

**TEXTILES COMMITTEE**

Infrastructure Requirements – Machine to Trainee ratio

**RESOURCE SUPPORT AGENCY
under Samarth**

Sr. No	Name of the Module	Course Code	Machine/Tools/Equipments Requirement	Machine/Tools/Equipments to Trainee Ratio
1.	Embroidery Machine Operator	TC GMT 01	Embroidery Machines	Machine to trainee ratio 1:2
2.	Fuser & Ironer	TC GMT 02	<ol style="list-style-type: none">1. Ironing table2. Steam iron with steam attachment3. Fusing machine	<ol style="list-style-type: none">1. Ironing table – Machine to trainee ratio 1:32. Steam iron with steam attachment - Machine to trainee ratio 1:33. Fusing machine- Machine to trainee ratio 1:10
3.	Computer Embroidery Machine Operator	TC GMT 03	Minimum six head computer embroidery machine along with computer and required supporting software	Machine to trainee ratio 1:15
4.	Garment Checker	TC GMT 04	Inspection table (minimum size 60X40 inches)	Machine to trainee ratio 1:5
5.	CAD Operator	TC GMT 05	<ol style="list-style-type: none">1. Computer set with CAD software2. Digitizing board3. Printers / plotters	<ol style="list-style-type: none">1. Computer set with CAD software – Machine to trainee ratio 1:152. Digitizing board – Machine to trainee

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				ratio 1:30 3. Printers / plotters – Machine to trainee ratio 1:30
6.	Sewing Machine Operator	TC GMT 06	1. Industrial Sewing Machine 2. Buttonhole and buttoning machines for demo purpose:	1. Sewing Machines: Machine to trainee ratio 1:2 2. Buttonhole and buttoning machines for demo purpose: Machine to trainee ratio 1:15
7.	Pattern Maker	TC GMT 07	Table for Pattern Making (minimum size 60X40 inches)	Machine to Trainee ratio 1:5
8.	Fabric Checker	TC GMT 08	1. Checking table (minimum size 64X40 inches) 2. Fabric inspection machine	1. Checking table – Machine to Trainee ratio 1:5 2. Fabric inspection machine – Machine to Trainee ratio 1:10
9.	Fabric Cutter	TC GMT 09	Cutting machines – straight/bend/circular	Machine to Trainee ratio 1:10

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10.	Overlock & Flatlock Machine Operator	TC GMT 10	<ol style="list-style-type: none">1. Overlock Stitching machines with accessories2. Flatlock Stitching machines with accessories	Machine to Trainee ratio 1:4
11.	Sewing Machine Mechanic	TC GMT 11	Sewing machine, Over lock machine, Flat lock machine, Feed of the arm machine, Bartack machine, Button stitch machine, Button hole machine	Machine to Trainee ratio 1:10 (for respective machines)
12.	Circular Knitting Machine Operator	TC KNT 01	Circular Knitting Machine	Machine to trainee ratio 1:10
13.	Warp Knitting Machine Operator	TC KNT 02	Warp Knitting Machine	Machine to trainee ratio 1:15
14.	Knitting Machine Operator – Flat Bed Knitting	TSC/Q4102	Flat Bed Knitting Machine	Machine to trainee ratio 1:15
15.	HHP Cheese Dyeing Machine Operator	TC PRC 01	<ol style="list-style-type: none">1. HT-HP Cheese Dyeing machine2. One crane for shifting bobbin carrier3. Hydro extractor (Desirable)	<ol style="list-style-type: none">1. HT-HP Cheese Dyeing machine:- Machine to Trainee ratio 1:152. Hydro extractor (Desirable):- Machine to Trainee ratio 1:30

