> <li>9. Turn on the collar .</li> <li>10. Set the guide with the machine.</li> <li>11. Adjust SPI as per requirement.</li> </ol>		<b>Enabling objectives:</b> <ul style="list-style-type: none"> <li>• Define collar and collar band.</li> <li>• State the procedure of sewing collar and collar band.</li> <li>• Explain the procedure of joining collar and collar band.</li> </ul>			

	<p>12. Mark the collar using finished pattern.</p> <p>13. Cut the edge of fabric as per the alignment of the marking.</p> <p>14. Perform rolling the top part of collar band fabric as per requirement.</p> <p>15. Attach collar and collar band together.</p> <p>16. Perform top stitch using guide.</p> <p>17. Separate stitched collar from the machine.</p> <p>18. Trim unwanted thread.</p> <p>19. Count the number of stitch per inch</p> <p>20. Clean the machine and work place.</p> <p>21. Restore tools and material in the safe place.</p> <p>22. *Step 9 - Down needle and pull thread in every corner while sewing.</p>				
<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Cutter, Stitch Opener, Screw Driver, Fabric, Guide (1/16 Or 1/4), Inter Lining, Thread, Iron, Finished Pattern, Measurement Tape, Pencil.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>					
3.	<p><b>Task:</b> Make Box Plate.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and a design chart.</p> <p><b>What:</b> Make Box Plate.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Stitch is straight.</li> <li>• No faulty stitch is seen.</li> <li>• No extra thread is seen.</li> </ul>	Th.  0.5	Pr.  2.0	Tot.  2.5

		<ul style="list-style-type: none"> <li>Box Plate is made as per the given design.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required materials.</li> <li>2. Attach interlining with top part of fabric using hot iron.</li> <li>3. Fold the top part fabric as per requirement.</li> <li>4. Sit on the working stool.</li> <li>5. Adjust machine as per requirement of the sewing.</li> <li>6. Switch ON the machine.</li> <li>7. Set the guide with the machine.</li> <li>8. Adjust SPI as per requirement.</li> <li>9. Perform top stitch both side of box plate.</li> <li>10. Separate stitched part from the machine.</li> <li>11. Trim unwanted thread.</li> <li>12. Count the number of stitch per inch</li> <li>13. Clean the machine and work place.</li> <li>14. Restore tools and material in the safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>Define Box plate.</li> <li>State the procedure of sewing box plate.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Cutter, Stitch Opener, Screw Driver, Fabric, Guide(1/16 Or 1/4), Inter Lining, Thread, Iron, Finished Pattern, Measurement Tape, Pencil.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
4.	<p><b>Task:</b> Make Button Plate</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and a design chart.</p> <p><b>What:</b> Make Button Plate</p> <p><b>How well:</b></p>	Th.	Pr.	Tot.
			0.5	1.0	1.50

		<ul style="list-style-type: none"> <li>• Fold is done according to the measurement.</li> <li>• Box plate is made as per the given design.</li> <li>• Stitch is straight.</li> <li>• Stitch per inch is as per the standard (10-12 SPI).</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required materials.</li> <li>2. Identify the mark line on the fabric.</li> <li>3. Fold the fabric according to the mark line.</li> <li>4. Adjust machine as per requirement of sewing.</li> <li>5. Perform sewing on fabric.</li> <li>6. Separate stitched part from the machine.</li> <li>7. Trim unwanted thread.</li> <li>8. Count the number of stitch per inch</li> <li>9. Clean the machine and workplace</li> <li>10. Restore materials in the safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Define box plate.</li> <li>• Explain how to fold fabric.</li> <li>• State the procedure of sewing button plate.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Cutter, Stitch Opener, Screw Driver, Fabric, Guide, Thread, and Measurement Tape.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
5.	<p><b>Task:</b> Make Pocket.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and a design chart.</p> <p><b>What:</b> Make Pocket.</p> <p><b>How well:</b></p>	Th.	Pr.	Tot.
			0.5	4.00	4.50

		<ul style="list-style-type: none"> <li>• Location of pocket is according to the given measurement.</li> <li>• Stitch is straight.</li> <li>• SPI is according to the requirement. Stitch per inch is as per the standard (10-12 SPI).</li> <li>• Pocket is made as per the given design.</li> <li>• No faulty stitch is seen.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required materials.</li> <li>2. Hem the pocket.</li> <li>3. Fold the fabric using finished pattern.</li> <li>4. Mark the pocket location on upper front part of shirt.</li> <li>5. Adjust machine as per requirement of the sewing.</li> <li>6. Attach pocket with body as per marked location.</li> <li>7. Separate stitched part from the machine.</li> <li>8. Trim unwanted thread.</li> <li>9. Clean the machine and workplace</li> <li>10. Restore materials in the safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Identify different types of pocket.</li> <li>• Explain the procedure of sewing pocket.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Cutter, Stitch Opener, Screw Driver, Fabric, Guide, Thread, Measurement Tape, and Pencil.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
6.	<b>Task:</b> Attach Main/Size Label.	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and a design chart.</p> <p><b>What:</b> Attach Main Label.</p>	Th.  0.5	Pr.  1.0	Tot.  1.50

		<p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Position of label is as per measurement.</li> <li>• Stitch is straight.</li> <li>• No faulty stitch is seen.</li> <li>• Main/Size Label is attached as per the given design.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required materials.</li> <li>2. Get a label.</li> <li>3. Fold both side of label.</li> <li>4. Mark the center point of label</li> <li>5. Mark the center point of yoke.</li> <li>6. Adjust machine as per requirement.</li> <li>7. Attach main label on the inner part of yoke as per requirement.</li> <li>8. Separate stitched part from the machine.</li> <li>9. Trim unwanted thread.</li> <li>10. Clean the machine and workplace</li> <li>11. Restore materials in the safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Define main label.</li> <li>• Explain the procedure of marking center point.</li> <li>• State the sewing procedure of label with yoke.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Cutter, Stitch Opener, Screw Driver, Yoke, Main Label, Scissor, Guide, Thread, Measurement Tape, and Pencil.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
7.	<p><b>Task:</b> Join Yoke with Back Part</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and a design chart.</p> <p><b>What:</b> Join Yoke with Back Part</p> <p><b>How well:</b></p>	Th.	Pr.	Tot.
			0.5	3.5	4.0

		<ul style="list-style-type: none"> <li>• Alignment of yoke and back part are same.</li> <li>• Three center point of yoke and back part is matched.</li> <li>• Stitch is straight.</li> <li>•</li> <li>• Yoke is joined with back part as per the given design.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required materials.</li> <li>2. Mark the center point of yoke and back part.</li> <li>3. Place the back part between two yoke keeping inner side at bottom.</li> <li>4. Adjust machine as per requirement.</li> <li>5. Sew the yoke and back part.</li> <li>6. Perform top stitch on outer part of yoke.</li> <li>7. Separate stitched part from the machine.</li> <li>8. Trim unwanted thread.</li> <li>9. Clean the machine and workplace.</li> <li>10. Restore materials in the safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Define yoke and back part.</li> <li>• State the procedure of setting alignment of yoke and back part.</li> <li>• Explain the procedure of sewing yoke and back part.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Cutter, Stitch Opener, Screw Driver, Yoke, Back Part, Scissor, Guide, Thread, and Measurement Tape.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
8.	<p><b>Task:</b> Join Shoulder</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and a design chart.</p> <p><b>What:</b> Join Shoulder.</p> <p><b>How well:</b></p>	Th.	Pr.	Tot.
			0.5	3.5	4.0



		<ul style="list-style-type: none"> <li>• Alignment of back part and front part are same.</li> <li>• Stitch is straight.</li> <li>• No faulty stitch is seen.</li> <li>• Shoulder is joined as per the given design chart.</li> </ul>			
	<b>Steps:</b>  1. Collect required materials. 2. Adjust machine as per requirement. 3. Join back part and front part. 4. Perform top stitch on back part. 5. Separate stitched part from the machine. 6. Trim unwanted thread. 7. Clean the machine and workplace. 8. Restore materials in the safe place.	<b>Enabling objectives:</b>  <ul style="list-style-type: none"> <li>• Define shoulder of shirt.</li> <li>• Explain the procedure of sewing shoulder.</li> <li>• State the procedure of performing top stitch.</li> </ul>			
<b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Cutter, Stitch Opener, Screw Driver, Front Part Back Part, Scissor, Guide, Thread, and Measurement Tape. <b>PPE:</b> Apron, Mask, Hair Scarf/Cap.					
9.	<b>Task:</b> Make Sleeve Placket	<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> Single needle lock stitch machine and a design chart.  <b>What:</b> Make Sleeve Placket.  <b>How well:</b>  <ul style="list-style-type: none"> <li>• Gamble width and length is according to the measurement.</li> <li>• Placket width and length is according to the measurement.</li> <li>• Placket box is according to the measurement.</li> </ul>	Th.  0.5	Pr.  3.5	Tot.  4.0

		<ul style="list-style-type: none"> <li>• Stitch is straight.</li> <li>• No extra edge is left.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required materials.</li> <li>2. Adjust machine as per requirement.</li> <li>3. Sew the Gamble using folder with sleeve (small part).</li> <li>4. Tack the Gamble with sleeve.</li> <li>5. Cut edge of Gamble.</li> <li>6. Fold the sleeve placket.</li> <li>7. Sew the placket with sleeve.</li> <li>8. Separate stitched part from the machine.</li> <li>9. Trim unwanted thread.</li> <li>10. Clean the machine and workplace</li> <li>11. Restore materials in the safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Define Gamble (Lower placket).</li> <li>• Define Upper placket.</li> <li>• Explain how to use folder.</li> <li>• State the procedure of sewing Gamble and placket</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Cutter, Stitch Opener, Screw Driver, Front Part Back Part, Scissor, Guide, Thread, and Measurement Tape.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
10.	<p><b>Task:</b> Join Sleeve with Main Body.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and a design chart.</p> <p><b>What:</b> Join Sleeve with Main Body.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Center point of armhole and sleeve is matched.</li> <li>• Stitch is straight.</li> <li>• No faulty stitch is seen.</li> <li>• Stitch per inch is as per the standard (10-12 SPI).</li> </ul>	Th. 0.5	Pr. 5.5	Tot. 6.0