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16.	Singeing Machine Operator	TC PRC 02	Fabric Singeing Machine	Machine to trainee ratio 1:30
17.	Desizing Machine Operator	TC PRC 03	Fabric Desizing Machine	Machine to trainee ratio 1:30
18.	Continuous Bleaching Range Machine Operator	TC PRC 04	Continuous Bleaching Range	Machine to trainee ratio 1:30
19.	Mercerizing Machine Operator	TC PRC 05	Fabric Mercerizing Machine	Machine to trainee ratio 1:30
20.	Jigger Machine Operator	TC PRC 06	Jigger Machine of any type like Jumbo or hooded etc	Machine to trainee ratio 1:30
21.	Stenter Machine Operator	TC PRC 07	Stenter Machine	Machine to trainee ratio 1:30
22.	Calendering Machine Operator	TC PRC 08	Calendering Machine	Machine to trainee ratio 1:30
23.	Zero Zero Finishing Machine Operator	TC PRC 09	Zero Zero Finishing Machine	Machine to trainee ratio 1:30
24.	Winch Dyeing Machine Operator	TC PRC 10	Winch Dyeing Machine	Machine to trainee ratio 1:30
25.	Soft Flow Dyeing Machine Operator	TC PRC 11	Soft Flow Dyeing Machine	Machine to trainee ratio 1:30
26.	Compacting Machine Operator	TC PRC 12	Compacting Machine	Machine to trainee ratio 1:30

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27.	Washing Operator (DENIM)	TC PRC 13	Washing Machine, Hydroextractor, Drier, Work station fitted with pant leg shaped strong wooden flat, Design pattern made up of rubber material, Compressed air with pressure, Work station Mounted Horizontal to the surface level - Fitted with Two M.S.pipe, each pipe per leg of the Jeans pant and both end of each pipe covered by the Rubber tube / sheet & tighten by suitable clamping. complete set is attached to the semi-rotary mechanism, Grinding Machine, Grinding wheel, Tacking Machine/Hand Tacking gun, Pressure tank for spraying, fitted with pressure indicator & Regulator.	Machine to trainee ratio 1:30
28.	Handloom Weaver (Frame Loom)	TC HLM 01	Handloom Machine	Machine to Trainee ratio 1:5

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29.	Hand Dyeing Operator	TC HLM 02	Dye Bath/Dyeing Vat and burners	Machine to Trainee ratio 1:5
30.	Hand Block Printing	TC HLM 03	In case of production units existing facility of blocks and printing table and in case of other Training Institutes printing table with blocks of different design and suitable no. of washers and boiler for steaming	Machine to Trainee ratio 1:4
31.	Dobby Handloom Weaver	TC HLM 04	Dobby Handloom	Machine to Trainee ratio 1:5
32.	Jacquard Handloom Weaver	TC HLM 05	Jacquard handloom	Machine to Trainee ratio 1:5
33.	Handloom Weaving - Two Treadles	TC HLM 06	Handloom Two Tradles Machine	Machine to Trainee ratio 1:5
34.	Handloom Weaving - Multi Treadles	TC HLM 07	Handloom Multi Tradles Machine	Machine to Trainee ratio 1:5
35.	Handloom Weaving - Draw boy or Jala	TC HLM 08	Handloom - Draw boy/Jala loom	Machine to Trainee ratio 1:5
36.	Handloom Weaving (Advance) - Dobby	TC HLM 09	Dobby Handloom	Machine to Trainee ratio 1:5
37.	Handloom Weaving	TC HLM 10	Jacquard Handloom	Machine to Trainee ratio 1:5



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	(Advance) - Jacquard			
38.	Handloom Design (Manual)	TC HLM 11	Handloom	Machine to Trainee ratio 1:5
39.	Handloom Hand Dyer	TC HLM 12	<ol style="list-style-type: none"> 1. Dyeing Container (Metallic/steel) 2. Burners 3. Dying Utensils Set 	Machine to Trainee ratio 1:5
40.	Handloom Hand Block Printer	TC HLM 13	<ol style="list-style-type: none"> 1. Printing Table 2. Printing Blocks 3. Dyeing Container (Metallic/steel) 4. Burners 5. Dying Utensils Set 	Machine to Trainee ratio 1:10
41.	Electroplating and Effluent Treatment	TC MET 01	<ol style="list-style-type: none"> 1. Buffering, Grinding & Polishing machine 2. Electro plating relevant line tanks 3. Effluent Treatment plant 	<ol style="list-style-type: none"> 1. Buffering, Grinding & Polishing machine (Machine to Trainee ratio 1:10) 2. Electro plating relevant line tanks (Machine to Trainee ratio 1:4) 3. Effluent Treatment plant
42.	Basic Art of Engraving	TC MET 02	Engraving equipments [Working Table (Tripod Stand), Engraving Kalam and Hammers]	Machine to Trainee ratio 1:1