		<ul style="list-style-type: none"> <li>No extra thread is seen.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required materials.</li> <li>2. Adjust machine as per requirement.</li> <li>3. Mark the center point of sleeve</li> <li>4. Mark the center point of armhole.</li> <li>5. Attach sleeve with body using over lock machine.</li> <li>6. Sew the sleeve with body with the side of over lock.</li> <li>7. Perform top stitch using guide.</li> <li>8. Separate stitched part from the machine.</li> <li>9. Trim unwanted thread.</li> <li>10. Clean the machine and workplace.</li> <li>11. Restore materials in the safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>State the procedure of over lock the sleeve and body.</li> <li>Explain the procedure of sewing sleeve and body.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Over Lock Machine, Thread Cutter, Screw Driver, Stitch Opener, Tweezers, Main Body, Sleeve, Scissor, Guide, Thread, Care Label and Measurement Tape.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
11.	<p><b>Task:</b> Over Lock Side Seam with Care Label.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and a design chart.</p> <p><b>What:</b> Over Lock Side Seam with Care Label.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>Arm point is matched.</li> <li>Stitch is straight.</li> <li>No faulty stitch is seen.</li> <li>No extra thread is seen.</li> </ul>	Th.  0.5	Pr.  1.0	Tot.  1.50

	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required materials.</li> <li>2. Adjust machine as per requirement.</li> <li>3. Over lock the side seam from sleeve opening to arm point.</li> <li>4. Attach care label with side of the body during over lock.</li> <li>5. Match arm point.</li> <li>6. Continue sewing from arm point to the bottom part of body (minimum two stop).</li> <li>7. Sew the side seam with the side of over lock.</li> <li>8. Perform top stitch using guide.</li> <li>9. Separate stitched part from the machine.</li> <li>10. Trim unwanted thread.</li> <li>11. Clean the machine and workplace.</li> <li>12. Restore materials in the safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Define side seam.</li> <li>• Define arm point.</li> <li>• Explain the sewing procedure of side seam using over lock machine.</li> <li>• Explain the sewing procedure of side seam using single needle lock stitch machine.</li> </ul>			
<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Over Lock Machine, Thread Cutter, Screw Driver, Stitch Opener, Tweezers, Main Body, Scissor, Guide, Thread, and Measurement Tape.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>					
12.	<p><b>Task:</b> Join Collar with Main Body.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and a design chart.</p> <p><b>What:</b> Join Collar with Main Body.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Center point of body and collar is matched.</li> <li>• Shoulder point of body and collar is matched.</li> </ul>	Th.  0.5	Pr.  5.0	Tot.  5.50

		<ul style="list-style-type: none"> <li>• Sewing starting point and end point are matched.</li> <li>• Stitch is straight.</li> <li>• No faulty stitch is seen.</li> <li>• No wrinkle on the collar is found.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required materials</li> <li>2. Adjust machine as per requirement.</li> <li>3. Mark the center point body.</li> <li>4. Mark the center point of collar</li> <li>5. Mark the shoulder point on collar</li> <li>6. Mark the sewing line on the collar.</li> <li>7. Attach collar with the main body.</li> <li>8. Cut edge of the fabric as per measurement.</li> <li>9. Perform top stitch according to the mark line.</li> <li>10. Attach size label during top stitch.</li> <li>11. Separate stitched part from the machine.</li> <li>12. Trim unwanted thread.</li> <li>13. Clean the machine and workplace.</li> <li>14. Restore materials in the safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Define collar and its types.</li> <li>• Explain the procedure of joining collar with body.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Cutter, Stitch Opener, Collar, Screw Driver, Main Body, Scissor, Guide, Thread, Measurement Tape, and Pencil.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
13.	<b>Task:</b> Join Cuff with Sleeve.	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and a design chart.</p>	Th.	Pr.	Tot.
			0.5	3.0	3.50

		<p><b>What:</b> Join Cuff with Sleeve.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Start and end point of cuff joint is matched</li> <li>• Sewing is straight</li> <li>• No faulty stitch is seen</li> <li>• No extra thread is seen</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required materials.</li> <li>2. Adjust machine as per requirement.</li> <li>3. Mark the pleat on both sleeve.</li> <li>4. Sew the pleat of both sleeve.</li> <li>5. Cut the edge of sleeves as per requirement.</li> <li>6. Join the cuff with sleeve using guide.</li> <li>7. Trim the extra thread.</li> <li>8. Clean the machine and workplace.</li> <li>9. Restore materials in the safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Explain the procedure of joining cuff with sleeve.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Cutter, Stitch Opener, Screw Driver, Cuff, Main Body, Scissor, Guide, Thread, Measurement Tape, and Pencil.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
14.	<p><b>Task:</b> Hem Bottom of Shirt.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and a design chart.</p> <p><b>What:</b> Hem Bottom of Shirt.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Button plate and box plate length is equal.</li> </ul>	Th.	Pr.	Tot.
			0.5	2.0	2.50

		<ul style="list-style-type: none"> <li>No puckering is seen.</li> <li>Stitch is straight.</li> <li>No faulty stitch is seen.</li> </ul>			
	<b>Steps:</b> <ol style="list-style-type: none"> <li>Collect required materials</li> <li>Adjust machine as per requirement.</li> <li>Fold the bottom of shirt as per measurement.</li> <li>Sew the bottom using guide.</li> <li>Clean the machine and workplace.</li> <li>Restore materials in the safe place.</li> </ol>	<b>Enabling objectives:</b> <ul style="list-style-type: none"> <li>Define types of bottom of shirt.</li> <li>Explain the procedure of hemming bottom.</li> </ul>			
	<b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Cutter, Stitch Opener, Screw Driver, Cuff Main Body, Scissor, Guide, Thread, Measurement Tape, and Pencil. <b>PPE:</b> Apron, Mask, Hair Scarf/Cap.				
15.	<b>Task:</b> Make Button Hole.	<b>Terminal Performance Objective (TPO):</b> <b>Given:</b> Industrial buttonhole machine, Main body of shirt, sample and measurement/design. <b>What:</b> Make Button Hole. <b>How well:</b> <ul style="list-style-type: none"> <li>Buttonhole is made as per measurement/design.</li> <li>Buttonhole is adjusted with the button size.</li> <li>No damage seen around the buttonhole.</li> </ul>	Th. 0.5	Pr. 1.5	Tot. 2.0
	<b>Steps:</b> <ol style="list-style-type: none"> <li>Collect required tools and materials.</li> </ol>	<b>Enabling objectives:</b> <ul style="list-style-type: none"> <li>Explain the purpose of making buttonhole.</li> </ul>			

	<ol style="list-style-type: none"> <li>2. Adjust the needle in the buttonhole machine.</li> <li>3. Adjust the thread tension of buttonhole machine.</li> <li>4. Fix the blade of the machine as per sample hole size.</li> <li>5. Fix the thread in the needle.</li> <li>6. Mark the buttonhole position as per design chart or sample.</li> <li>7. Place the main body of the shirt with buttonhole machine.</li> <li>8. Switch ON the sewing machine.</li> <li>9. Make hole for the button with buttonhole machine.</li> <li>10. Switch OFF the sewing machine.</li> <li>11. Cut unwanted thread.</li> <li>12. Check the hole.</li> <li>13. Clean the work place.</li> <li>14. Restore tools &amp; materials in safe place.</li> </ol>	<ul style="list-style-type: none"> <li>• Explain how to adjust needle and blade in buttonhole machine.</li> <li>• Describe buttonhole making procedure.</li> </ul>			
<p><b>Tools/equipment/materials required:</b> Industrial Button Hole Machine, Thread Trimmer, Main Body, Button, Screw Driver, Measurement Tape, Marking Pencil, Thread, Pincer, Screwdriver, and Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>					
16.	<p><b>Task:</b> Attach Button.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Industrial button stitch machine, Main body of shirt &amp; sample.</p> <p><b>What:</b> Attach Button.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Button is fixed maintaining the measurement/sample.</li> <li>• Button is adjusted with the buttonhole.</li> <li>• No damage seen in button and around button area.</li> </ul>	Th. 0.5	Pr. 1.5	Tot. 2.0



		<ul style="list-style-type: none"> <li>• Passes the Pulling taste.</li> <li>• Unwanted thread are removed.</li> </ul>					
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools and materials.</li> <li>2. Adjust the needle in the button stitch machine.</li> <li>3. Mark the button position as per buttonhole position.</li> <li>4. Switch ON the button attach machine.</li> <li>5. Check the button as per sample.</li> <li>6. Attach the button with main body shirt.</li> <li>7. Switch OFF the machine.</li> <li>8. Cut the unwanted thread.</li> <li>9. Clean the work place.</li> <li>10. Restore tools &amp; materials in safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Define Button.</li> <li>• Identify different types of button.</li> <li>• Explain how to adjust needle in button stitch machine.</li> <li>• Describe how to adjust button in the button stitch machine.</li> <li>• Explain the function of button stitch machine.</li> <li>• Describe Pulling test.</li> <li>• List the steps to attach button.</li> </ul>	<p><b>Tools/equipment/materials required:</b> Industrial Button Stitch Machine, Thread Trimmer, Main Body, Screw Driver, Button, Measurement Tape, Gimlet, Thread, Pincer, Screwdriver, and Needle.</p> <p><b>PPE:</b> Apron, Goggles, Mask, Hair Scarf/Cap.</p>				

**Module-5:**  
**Perform T-Shirt/Polo Shirt Sewing**

22.5 Module-5: Perform T-Shirt/Polo Shirt Sewing					
Description: This module deals with the knowledge and skills required to perform T-shirt/Polo Shirt sewing.			Hours		
<b>Module outcomes:</b> After completion of this module, trainees will be able to: <ul style="list-style-type: none"> <li>• Make Placket of Polo Shirt.</li> <li>• Perform Moon Joint.</li> <li>• Perform Shoulder Joint.</li> <li>• Perform Collar Joint for Polo Shirt.</li> <li>• Join Neck Rib with Main Body of T-Shirt.</li> <li>• Join Sleeve with Main Body of Polo Shirt.</li> <li>• Over Lock Side Seem.</li> <li>• Perform Hemming for T-Shirt/ Polo Shirt.</li> <li>• Make Button Hole.</li> <li>• Attach Button.</li> </ul>			<b>Th.</b>	<b>Pr.</b>	<b>Tot.</b>
			<b>5.0</b>	<b>19.0</b>	<b>24.0</b>
1.	<b>Task:</b> Make Placket of Polo Shirt.	<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> Single needle lock stitch machine, design chart and sample product.  <b>What:</b> Make Placket of Polo Shirt.  <b>How well:</b> <ul style="list-style-type: none"> <li>• Placket is made as per layout/design chart.</li> <li>• Placket box is made as per sample.</li> <li>• Stitching is 9-10 SPI.</li> <li>• No damage/fault seen on fabric and stitching.</li> </ul>	Th.	Pr.	Tot.
			0.5	2.5	3.00
<b>Steps:</b> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Match the thread color with the piece of fabric.</li> <li>3. Fill up a bobbin with thread.</li> <li>4. Adjust the bobbin case with rotary hook.</li> <li>5. Adjust the needle with machine.</li> </ol>		<b>Enabling objectives:</b> <ul style="list-style-type: none"> <li>• Differentiate between T-Shirt and Polo Shirt.</li> <li>• Define Placket.</li> <li>• Interpret design chart.</li> <li>• Explain how to fold a placket.</li> <li>• Explain how to attach, close and top stitch.</li> <li>• Explain the use of placket.</li> </ul>			

	<ol style="list-style-type: none"> <li>6. Fix thread in the needle.</li> <li>7. Adjust the tension of thread.</li> <li>8. Adjust SPI as per requirement</li> <li>9. Switch ON the sewing machine.</li> <li>10. Fold the placket of rolling with stitch by sewing machine.</li> <li>11. Sew the placket with front part maintaining the mark line.</li> <li>12. Cut the front part as per placket position.</li> <li>13. Stitch upper and lower placket by closing with 1/16 following TOP Stitching.</li> <li>14. Sew the placket box following TOP stitching.</li> <li>15. Switch OFF the sewing machine.</li> <li>16. Cut the unwanted thread.</li> <li>17. Count the number of stitch per inch</li> <li>18. Clean the work place.</li> <li>19. Restore tools &amp; materials in safe place.</li> </ol>	<ul style="list-style-type: none"> <li>• Explain the steps to make placket.</li> </ul>			
<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Guide (1/16, Left And Right Guide) Scissor, Thread Trimmer, Pincer, Screwdriver, Fabric, Measurement Tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>					
2.	<p><b>Task:</b> Perform Moon Joint.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine, design chart, sample product, moon, back part.</p> <p><b>What:</b> Perform Moon Joint.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Stitching line is round.</li> <li>• Moon joint is made as per sample/design chart.</li> <li>• Stitching is 9-10 SPI.</li> <li>• No damaged seen in the stitching &amp; fabric.</li> </ul>	Th.  0.5	Pr.  1.5	Tot.  2.00
<p><b>Steps:</b></p>		<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Define moon joint.</li> </ul>			

	<ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Match the thread color with the piece of fabric.</li> <li>3. Fill up a bobbin with threads.</li> <li>4. Adjust the needle of sewing machine.</li> <li>5. Fix thread in the needle of sewing machine.</li> <li>6. Adjust the tension thread of sewing machine.</li> <li>7. Adjust the needle of over lock machine.</li> <li>8. Fix thread in the needle of over lock machine.</li> <li>9. Adjust the tension thread of over lock machine.</li> <li>10. Switch ON the sewing machine.</li> <li>11. Edge the over locking moon with over lock machine.</li> <li>12. Attach the main label, size label with moon using single needle lock stitch machine.</li> <li>13. Attach the moon as per mark location with back part using single needle lock stitch machine.</li> <li>14. Switch OFF the sewing machine.</li> <li>15. Cut the unwanted thread.</li> <li>16. Check the stitch of joint area.</li> <li>17. Clean the work place.</li> <li>18. Restore tools &amp; materials in safe place.</li> </ol>	<ul style="list-style-type: none"> <li>• Explain how to fix thread in the needle of over lock machine.</li> <li>• Explain how to adjust thread tension of over lock machine.</li> <li>• Explain the purpose of moon joint.</li> <li>• Explain how to fix size label in the moon.</li> <li>• Explain the steps to make moon joint.</li> </ul>								
<p><b>Tools/equipment/materials required:</b> Single needle lock stitch machine, Guide ( 1/8, Right guide) One needle Three thread Over lock machine, Scissor, Thread trimmer, Pincer, Screwdriver, Fabric, Measurement tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>										
3.	<p><b>Task:</b> Perform Shoulder Joint.</p>	<table border="1"> <thead> <tr> <th data-bbox="786 1552 1177 1630"><b>Terminal Performance Objective (TPO):</b></th> <th data-bbox="1177 1552 1283 1630">Th.</th> <th data-bbox="1283 1552 1386 1630">Pr.</th> <th data-bbox="1386 1552 1468 1630">Tot.</th> </tr> </thead> <tbody> <tr> <td data-bbox="786 1630 1177 1946"> <p><b>Given:</b> Two needle four thread over lock machine, One needle two thread flat lock machine, Design chart, back part, front part &amp; Sample.</p> <p><b>What:</b> Perform Shoulder Joint.</p> </td> <td data-bbox="1177 1630 1283 1946">0.5</td> <td data-bbox="1283 1630 1386 1946">1.5</td> <td data-bbox="1386 1630 1468 1946">2.00</td> </tr> </tbody> </table>	<b>Terminal Performance Objective (TPO):</b>	Th.	Pr.	Tot.	<p><b>Given:</b> Two needle four thread over lock machine, One needle two thread flat lock machine, Design chart, back part, front part &amp; Sample.</p> <p><b>What:</b> Perform Shoulder Joint.</p>	0.5	1.5	2.00
<b>Terminal Performance Objective (TPO):</b>	Th.	Pr.	Tot.							
<p><b>Given:</b> Two needle four thread over lock machine, One needle two thread flat lock machine, Design chart, back part, front part &amp; Sample.</p> <p><b>What:</b> Perform Shoulder Joint.</p>	0.5	1.5	2.00							

		<b>How well:</b> <ul style="list-style-type: none"> <li>Shoulder joint is as per given sample/design chart.</li> <li>Stitching line is straight.</li> <li>Stitching is 9-10 SPI.</li> <li>No damage/fault seen on fabric and stitches.</li> </ul>			
	<b>Steps:</b> <ol style="list-style-type: none"> <li>Collect required tools &amp; materials.</li> <li>Match the thread color with the piece of fabric.</li> <li>Fix the needle of the over lock machine as per stitching.</li> <li>Fix thread in the needle of four thread over lock machine.</li> <li>Adjust the tension thread of four thread over lock machine.</li> <li>Adjust the needle of flat lock machine.</li> <li>Fix thread in the needle of flat lock machine.</li> <li>Adjust the tension thread of flat lock machine.</li> <li>Switch ON the sewing machine.</li> <li>Join the back part with front part of Shoulder.</li> <li>Sew the Top stitch on shoulder joint.</li> <li>Switch OFF the sewing machine.</li> <li>Cut the unwanted thread.</li> <li>Check the quality of stitch in the joint area.</li> <li>Clean the work place.</li> <li>Restore tools &amp; materials in safe place.</li> </ol>	<b>Enabling objectives:</b> <ul style="list-style-type: none"> <li>Define shoulder joint.</li> <li>State the purpose of joining shoulder.</li> <li>Explain the steps of perform shoulder joint.</li> </ul>			
	<b>Tools/equipment/materials required:</b> Two needle-Four thread Over Lock machine, Flat lock machine, Scissor, Thread trimmer, Pincer, Screwdriver, Fabric, Measurement tape, Thread, Needle. <b>PPE:</b> Apron, Mask, Hair Scarf/Cap.				
4.	<b>Task:</b> Perform Collar Joint for Polo Shirt.	<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> Single needle machine, Two needle four thread over	Th.  0.5	Pr.  2.5	Tot.  3.00

		<p>lock machine, Rib collar, and Flat lock machine. Back, Front part &amp; Piping fabric.</p> <p><b>What:</b> Perform Collar Joint for Polo Shirt.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Collar is attached with the main body as per design chart/drawing measurement.</li> <li>• Stitching line is straight.</li> <li>• Stitching is 9-10 SPI.</li> <li>• No damage/fault seen on fabric/stitching.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Match the thread color with the piece of fabric.</li> <li>3. Fix the needle of the over lock machine as per stitching.</li> <li>4. Fix thread in the needle of four thread over lock machine.</li> <li>5. Adjust the tension thread of four thread over lock machine.</li> <li>6. Adjust the needle of flat lock machine.</li> <li>7. Fix thread in the needle of flat lock machine.</li> <li>8. Adjust the tension thread of flat lock machine.</li> <li>9. Adjust single needle thread sewing machine.</li> <li>10. Switch ON the sewing machine.</li> <li>11. Join the collar on main body with over lock machine.</li> <li>12. Fix with collar and piping on main body with flat lock machine.</li> <li>13. Sew the Top stitch on collar piping with edge fold with single needle lock stitch machine.</li> <li>14. Switch OFF the sewing machine.</li> <li>15. Cut the unwanted thread</li> <li>16. Count the number of stitch in the join area.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Describe how to fix collar with the main body of the T- shirt.</li> <li>• List the steps to joint collar with the main body.</li> </ul>			