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43.	Lacquering and Painting	TC MET 03	<ol style="list-style-type: none">1. Buffering, Grinding & Polishing machine2. Degreasing machine3. Spray booth4. Spray Gun5. Oven with backing6. Fresh Air System/Compressor	<ol style="list-style-type: none">1. Buffering, Grinding & Polishing machine (Machine to Trainee ratio 1:10)2. Degreasing machine (Machine to Trainee ratio 1:30)3. Spray booth (Machine to Trainee ratio 1:30)4. Spray Gun (Machine to Trainee ratio 1:30)5. Oven with backing (Machine to Trainee ratio 1:30)6. Fresh Air System/Compressor (Machine to Trainee ratio 1:30)
44.	Packaging	TC MET 04	Packaging machine (Sealing Equipments, Strapping equipments, wrapping machine, coding and labeling equipment)	Machine to Trainee ratio 1:30

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45.	Powder Coating	TC MET 05	<ol style="list-style-type: none">1. Pre treatment line of tanks for Phosphating / chromating2. Dryer Oven3. Spray booth4. Powder Spray Gun5. Curing Oven with backing6. Fresh Air System/Compressor	<ol style="list-style-type: none">1. Pre treatment line of tanks for Phosphating / chromating (Machine to Trainee ratio 1:4)2. Dryer Oven (Machine to Trainee ratio 1:30)3. Spray booth (Machine to Trainee ratio 1:30)4. Powder Spray Gun (Machine to Trainee ratio 1:30)5. Curing Oven with backing (Machine to Trainee ratio 1:30)6. Fresh Air System/Compressor (Machine to Trainee ratio 1:30)
46.	Quality Control	TC MET 06	Facility of testing lab which comprises testing equipments like Toxic Metal testing, drop tester, moisture meter and corrosion Resistance testing, Salt Spray unit, etc	Machine to Trainee ratio 1:30
47.	Computer Aided Design	TC MET 07	Computer system installed with CAD software	Machine to Trainee ratio 1:2



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48.	Welding and Soldering	TC MET 08	<ol style="list-style-type: none"> 1. Welding Machine 2. Soldering Equipments 	<ol style="list-style-type: none"> 1. Welding Machine (Machine to Trainee ratio 1:10) 2. Soldering Equipments (Machine to Trainee ratio 1:2)
49.	Carving Artisan - Stonecraft	HCS/Q1502	<ol style="list-style-type: none"> 1. Sanding / Buffing Machine 2. Marble Cutting Machine 3. Hand Cutter Machine 	<ol style="list-style-type: none"> 1. Sanding / Buffing Machine (Machine to Trainee ratio 1: 10) 2. Marble Cutting Machine (Machine to Trainee ratio 1: 10) 3. Hand Cutter Machine (Machine to Trainee ratio 1: 15)
50.	Inlay Artisan – Stonecraft	HCS/Q1504	Buffing Machine	Machine to Trainee ratio 1: 10
51.	Casting Operator (Metal Handicrafts)	HCS/Q2801	<ol style="list-style-type: none"> 1. Furnace 2. Drill Machine 	<ol style="list-style-type: none"> 1. Furnace (Machine to Trainee ratio 1: 30) 2. Drill Machine (Machine to Trainee ratio 1: 15)

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52.	Stamping Operator (Metal Handicrafts)	HCS/Q2802	Stamping Machine	Machine to Trainee ratio 1: 10
53.	Sakhta Saaz (Paper Mache)	HCS/Q4401	1. Putty Mixer 2. Hand Grinder 3. Compressor Machine	1. Putty Mixer (Machine to Trainee ratio 1: 10) 2. Hand Grinder (Machine to Trainee ratio 1: 5) 3. Compressor Machine (Machine to Trainee ratio 1: 30)
54.	Engraving/Carving/Etching Assistant	HCS/Q7001	Trimming Tool	Machine to Trainee ratio 1: 2
55.	Traditional Hand Embroiderer	HCS/Q7301	Embroidery Frame/Hoops (round and square)	Embroidery Frame/Hoops (round and square) (Machine to Trainee ratio 1: 1)
56.	Hand Crochet Lace Maker	HCS/Q7703	Lace Making /Crochet tools	Machine to Trainee ratio 1: 1
57.	Master Crochet Lace Maker	HCS/Q7704	Sewing Machine	Machine to Trainee ratio 1: 4
58.	Crochet Lace Tailor	HCS/Q7705	Tailoring (Sewing) Machine	Machine to Trainee ratio 1: 4
59.	Bamboo Mat Weaver	HCS/Q8702	1. Stick / Slitting / Splitting Machine	1. Stick / Slitting / Splitting Machine (Machine to Trainee ratio 1:10)