<p>17. Clean the work place. 18. Restore tools &amp; materials in safe place.</p>					
<p><b>Tools/equipment/materials required:</b> Two Needle Four Thread Over Lock Machine, Single Needle Lock Stitch Machine, Flat Lock Machine, Scissor, Thread Trimmer, Pincer, Screwdriver, Collar, Main Body, Piping Fabric, Measurement Tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap</p>					
<p>5. <b>Task:</b> Join Neck Rib with main body of T-Shirt</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Drawing/Measurement, Single needle machine, Two needle four thread over lock machine, Neck rib, and Flat lock machine. Back, Front part &amp; Piping fabric.</p> <p><b>What:</b> Join Neck Rib with main body of T-Shirt,</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Neck rib with the main body is fixed as per drawing/measurement.</li> <li>• Shape of the neck is as per drawing/measurement.</li> <li>• Number of stitches per inch is as per design chart/buyer instruction (9-11).</li> <li>• No damage/fault seen on fabric/Stitching.</li> </ul>	<p>Th.</p> <p>0.5</p>	<p>Pr.</p> <p>2.5</p>	<p>Tot.</p> <p>3.00</p>	
<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Select the thread color with the piece of fabric according to design chart.</li> <li>3. Fix the needle of the over lock machine as per stitching.</li> <li>4. Fix thread in the needle of four thread over lock machine.</li> <li>5. Adjust the tension thread of four thread over lock machine.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Explain rib fabric.</li> <li>• Describe how to fix neck rib with the main body of the T- shirt.</li> <li>• Explain how to adjust mark line of neck rib and main body.</li> <li>• Describe how to fix a piping.</li> <li>• List the steps to join rib with the main body.</li> </ul>				



	<ol style="list-style-type: none"> <li>6. Adjust the needle of flat lock machine.</li> <li>7. Fix thread in the needle of flat lock machine.</li> <li>8. Adjust the tension thread of flat lock machine.</li> <li>9. Adjust single needle thread sewing machine.</li> <li>10. Switch ON the sewing machine.</li> <li>11. Join the neck rib as a collar with the main body as per mark line with over lock machine.</li> <li>12. Fix with back neck in mark position with chalk.</li> <li>13. Join piping in mark line on main body with flat lock machine.</li> <li>14. Sew the Top stitch on back neck piping with edge fold with single needle lock stitch machine.</li> <li>15. Switch OFF the sewing machine.</li> <li>16. Cut the unwanted thread.</li> <li>17. Count the number of stitch per inch.</li> <li>18. Clean the work place.</li> <li>19. Restore tools &amp; materials in safe place.</li> </ol>				
<p><b>Tools/equipment/materials required:</b> Two needle Four thread Over lock machine, Single needle lock stitch machine, Flat lock machine, Scissor, Thread trimmer, Neck rib, Main body, Piping fabric, Measurement tape, Thread, Pincer, Screwdriver, Marking chalk, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>					
6.	<p><b>Task:</b> Join Sleeve with Main Body of T-Shirt/ Polo Shirt.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Two needle four thread over lock machine, Design chart, Main body &amp; sleeve parts &amp; Sample.</p> <p><b>What:</b> Join Sleeve with Main Body of T- Shirt/ Polo Shirt.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Sleeve joint is done as per given design chart.</li> <li>• Shape of Stitching line is curve and smooth.</li> </ul>	Th.  0.5	Pr.  2.0	Tot.  2.5

		<ul style="list-style-type: none"> <li>• Number of stitches per inch is 9-10 or as per buyer's instruction.</li> <li>• No damage/fault seen on fabric/stitches.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Match the thread color with the piece of fabric/as per given chart.</li> <li>3. Fix the needle of the over lock machine as per number of stitching.</li> <li>4. Fix thread in the needle of four thread over lock machine.</li> <li>5. Adjust the tension thread of four thread over lock machine.</li> <li>6. Adjust the mark line of the piece of fabric.</li> <li>7. Switch ON the sewing machine.</li> <li>8. Join the sleeve part with the main body.</li> <li>9. Switch OFF the sewing machine.</li> <li>10. Cut unwanted thread.</li> <li>11. Count the number of stitch in the joint area.</li> <li>12. Clean the work place.</li> <li>13. Restore tools &amp; materials in safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Explain how to fix thread in the needle of over lock machine.</li> <li>• Explain how adjust thread tension of over lock machine.</li> <li>• Explain how to maintain the curve line of stitching.</li> <li>• Explain the steps of join sleeve with main body.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Two needle Four thread Over lock machine, Thread trimmer, Sleeve parts, Main body, Measurement tape, Thread, Pincer, Screwdriver, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
7.	<p><b>Task:</b> Over Lock Side Seem.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Two needle four thread over lock machine, Design chart, Main body, Care label &amp; Sample.</p> <p><b>What:</b> Over Lock Side Seem.</p> <p><b>How well:</b></p>	Th. 0.5	Pr. 2.0	Tot. 2.5

		<ul style="list-style-type: none"> <li>• Side seem is locked as per the given design chart.</li> <li>• Stitching line is straight and uniform.</li> <li>• Number of stitches per inch is as per instruction/standard.</li> <li>• Care label is fixed as per instruction/design chart.</li> <li>• No damage/fault seen on fabric/stitching.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Match the thread color with the piece of fabric.</li> <li>3. Fix the needle of the over lock machine as per stitching.</li> <li>4. Fix thread in the needle of four thread over lock machine.</li> <li>5. Adjust the tension thread of four thread over lock machine.</li> <li>6. Adjust the mark line of the piece of fabric.</li> <li>7. Switch ON the sewing machine.</li> <li>8. Sew the side seem of the main body of T-shirt/polo shirt with care label by over locking machine.</li> <li>9. Switch OFF the sewing machine.</li> <li>10. Cut unwanted thread.</li> <li>11. Count the number of stitch.</li> <li>12. Clean the work place.</li> <li>13. Restore tools &amp; materials in safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Define over lock side seem.</li> <li>• Define care label.</li> <li>• Explain how to adjust care label.</li> <li>• State the necessity to over lock the side seem.</li> <li>• Explain the steps to over lock with side seem of T-Shirt/ Polo Shirt.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Two Needle Four Thread Over Lock Machine, Thread Trimmer, Care Label, Main Body, Measurement Tape, Thread, Pincer, Screwdriver, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
8.	<p><b>Task:</b> Perform Hemming for T-Shirt/Polo Shirt.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Flat lock machine, Main body &amp; Sample/design chart.</p>	Th. 0.5	Pr. 2.5	Tot. 3.00

		<p><b>What:</b> Perform Hemming for T-Shirt/Polo Shirt.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Bottom and sleeve part of the T- shirt/polo shirt is hemmed as per given design chart/sample.</li> <li>• Stitching line is straight.</li> <li>• Number of stitches per inch is as per instruction/standard (10-12).</li> <li>• No damage/fault on fabric/stitching.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Fix the needle of the flat lock machine as per stitching.</li> <li>3. Fix thread in the needle of flat lock machine.</li> <li>4. Adjust the tension thread of flat lock machine.</li> <li>5. Match the thread color with the fabric/design/sample.</li> <li>6. Fold the bottom and sleeve edge part of the T- shirt/polo shirt as per mark line.</li> <li>7. Switch ON the sewing machine.</li> <li>8. Hem the bottom and sleeve part of the T- shirt/polo shirt maintaining the straight line.</li> <li>9. Switch OFF the sewing machine.</li> <li>10. Cut unwanted thread.</li> <li>11. Match the hemming quality as per design chart.</li> <li>12. Clean the work place.</li> <li>13. Restore tools &amp; materials in safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Explain how to fold the bottom and sleeve of the T-shirt/ polo shirt.</li> <li>• Describe how to maintain the straight line while hemming the bottom and sleeve of the T-shirt /polo shirt.</li> <li>• Explain hemming procedure.</li> </ul>			
<p><b>Tools/equipment/materials required:</b> Two needle three thread flat lock, Thread trimmer, Main body, Measurement tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>					

9.	<b>Task:</b> Make Buttonhole.	<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> Industrial buttonhole machine, Main body of polo shirt, sample and measurement/design.  <b>What:</b> Make Buttonhole.  <b>How well:</b> <ul style="list-style-type: none"> <li>• Buttonhole is made as per measurement/design.</li> <li>• Buttonhole is adjusted with the button size.</li> <li>• No damage seen around the buttonhole.</li> </ul>	Th.  0.5	Pr.  1.0	Tot.  1.5
<b>Steps:</b> <ol style="list-style-type: none"> <li>1. Collect required tools and materials.</li> <li>2. Adjust the needle in the buttonhole machine.</li> <li>3. Adjust the thread tension of buttonhole machine.</li> <li>4. Fix the blade of the machine as per sample hole size.</li> <li>5. Fix the thread in the needle.</li> <li>6. Mark the button hole position as per design chart or sample.</li> <li>7. Place the main body of polo shirt with buttonhole machine.</li> <li>8. Switch ON the buttonhole machine.</li> <li>9. Make hole for the button with buttonhole machine.</li> <li>10. Switch OFF the machine.</li> <li>11. Cut unwanted thread.</li> <li>12. Match the hole as per button size.</li> <li>13. Clean the work place.</li> <li>14. Restore tools &amp; materials in safe place.</li> </ol>		<b>Enabling objectives:</b> <ul style="list-style-type: none"> <li>• State the purpose of making buttonhole.</li> <li>• Explain how to adjust needle and blade in buttonhole machine.</li> <li>• Describe buttonhole making procedure.</li> </ul>			
<b>Tools/equipment/materials required:</b> Industrial button hole machine, Thread trimmer, Main body, Button, Measurement tape, Marking pencil, Thread, Pincer, Screwdriver, Needle.					