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			2. Hand saw	2. Hand saw (Machine to Trainee ratio 1:4)
60.	Bamboo Basket Maker	HCS/Q8704	1. Bamboo splitting tools 2. Hand saw	1. Bamboo splitting tools (Machine to Trainee ratio 1: 3) 2. Hand saw (Machine to Trainee ratio 1: 4)
61.	Bamboo Utility Handicrafts Assembler	HCS/Q8705	1. Hand saw / zig saw 2. Circular saw 3. Bamboo shaver saw 4. Bamboo splitter	1. Hand saw / zig saw (Machine to Trainee ratio 1: 4) 2. Circular saw (Machine to Trainee ratio 1: 10) 3. Bamboo shaver saw (Machine to Trainee ratio 1: 4) 4. Bamboo splitter (Machine to Trainee ratio 1: 4)
62.	Handloom Weaver (Carpets)	HCS/Q5412	Carpet Handloom Machine	Machine to Trainee ratio 1:5
63.	Carpet Weaver (Knotted)	HCS/Q5701	Carpet Knotted Machine	Machine to Trainee ratio 1:5
64.	Carpet Weaver (Tufted)	HCS/Q5702	Carpet Tufting Machine	Machine to Trainee ratio 1:5
65.	Latexing Man (Carpets)	HCS/Q5402	1. Wooden frame	1. Wooden frame - Machine to



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			<ol style="list-style-type: none"> 2. Design Plate 3. Brushes 4. Comb 	<p>Trainee ratio 1:2</p> <ol style="list-style-type: none"> 2. Design Plate - Machine to Trainee ratio 1:2 3. Brushes - Machine to Trainee ratio 1:1 4. Comb - Machine to Trainee ratio 1:1
66.	Washer (Carpets)	HCS/Q5301	<ol style="list-style-type: none"> 1. Vacuum Cleaner 2. Truck mount Carpet Cleaner 3. Hot Water Extraction 	<ol style="list-style-type: none"> 1. Vacuum Cleaner -Machine to Trainee ratio 1:10 2. Truck mount Carpet Cleaner - Machine to Trainee ratio 1:30 3. Hot Water Extraction - Machine to Trainee ratio 1:2
67.	Finisher (Carpets)	Finisher (Carpets)	<ol style="list-style-type: none"> 1. Tagging machine with Tools 2. Stain Removing Machines with Tools 	<ol style="list-style-type: none"> 1. Tagging machine with Tools - Machine to Trainee ratio 1:30 2. Stain Removing Machines with Tools- Machine to Trainee ratio

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				1:30
68.	Shade Supervisor (Carpets)	HCS/Q5203	1. Color Matching Instrument with Tools 2. Computer	1. Color Matching Instrument with Tools- Machine to Trainee ratio 1:15 2. Computer - Machine to Trainee ratio 1:15
69.	CAD Designer for Carpets	HCS/Q5202	1. Computer with CAD software 2. Computer/Laptop	1. Computer with CAD software - Machine to Trainee ratio 1:15 2. Computer/Laptop - Machine to Trainee ratio 1:5
70.	Loom Supervisor - Knotted Carpet	HCS/Q5410	1. Copper 2. Spindle	1. Copper - Machine to Trainee ratio 1:10 2. Spindle - Machine to Trainee ratio 1:10
71.	Quality Supervisor (Carpets)	HCS/Q5501	1. Moisture Meter 2. Weighing Balance	1. Moisture Meter - Machine to Trainee ratio