	<b>PPE:</b> Apron, Mask, Hair Scarf/Cap				
10.	<b>Task:</b> Attach Button.	<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> Industrial button stitch machine, Button, Main body of polo/T-shirt & sample.  <b>What:</b> Attach Button.  <b>How well:</b> <ul style="list-style-type: none"> <li>• Button is fixed maintaining the measurement/sample.</li> <li>• Button is adjusted with the buttonhole.</li> <li>• No damage seen in button and around button area.</li> <li>• Passes the Pulling taste.</li> <li>• Unwanted thread removed.</li> </ul>	Th.  0.5	Pr.  1.0	Tot.  1.5
	<b>Steps:</b>  1. Collect required tools and materials. 2. Adjust the needle in the button stitch machine. 3. Mark the button position as per buttonhole position. 4. Switch ON the button stitch machine. 5. Check the button as per sample. 6. Attach the button with main body of Polo/T-shirt. 7. Switch OFF the machine. 8. Cut the unwanted thread. 9. Conduct pulling test. 10. Clean the work place. 11. Restore tools & materials in safe place.	<b>Enabling objectives:</b> <ul style="list-style-type: none"> <li>• Define Button.</li> <li>• Identify different types of button.</li> <li>• Explain how to adjust needle in button stitch machine.</li> <li>• Describe how to adjust button in the button stitch machine.</li> <li>• Explain the function of button stitch machine.</li> <li>• Describe Pulling test.</li> <li>• List the steps to attach button.</li> </ul>			
	<b>Tools/equipment/materials required:</b> Industrial Button Stitch Machine, Thread Trimmer, Main Body, Button, Measurement Tape, Gimlet, Thread, Pincer, Screwdriver, and Needle.  <b>PPE:</b> Apron, Goggles, Mask, Hair Scarf/Cap.				

**Module-6:**  
**Perform Pant/Trouser Sewing**

22.6 Module-6: Perform Pant/Trouser Sewing						
	<b>Description:</b> This module deals with the knowledge and skills required to perform Pant/Trouser sewing.			Hours		
	<b>Module outcomes:</b> After completion of this module, trainees will be able to: <ul style="list-style-type: none"> <li>• Perform Edge Over Lock.</li> <li>• Make Front Pocket.</li> <li>• Attach Zipper.</li> <li>• Join Back Rise.</li> <li>• Make Back Pocket.</li> <li>• Make Flap.</li> <li>• Perform Side Seem Sewing using 5 Thread Over Lock Machine.</li> <li>• Make Loops for Belt.</li> <li>• Make Belt.</li> <li>• Perform In-seem Sewing.</li> <li>• Hem Leg Opening.</li> <li>• Make Eye Hole.</li> <li>• Attach Button.</li> </ul>			<b>Th.</b>  <b>6.5</b>	<b>Pr.</b>  <b>32.5</b>	<b>Tot.</b>  <b>39.0</b>
1.	<b>Task:</b> Perform Edge Over Lock.		<b>Terminal Performance Objective (TPO):</b>  <b>Given:</b> One needle three thread over lock machine, Different parts of pants/trouser & Sample.  <b>What:</b> Perform Edge Over Lock.  <b>How well:</b> <ul style="list-style-type: none"> <li>• Edge over lock is done with maintaining the given measurement.</li> <li>• Stitching line must be straight.</li> </ul>	Th.  0.50	Pr.  2.0	Tot.  2.50



		<ul style="list-style-type: none"> <li>Stitching seen no damage.</li> </ul>			
	<p><b>Steps :</b></p> <ol style="list-style-type: none"> <li>1 Collect required tools &amp; materials.</li> <li>2 Identify the name of each parts of a pant / trouser.</li> <li>3 Adjust the needle with three thread over lock machine.</li> <li>4 Fix thread in the needle with machine.</li> <li>5 Switch ON the sewing machine.</li> <li>6 Place the fabric on the sewing machine.</li> <li>7 Start the machine for edge over lock facing by three thread over lock machine.</li> <li>8 Edge over lock single ply by three thread over lock machine.</li> <li>9 Edge over lock double-ply by three thread over lock machine.</li> <li>10 Edge over lock front rise of both side by three thread over lock machine.</li> <li>11 Switch OFF the sewing machine.</li> <li>12 Cut the unwanted thread.</li> <li>13 Clean the work place.</li> <li>14 Restore tools &amp; materials in safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>Identify parts of pant/trouser.</li> <li>Explain how to adjust thread, tension, and needle and mark line.</li> <li>Describe the Function of Three thread over lock machine.</li> <li>Explain the steps of over lock facing, single ply, double-ply, front rise by three thread over lock machine.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> One Needle Three Thread Over Lock Machine, Thread Trimmer, Screwdriver, Measurement Tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
2	<p><b>Task:</b> Make Front Pocket.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine, One needle</p>	Th. 0.5	Pr. 2.0	Tot. 2.5

		<p>three thread over lock machine, facing, pocket seem, pocketing, front part of pant and sample.</p> <p><b>What:</b> Make Front Pocket</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Front pocket has been made as per given measurement and sample.</li> <li>• Stitching is must be pocket opening shape.</li> <li>• There is no missed stitching.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Refill the bobbin with machine.</li> <li>3. Fix the needle of the machine as per stitching size.</li> <li>4. Match the thread color with the fabric.</li> <li>5. Adjust the tension of the thread.</li> <li>6. Adjust the mark line of the fabric.</li> <li>7. Switch ON the machine.</li> <li>8. Join facing with the pocket seem.</li> <li>9. Join pocketing with facing.</li> <li>10. Join front part with the mouth of front pocket part.</li> <li>11. Give top stitch in the mouth of the pocket.</li> <li>12. Give tack mouth of front pocket with the pocket seem (both side).</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Define front pocket of pant, facing, pocket seem and pocketing.</li> <li>• Explain how to adjust thread, tension and mark line.</li> <li>• Explain how to make tack in the fabric.</li> <li>• Explain the necessity to joint facing with pocket seem.</li> <li>• Explain the necessity to over lock the lower part of the pocket.</li> <li>• Explain how to joint facing and pocket seem.</li> <li>• List the procedure to make front pocket.</li> </ul>			

	<p>13. Edge over locked pocketing with one needle three thread over lock machine.</p> <p>14. Switch OFF the machine.</p> <p>15. Cut the unwanted thread.</p> <p>16. Count the number of stitch per inch.</p> <p>17. Clean the work place.</p> <p>18. Restore the tools and materials in the safe place.</p>									
<p><b>Tools/equipment/materials required:</b> One Needle Three Thread Over Lock Machine, Thread Trimmer, Screwdriver, Measurement Tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>										
<p><b>3</b></p>	<p><b>Task:</b> Attach Zipper.</p>	<table border="1"> <thead> <tr> <th data-bbox="762 763 1145 846"><b>Terminal Performance Objective (TPO):</b></th> <th data-bbox="1145 763 1254 846">Th.</th> <th data-bbox="1254 763 1362 846">Pr.</th> <th data-bbox="1362 763 1474 846">Tot.</th> </tr> </thead> <tbody> <tr> <td data-bbox="762 846 1145 1697"> <p><b>Given:</b> Single needle lock stitch machine, Double needle lock stitch machine, sample product and front part.</p> <p><b>What:</b> Attach Zipper.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Zipper is fixed with the mark line.</li> <li>• Zipper functions smoothly.</li> <li>• Zipper is straight.</li> <li>• No damage found.</li> <li>• Zipper is attached as per the given sample product.</li> </ul> </td> <td data-bbox="1145 846 1254 1697"> <p>0.5</p> </td> <td data-bbox="1254 846 1362 1697"> <p>3.5</p> </td> <td data-bbox="1362 846 1474 1697"> <p>4.0</p> </td> </tr> </tbody> </table>	<b>Terminal Performance Objective (TPO):</b>	Th.	Pr.	Tot.	<p><b>Given:</b> Single needle lock stitch machine, Double needle lock stitch machine, sample product and front part.</p> <p><b>What:</b> Attach Zipper.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Zipper is fixed with the mark line.</li> <li>• Zipper functions smoothly.</li> <li>• Zipper is straight.</li> <li>• No damage found.</li> <li>• Zipper is attached as per the given sample product.</li> </ul>	<p>0.5</p>	<p>3.5</p>	<p>4.0</p>
<b>Terminal Performance Objective (TPO):</b>	Th.	Pr.	Tot.							
<p><b>Given:</b> Single needle lock stitch machine, Double needle lock stitch machine, sample product and front part.</p> <p><b>What:</b> Attach Zipper.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Zipper is fixed with the mark line.</li> <li>• Zipper functions smoothly.</li> <li>• Zipper is straight.</li> <li>• No damage found.</li> <li>• Zipper is attached as per the given sample product.</li> </ul>	<p>0.5</p>	<p>3.5</p>	<p>4.0</p>							
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Refill the bobbin with thread.</li> <li>3. Fix the needle of the machine as per stitching size.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Define zipper, single ply, double ply and high of pant.</li> <li>• Explain how to joint single ply with front part.</li> <li>• Explain how to joint zipper with single ply.</li> <li>• Explain how to joint double ply with the zipper.</li> </ul>								

	<ol style="list-style-type: none"> <li>4. Match the thread color with the fabric.</li> <li>5. Adjust the tension of the thread.</li> <li>6. Switch ON the machine.</li> <li>7. Join single ply with front part by giving top stitch.</li> <li>8. Attach zipper with the single ply.</li> <li>9. Make round top stitch with single ply and front part.</li> <li>10. Join double ply with zipper.</li> <li>11. Join right side of the front part with the zipper.</li> <li>12. Join high with the front part following single needle lock stitch machine.</li> <li>13. Switch OFF the machine.</li> <li>14. Cut the unwanted thread.</li> <li>15. Check the stitching quality.</li> <li>16. Clean the work place.</li> <li>17. Restore the tools and materials in the safe place.</li> </ol>	<ul style="list-style-type: none"> <li>• List the steps to fix zipper.</li> </ul>								
<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Double Needle Lock Stitch Machine, Screwdriver, Thread Trimmer, Measurement Tape, Thread, Zipper, Fabric and Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap</p>										
<p><b>4</b></p>	<p><b>Task:</b> Join Back Rise</p>	<table border="1"> <thead> <tr> <th data-bbox="762 1377 1145 1489"> <b>Terminal Performance Objective (TPO):</b> </th> <th data-bbox="1145 1377 1254 1489">Th.</th> <th data-bbox="1254 1377 1362 1489">Pr.</th> <th data-bbox="1362 1377 1476 1489">Tot.</th> </tr> </thead> <tbody> <tr> <td data-bbox="762 1489 1145 1933"> <b>Given:</b> Two needle five thread over lock machine, Two needle lock stitch machine, measurements, Back parts of pant and sample product.   <b>What:</b> Join Back Rise   <b>How well:</b> </td> <td data-bbox="1145 1489 1254 1933">0.5</td> <td data-bbox="1254 1489 1362 1933">1.5</td> <td data-bbox="1362 1489 1476 1933">2.0</td> </tr> </tbody> </table>	<b>Terminal Performance Objective (TPO):</b>	Th.	Pr.	Tot.	<b>Given:</b> Two needle five thread over lock machine, Two needle lock stitch machine, measurements, Back parts of pant and sample product.  <b>What:</b> Join Back Rise  <b>How well:</b>	0.5	1.5	2.0
<b>Terminal Performance Objective (TPO):</b>	Th.	Pr.	Tot.							
<b>Given:</b> Two needle five thread over lock machine, Two needle lock stitch machine, measurements, Back parts of pant and sample product.  <b>What:</b> Join Back Rise  <b>How well:</b>	0.5	1.5	2.0							

		<ul style="list-style-type: none"> <li>• Joint of the back rise is completed with given measurement and sample product.</li> <li>• Line of the sewing thread is straight in back rise.</li> <li>• No missed stitch is found in the back part.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Adjust the needle of two needle five thread over lock machine.</li> <li>3. Fix thread in the needle two needle five thread over lock machine.</li> <li>4. Adjust the thread tension of the needle two needle five thread over lock machine.</li> <li>5. Switch ON the two needle five thread over lock machine.</li> <li>6. Join the back rise of the both part by two needle five thread over lock machine.</li> <li>7. Fix thread in the needle two needle lock stitch machine.</li> <li>8. Adjust the thread tension of the needle two needle lock stitch machine.</li> <li>9. Give top stitch in the back rise by the two needle lock stitch machine.</li> <li>10. Switch OFF the machine.</li> <li>11. Cut the unwanted thread in back rise.</li> <li>12. Check the stitching quality.</li> <li>13. Clean the working place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Explain how to give top stitch in the back rise.</li> <li>• Explain the necessity to give top stitch in the back rise.</li> <li>• List the steps to joint back rise of the both part.</li> </ul>			

	14. Store the tools and materials in the safe place.				
	<p><b>Tools/equipment/materials required:</b> Two Needle Five Thread Over Lock Machine, Double Needle Lock Stitch Machine, Screwdriver, Tweezers/Pincer, Thread Trimmer, Measurement Tape, Thread, and Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap</p>				
5	<b>Task:</b> Make Back Pocket.	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine, Back part of pant and measurement/sample.</p> <p><b>What:</b> Make Back Pocket.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Back pocket is made as per given measurement/sample.</li> <li>• Stitching line is straight.</li> </ul>	Th. 0.5	Pr. 2.5	Tot. 3.0
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Refill the bobbin with machine.</li> <li>3. Fix the needle of the machine as per stitching size.</li> <li>4. Match the thread color with the fabric.</li> <li>5. Adjust the tension of the thread.</li> <li>6. Adjust the guide 1/16.</li> <li>7. Adjust the mark line of the piece of fabric.</li> <li>8. Switch ON the machine.</li> <li>9. Fold the back pocket as per mark line following machine.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Identify back pocket of pant.</li> <li>• Explain how to use guide 1/16 and ¼.</li> <li>• Describe how to adjust the needle.</li> <li>• Analyze why it is must give top stitch on back part.</li> <li>• State the procedure to make back pocket.</li> </ul>			

	<p>10. Back pocket folded with iron.  11. Join back pocket with back part following mark line.  12. Adjust the guide ¼ with single needle lock stitch machine.  13. Give top stitch with ¼-guide use in the back pocket.  14. Switch OFF the machine.  15. Cut the unwanted thread.  16. Count the number of stitch per inch.  17. Clean the work place.  18. Restore the tools and materials in the safe place.</p>				
<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Trimmer, Iron, Pocket Pattern, Screwdriver, Measurement Tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>					
6	<p><b>Task:</b> Make Flap.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine, fabric for flap, inter lining / fusing, Back part, and measurement/sample.</p> <p><b>What:</b> Make Flap.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Flap is made as per given measurement/sample.</li> <li>• Stitching line is straight.</li> <li>• Flap is joined with upper part of the pocket by maintaining the back pocket.</li> </ul>	Th.  0.5	Pr.  2.5	Tot.  3.0
<p><b>Steps:</b></p>		<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Identify flap and inter lining / fusing.</li> </ul>			

	<ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Refill the bobbin with thread.</li> <li>3. Adjust the needle in machine.</li> <li>4. Fix thread in the needle with machine.</li> <li>5. Adjust the tension of thread.</li> <li>6. Switch ON the machine.</li> <li>7. Adjust the inter lining / fusing with the mark line of the fabric.</li> <li>8. Sew the fabric with maintaining the mark line to make flap.</li> <li>9. Turnaround the sewed fabric to get the shape as flap.</li> <li>10. Make the top stitch in the flap with single needle lock stitch machine.</li> <li>11. Attach the flap with back following mark line.</li> <li>12. Turn the flap.</li> <li>13. Sew top stitches on flap with single needle lock stitch machine.</li> <li>14. Switch OFF the machine.</li> <li>15. Cut the unwanted thread.</li> <li>16.</li> <li>17. Clean the working place.</li> <li>18. Store the tools and materials in the safe place.</li> </ol>	<ul style="list-style-type: none"> <li>• Explain the use of inter lining / fusing in the flap.</li> <li>• Explain how to adjust inter lining / fusing in the flap.</li> <li>• Explain how to make top stitch in the flap.</li> <li>• List the steps to make flap.</li> </ul>			
<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Trimmer, Back Part, Screwdriver, Measurement Tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>					
7	<p><b>Task:</b> Perform Side Seem Sewing using 5 Thread Over Lock Machine.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> 5 Thread Over Lock Machine and sample product.</p>	Th.  0.5	Pr.  1.5	Tot.  2.0



		<p><b>What:</b> Perform Side Seem Sewing using 5 Thread Over Lock Machine.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Side seem is over locked as per the sample product.</li> <li>• Stitching line straight.</li> <li>• Care label is fixed.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Fix the needle of the machine as per stitching size.</li> <li>3. Adjust the tension of the thread with five thread over lock machine.</li> <li>4. Fix the care label in the mark area.</li> <li>5. Adjust the both part of the pant with the mark line.</li> <li>6. Switch ON the five thread over lock machine.</li> <li>7. Sew the side seem of pant by over locking machine.</li> <li>8. Switch OFF the machine.</li> <li>9. Cut the unwanted thread.</li> <li>10. Count the number of stitch per inch.</li> <li>11. Clean the work place.</li> <li>12. Restore the tools and materials in the safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Explain how to adjust five thread over lock machine.</li> <li>• Explain the importance to over lock the side seem.</li> <li>• List the steps to perform side seem sewing.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Two Needle Five Thread Over Lock Machine, Thread Trimmer, Back Part, Front Part, Tweezers/Pincer, Care Label, Screw Driver, Measurement Tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
<b>8</b>	<b>Task:</b> Make Loops for Belt	<b>Terminal Performance Objective (TPO):</b>	Th. 0.5	Pr. 2.5	Tot. 3.0

		<p><b>Given:</b> Two needle lock stitch machine, Fabric and Sample.</p> <p><b>What:</b> Make Loops for Belt.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Loops is made with maintaining measurement.</li> <li>• Width and length of all loops are same.</li> <li>• No damage seen.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Refill the bobbin with thread.</li> <li>3. Fix the needle of the machine.</li> <li>4. Match the thread color with the fabric.</li> <li>5. Fix thread in the needle with machine.</li> <li>6. Adjust the tension of the thread.</li> <li>7. Adjust loop making folder with sewing machine.</li> <li>8. Switch ON of the sewing machine.</li> <li>9. Sew loops as per given measurement with sewing machine.</li> <li>10. Cut the sewed fabric with given length to make loops.</li> <li>11. Adjust single needle lock stitch machine.</li> <li>12. Fix the loops with the main body of the pant maintaining the same distance.</li> <li>13. Switch OFF the machine.</li> <li>14. Cut the unwanted thread.</li> <li>15. Clean the work place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Define loops.</li> <li>• Explain how to fold the fabric to make loops.</li> <li>• Explain the necessity of loops in the pant.</li> <li>• Explain how to cut the sewed fabric to make loops.</li> <li>• List the steps to make loops for belt.</li> </ul>			

	16. Restore the tools and materials in the safe place.				
	<p><b>Tools/equipment/materials required:</b> Two Needle Lock Stitch Machine, Thread Trimmer, Fabrics, Tweezers/Pincer, Screwdriver, Measurement Tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
9	<b>Task:</b> Make Belt.	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine, main body and sample product.</p> <p><b>What:</b> Make Belt.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Belt is made as per given sample.</li> <li>• Stitch is straight.</li> <li>• Number of stitches SPI stitch per inch as per 9-11.</li> <li>• Main label is fixed.</li> </ul>	Th. 0.5	Pr. 4.5	Tot. 5.0
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Refill the bobbin with thread.</li> <li>3. Fix the needle of the single lock stitch machine.</li> <li>4. Fix thread in the needle with machine.</li> <li>5. Adjust the tension of the thread single lock stitch machine.</li> <li>6. Fold the belt with iron as per layout.</li> <li>7. Switch ON the sewing machine.</li> <li>8. Attach main label with belt fabric with sewing machine.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Explain how to fold with iron.</li> <li>• Describe how to join belt with main body.</li> <li>• Explain the procedure of making a belt.</li> </ul>			

	<p>9. Join belt with the main body as per given measurement with sewing machine.</p> <p>10. Sew the mouth closing in belt with single needle lock stitch machine.</p> <p>11. Give the top stitch belt with single needle lock stitch machine.</p> <p>12. Join loops on belt with single needle lock stitch machine.</p> <p>13. Give the loop tack with single needle lock stitch machine.</p> <p>14. Switch OFF the machine.</p> <p>15. Cut the unwanted thread.</p> <p>16. Clean the work place.</p> <p>17. Restore the tools and materials in the safe place.</p>									
<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Trimmer, Scissors, Guide 1/16, Main Label, Belt Fabrics, Screwdriver, Measurement Tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>										
10	<p><b>Task:</b> Perform In-Seam Sewing</p>	<table border="1"> <thead> <tr> <th data-bbox="762 1171 1145 1279"><b>Terminal Performance Objective (TPO):</b></th> <th data-bbox="1145 1171 1254 1279">Th.</th> <th data-bbox="1254 1171 1362 1279">Pr.</th> <th data-bbox="1362 1171 1474 1279">Tot.</th> </tr> </thead> <tbody> <tr> <td data-bbox="762 1279 1145 1937"> <p><b>Given:</b> Two needle five thread over lock machine, Main body and Sample.</p> <p><b>What:</b> Perform In-Seam Sewing.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>The seam sewing is as per given measurement/sample.</li> <li>Seam sewing is straight.</li> <li>No faulty stitch is seen.</li> </ul> </td> <td data-bbox="1145 1279 1254 1937">0.5</td> <td data-bbox="1254 1279 1362 1937">1.5</td> <td data-bbox="1362 1279 1474 1937">2.0</td> </tr> </tbody> </table>	<b>Terminal Performance Objective (TPO):</b>	Th.	Pr.	Tot.	<p><b>Given:</b> Two needle five thread over lock machine, Main body and Sample.</p> <p><b>What:</b> Perform In-Seam Sewing.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>The seam sewing is as per given measurement/sample.</li> <li>Seam sewing is straight.</li> <li>No faulty stitch is seen.</li> </ul>	0.5	1.5	2.0
<b>Terminal Performance Objective (TPO):</b>	Th.	Pr.	Tot.							
<p><b>Given:</b> Two needle five thread over lock machine, Main body and Sample.</p> <p><b>What:</b> Perform In-Seam Sewing.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>The seam sewing is as per given measurement/sample.</li> <li>Seam sewing is straight.</li> <li>No faulty stitch is seen.</li> </ul>	0.5	1.5	2.0							

		<ul style="list-style-type: none"> <li>No extra thread is seen.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>Collect required tools &amp; materials.</li> <li>Fix the needle of the over lock machine as per stitching.</li> <li>Fix thread in the needle of five thread over lock machine.</li> <li>Adjust the tension thread of five thread over lock machine.</li> <li>Switch ON the over lock machine.</li> <li>Sew the in seam of the main body by over locking machine with maintaining crotch point.</li> <li>Give the tack with single needle lock stitch machine.</li> <li>Switch OFF the sewing machine.</li> <li>Cut unwanted thread.</li> <li>Clean the work place.</li> <li>Restore tools &amp; materials in safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>Explain how to adjust a crotch point maintaining with over lock machine.</li> <li>State the steps to perform In-seam sewing.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Two Needle Five Thread Over Lock Machine, Thread Trimmer, Scissors, Tweezers/Pincer, Main Body, Screwdriver, Measurement Tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
<b>11</b>	<p><b>Task:</b> Hem Leg Opening.</p>	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Single needle lock stitch machine and a sample product.</p> <p><b>What:</b> Hem Leg Opening.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>Hem leg opening is as per sample product.</li> </ul>	<p>Th.</p> <p>0.5</p>	<p>Pr.</p> <p>5.5</p>	<p>Tot.</p> <p>6.0</p>

		<ul style="list-style-type: none"> <li>• Hemming stitch is straight.</li> <li>• No puckering seen.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools &amp; materials.</li> <li>2. Fix the needle of the single needle lock stitch machine as per stitching.</li> <li>3. Fix thread in the needle of single needle lock stitch machine.</li> <li>4. Adjust the tension thread of single needle lock stitch machine.</li> <li>5. Adjust the guide 1/16 with single needle lock stitch machine.</li> <li>6. Match the thread color with the fabric/design/sample.</li> <li>7. Fold the bottom part of the leg as per given measurement.</li> <li>8. Switch ON the sewing machine.</li> <li>9. Hem the leg opening with maintaining the straight line.</li> <li>10. Switch OFF the sewing machine.</li> <li>11. Cut unwanted thread</li> <li>12. Count the number of stitch per inch.</li> <li>13. Clean the work place.</li> <li>14. Restore tools &amp; materials in safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Define hem and leg opening.</li> <li>• Explain the purpose of thread color/fabric/design/sample match.</li> <li>• Explain how to a fold with leg opening.</li> <li>• State the cause for puckering.</li> <li>• Explain the procedure of hem leg opening.</li> </ul>			
	<p><b>Tools/equipment/materials required:</b> Single Needle Lock Stitch Machine, Thread Trimmer, Scissors, Guide 1/16, Main Body, Screwdriver, Measurement Tape, Thread, Needle.</p> <p><b>PPE:</b> Apron, Mask, Hair Scarf/Cap.</p>				
<b>12</b>	<b>Task:</b> Make Eye Hole	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Industrial buttonhole machine, main</p>	Th. 0.5	Pr. 1.5	Tot. 2.0

		<p>body of pant, sample and measurement/design.</p> <p><b>What:</b> Make Eye Hole.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Eyehole is made as per measurement/design.</li> <li>• Eyehole is adjusted with the button size.</li> <li>• No damage seen around the eyehole.</li> </ul>			
	<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools and materials.</li> <li>2. Adjust the needle in the buttonhole machine.</li> <li>3. Adjust the thread tension of buttonhole machine.</li> <li>4. Fixed the blade of the machine as per sample hole size.</li> <li>5. Fixed the thread in the needle.</li> <li>6. Mark the buttonhole position as per design chart or sample.</li> <li>7. Place the main body of the pant with buttonhole machine.</li> <li>8. Switch ON the buttonhole machine.</li> <li>9. Make hole for the button with buttonhole machine.</li> <li>10. Switch OFF the sewing machine.</li> <li>11. Cut unwanted thread.</li> <li>12. Match the hole with button.</li> <li>13. Clean the work place.</li> <li>14. Restore tools &amp; materials in safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Explain the purpose of making eyehole.</li> <li>• Explain how to adjust color match.</li> <li>• Explain how to adjust needle and blade in buttonhole machine.</li> <li>• Describe eyehole making procedure.</li> </ul>			
<p><b>Tools/equipment/materials required:</b> Industrial Button Hole Machine, Thread Trimmer, Main Body, Screw Driver ,Measurement Tape, Marking Pencil, Thread, Pincer, Screwdriver, Needle.</p>					

	<b>PPE:</b> Apron, Mask, Hair Scarf/Cap.				
<b>13</b>	<b>Task:</b> Attach Button	<p><b>Terminal Performance Objective (TPO):</b></p> <p><b>Given:</b> Industrial button stitch machine, Button, Main body of shirt &amp; sample.</p> <p><b>What:</b> Attach Button.</p> <p><b>How well:</b></p> <ul style="list-style-type: none"> <li>• Button is fixed maintaining the measurement/sample</li> <li>• Button is adjusted with the buttonhole.</li> <li>• No damage seen in button and around button area.</li> <li>• Passes the Pulling test.</li> <li>• Unwanted thread removed.</li> </ul>	Th. 0.5	Pr. 1.5	Tot. 2.0



<p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Collect required tools and materials.</li> <li>2. Adjust the needle in the button stitch machine.</li> <li>3. Mark the button position as per buttonhole position.</li> <li>4. Switch ON the button stitch machine.</li> <li>5. Attach the button with main body of pant.</li> <li>6. Switch OFF the button stitch machine.</li> <li>7. Cut the unwanted thread.</li> <li>8. Conduct pulling test for button.</li> <li>9. Clean the work place.</li> <li>10. Restore tools &amp; materials in safe place.</li> </ol>	<p><b>Enabling objectives:</b></p> <ul style="list-style-type: none"> <li>• Identify different types of button.</li> <li>• Explain how to adjust needle in button stitch machine.</li> <li>• Describe how to adjust button in the button stitch machine.</li> <li>• Explain the function of button stitch machine.</li> <li>• Describe Pulling test.</li> <li>• List the steps to attach button.</li> </ul>
<p><b>Tools/equipment/materials required:</b> Industrial Button Stitch Machine, Thread Trimmer, Main Body, Screwdriver, Button, Measurement Tape, Gimlet, Thread, Pincer, Screwdriver and Needle.</p> <p><b>PPE:</b> Apron, Goggles, Mask, Hair Scarf/Cap.</p>	

### 23 LIST OF TOOLS AND EQUIPMENT

S. N.	Name of the items	Specification	Quantity
1.	Single needle lock stitch machine	Juki or equivalent	18 pcs.
2.	Computerized single lock stitch machine	Juki or equivalent	02 pcs.
3.	Double needle lock stitch machine	Juki or equivalent	02 pcs.
4.	One needle chain stitch machine	Juki or equivalent	02 pcs.
5.	Two needle chain stitch machine	Juki or equivalent	02 pcs.
6.	Two needle four thread over lock machine	Juki or equivalent	02 pcs.
7.	Two needle five thread over lock machine	Juki or equivalent	02 pcs.
8.	Flat lock ( flat bed/ cylinder bed) machine	Juki or equivalent	02 pcs.
9.	Industrial button hole machine	Juki or equivalent	01 pcs.
10.	Industrial button stitch machine	Juki or equivalent	01 pcs.
11.	Rib cutting machine		01 pcs.
12.	Industrial steam iron		02 pcs.
13.	Electrical blower machine		01 pcs.
14.	Flat screw driver	2"- 10"	20 pcs.
15.	Star screw driver	2"- 10"	20 pcs.
16.	Scissors	9"-11"	20 pcs.
17.	Thread trimmer	Standard size	20 pcs.
18.	Tweezers	Standard size	20 pcs.
19.	Stitch opener	Standard size	20 pcs.
20.	Allen key set	Standard size	5 set
21.	Steel scale	12"	1 Dozen
22.	Pliers	8"	6 pcs.
23.	Nose pliers	8"	6 pcs.
24.	Cutting pliers	8"	6 pcs.
25.	Adjustable wrench	8"	6 pcs.
26.	Neon tester	Standard size	6 pcs.
27.	Ball pin hammer	Standard size	6 pcs.

### 24 LIST OF TRAINING MATERIALS

S. N.	Name of the items	Specification	Quantity
1.	Fabrics	Knit	50 kg
2.	Fabrics	Woven	150 yard
3.	Fabrics Denim	Denim	100 yard
4.	Thread	Cotton	50 pcs.
5.	Needle	ORGAN or equivalent	5 Box
6.	Bobbin	Stainless steel	40 pcs.
7.	Bobbin case	Stainless steel	20 pcs.
8.	Guide	Stainless steel	12 pcs.
9.	Measurement tape		20 pcs.

10.	Rotary hook	Stainless steel	10 pcs.
11.	Lopper	Stainless steel	10 pcs.
12.	Machine oil	Silicone	10 liter
13.	Fusing/ interlining		25 yard
14.	Pattern board		12 pcs.
15.	Marking chalk		20 pcs.
16.	Shape scale	Stainless steel	20 pcs.
17.	Whiteboard Marker		24 pcs.
18.	Flipchart/Wall Paper		24 pcs.
19.	Safety Gears (Apron, Goggles, Mask, Hair scarf/Cap, Air plug)		24 Sets.
20.	Fire extinguisher	5 Kg each	2 pcs.
21.	Pencil		24 pcs.
22.	Erasure		24 pcs.
23.	Sharpener		24 pcs.
24.	Permanent Marker pen		24 pcs.
25.	Exercise written book		24 pcs.

## 25 PHYSICAL FACILITIES FOR 20 TRAINEES

S. N.	Name of the items	Specification	Quantity	Unit
1.	Workshop with Theory Corner	35 ft. x 30 ft.	1	Pcs.
2.	White Board	4 ft. x 8 ft.	1	Pcs.
3.	Display Board	4 ft. x 8 ft.	1	Pcs.

## 26 LIST OF TOOLS IN THE HAND TOOL BOX

S. N.	Name of the items	Specification	Quantity	Unit
1.	Scissors		01 pcs	
2.	Stitch opener		01 pcs	
3.	Bobbin		01 pcs	
4.	Bobbin case		01 pcs	
5.	Thread trimmer		01 pcs	
6.	Measurement tape		01 pcs	
7.	Marking chalk		01 pcs	
8.	Screw driver		01 pcs	
9.	Needle		01 pkt	

## 27 SUGGESTED REFERENCE BOOKS

- Garments and technology – Prof. M.A Kashem, Granthanir, Publications, Dhaka, Bangladesh.
- Garments make and sewing machine maintenance – Mohon khan, Ichchamoti prokashoni, publications, Dhaka, Bangladesh.
- Modern garments guide -- Mohon khan, Prime, Publications, Dhaka, Bangladesh.
- Introduction of garments factory- Mohammad Faizur Rahman.

## 28 CURRICULUM TERMS AND DEFINITION

<b>Competency</b>	Competency means a cluster of related abilities, commitments, knowledge, and skills that enable a trainees or person to act effectively in a job.
<b>Curriculum Guide</b>	A curriculum guide is a detail resource for trainees/instructors to conduct training programs effectively. The guide intends to add the trainers/instructors in developing lesson plan, handouts/learning materials, training manuals, and evaluation criteria etc., which are basic elements in the teaching learning process.
<b>Curriculum</b>	A plan for providing sets of learning opportunities to achieve broad goal and related specific objectives for the people by a single school center.
<b>DACUM/RJA</b>	<u>D</u> eveloping <u>A</u> <u>C</u> URriculum/ <u>R</u> apid <u>J</u> ob <u>A</u> nalysis (DACUM/RJA) is a technique used to identify the competencies relevant to a particular occupation.
<b>Duty</b>	Duty is an arbitrary clustering of related tasks in to broad functional area or general area of responsibility of trainees.
<b>Enabling Objective</b>	A statement expressing a knowledge, skills or attitudes those will enable the trainee to accomplish a terminal performance objective.
<b>Instructional Guide</b>	Instructional guide is a well-planned and structured document for the instructor to deliver effective instruction so that trainees can attain learning objectives as per training standards.
<b>Module</b>	A module is defined as a specific learning material. Modules are essentially self-contained. Self-instructional packages, with learning paced by each learner according to his/her individual ability and needs.
<b>Occupational Analysis</b>	Occupational analysis is a process used to identify the duties and tasks those are important to workers in any given occupation. A number of alternative and acceptable approaches to occupational analysis are available.
<b>Program guide</b>	A program guide is a comprehensive resource for trainers/instructors, planners, and top-level management for planning and implementation of any training programs.
<b>Program Objectives</b>	The objectives are set in a broad way to target to achieve mastery learning of the complete occupation.
<b>Skill</b>	The ability to perform on occupational task with the degree of proficiency required for a given occupation.
<b>Step</b>	The smallest discrete or observable aspect of a task.
<b>Task Analysis</b>	Task analysis is the process of identifying and writing down the specific skills, knowledge and attitudes that distinguish someone who performs a task competency from someone who cannot perform the task at all.
<b>Task</b>	A unit of work complete in itself that forms a logical part of an occupation. It can be broken down into discrete steps.

## 29 CURRICULUMS DEVELOPMENT TEAM

S. N.	Name	Designation	Organization	Contact Number
1.	Hosna Khatun.	Sr. Instructor/ Trainer, Sewing Machine Operation	Freelancer Consultant	01913-022611
2.	Md. Abdullah All Mamun Bhuiyan	Sr. Officer-Planning and IE, Sewing Machine Operation	BKMEA, Abanti Colour Tex Ltd. Crony Group.	01912191015
3.	Sumon Fakir	Sr. Operator, Sewing Machine Operator	BKMEA, Abanti Colour Tex Ltd. Crony Group.	01944539214
4.	Din Mohammad khan (Dulal)	Instructor/Trainer, Sewing Machine Operation	Dhaka Ahsania Mission (VTI-Pallabi)	01770559480
5.	Md. Amir Hossain ( Razib)	Process expert	Dhaka Ahsania Mission (VTI-Pallabi)	01677478616
6.	Lubna Afroz Rani.	Trainer, Sewing Machine Operation	BGMEA(CEBAI)	01737149888
7.	Md. Raisul Islam	Executive, IE. Sewing Machine Operation	BKMEA, Epyllion Group	01912048633
8.	Iftakharul Alam Khan	Project Officer	SEP-B	01913 854 949
9.	Md. Anisuzzaman	Training Coordinator	SEP-B	01912-153859
10.	Anoj Bhattarai	Consultant	TITI, Nepal	

Overall Supervision: Md. Anisuzzaman

Workshop Facilitator(s): Md. Anisuzzaman, Anoj Bhattarai and Akim Shrestha

Record and Documentation: Anoj Bhattarai and Akim Shrestha

## 30 REFERENCES (FOR DEVELOPING CURRICULUMS)

- Bangladesh Technical Education Board. (2013, July). *National Competency Standards for Sewing Machine Operation*. National Skills Certificate Level-1, 2 & 3 (RMG Sector).
- Skills for Unemployment and Underemployed Labour (SkillFUL) Project, Swisscontact (2012, July). Curriculum Guide for Garments Machine Operator. Dhaka, Bangladesh.
- Skills and Employment Programme-Bangladesh (SEP-B) (2014, September). Rapid Job Analysis of Sewing Machine Operator. Dhaka Bangladesh.
- Contents of curricula of UCEP, Save the Children and BGMEA and BKMEA

### 31 LINKAGES OF SEP-B CURRICULUM WITH BTEB COMPETENCY STANDARDS

S. N.	SEP-B Training Module	BTEB Competency Standards
1.	Apply occupational safety and health procedures at the work place.	GN100412A Practice Occupational Health and Safety (OHS)
2.	Discuss fundamental of sewing machine operation.	RMGSMO100112A: Operate Single Needle Lock Stitch Machine RMGSMO100212A: Operate Double Needle Lock Stitch Machine RMGSMO100313A: Operate Single Needle Chain Stitch Machine RMGSMO100412A: Operate Double Needle Chain Stitch Machine RMGSMO200512A: Operate Four Thread Over Lock Machine RMGSMO200612A: Operate Five Thread Over Lock Machine RMGSMO301012A: Operate Buttonhole Machine RMGSMO301112A: Operate Button Attach Machine.
3.	Perform stitching works.	-Do-
4.	Perform shirt sewing.	-Do-
5.	Perform T-shirt/Polo shirt sewing.	-Do-
6.	Perform pant/trouser sewing.	-Do-

### 32 SPECIAL NOTE FOR TRAINING PROVIDERS

Since the technology is moving fast, if there will have any new demand/skills beyond the curriculum guide, please send the comments and suggestions to the address given in the curriculum. The project believes that the development has no boundaries.

Skills and Employment Programme-Bangladesh (SEP-B)

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