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				1:6 2. Weighing Balance - Machine to Trainee ratio 1:30
72.	Colour Mixing Operator (Ceramics)	HCS/Q0801	1. Viscosity Meter 2. Weighing Balance 3. Measuring Scale 4. Fire Clay 5. Color Mixer	1. Viscosity Meter - Machine to Trainee ratio 1:30 2. Weighing Balance - Machine to Trainee ratio 1:30 3. Measuring Scale - Machine to Trainee ratio 1:30 4. Fire Clay -Machine to Trainee ratio 1:15 5. Color Mixer -Machine to Trainee ratio 1:30
73.	Engobing Operator (Ceramics)	Engobing Operator (Ceramics)	1. Weighing Balance 2. Mixer 3. Brush Set	1. Weighing Balance - Machine to Trainee ratio 1:30 2. Mixer - Machine to Trainee ratio 1:30



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				3. Brush Set - Machine to Trainee ratio 1:5
74.	Glazing Operator (Ceramics)	HCS/Q0803	<ol style="list-style-type: none"> 1. Weighing Balance 2. Jiffy Mixer 3. Spatulas 4. Spray Gun 5. Metal Container 6. Brush Set 	<ol style="list-style-type: none"> 1. Weighing Balance - Machine to Trainee ratio 1:30 2. Jiffy Mixer -Machine to Trainee ratio 1:2 3. Spatulas - Machine to Trainee ratio 1:2 4. Spray Gun -Machine to Trainee ratio 1:5 5. Metal Container - Machine to Trainee ratio 1:2 6. Brush Set -Machine to Trainee ratio 1:5
75.	Jigger Operator (Ceramics)	HCS/Q0501	<ol style="list-style-type: none"> 1. Weighing Balance 2. Revolving wheels 3. Cutting wheels 4. Veriner Caliper 	<ol style="list-style-type: none"> 1. Weighing Balance - Machine to Trainee ratio 1:30 2. Revolving wheels - Machine to Trainee ratio



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			5. Molds (Ma	1:2 3. Cutting wheels - Machine to Trainee ratio 1:2 4. Veriner Caliper - Machine to Trainee ratio 1:5 5. Molds -Machine to Trainee ratio 1:2
76.	Mixing Operator (Ceramics)	HCS/Q0301	1. Weighing Balance 2. Big container for mixing	1. Weighing Balance - Machine to Trainee ratio 1:30 2. Big container for mixing - Machine to Trainee ratio 1:30
77.	Moulder (Ceramics)	HCS/Q0401	1. Grinding Wheels 2. Grinders 3. Dividers 4. Scribers	1. Grinding Wheels - Machine to Trainee ratio 1:2 2. Grinders -Machine to Trainee ratio 1:2 3. Dividers -Machine to Trainee ratio 1:2

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				4. Scribes -Machine to Trainee ratio 1:2
78.	Casting Operator - Ceramics	HCS/Q0601	<ol style="list-style-type: none">1. Moulds2. Wheels & Containers3. Slip Trailers4. Clay Cutter5. Spray Gun	<ol style="list-style-type: none">1. Moulds - Machine to Trainee ratio 1:102. Wheels & Containers - Machine to Trainee ratio 1:103. Slip Trailers -Machine to Trainee ratio 1:104. Clay Cutter - Machine to Trainee ratio 1:105. Spray Gun - Machine to Trainee ratio 1:10
79.	Lab Assistant (Ceramics)	HCS/Q1002	<ol style="list-style-type: none">1. Weighing Balance2. Grinders3. Dividers4. Scribes	<ol style="list-style-type: none">1. Weighing Balance - Machine to Trainee ratio 1:302. Grinders -Machine to Trainee ratio 1:53. Dividers -Machine to Trainee ratio 1:5

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				4. Scribers -Machine to Trainee ratio 1:5
80.	Modeller (Ceramics)	HCS/Q0201	<ol style="list-style-type: none">1. Potters Needles2. Cut-off Wires3. Fettling Knives4. Wooden Modeling Tools Set	<ol style="list-style-type: none">1. Potters Needles - Machine to Trainee ratio 1:22. Cut-off Wires -Machine to Trainee ratio 1:23. Fettling Knives - Machine to Trainee ratio 1:24. Wooden Modeling Tools Set -Machine to Trainee ratio 1:10
81.	Quality Check Technician (Ceramics)	HCS/Q1001	<ol style="list-style-type: none">1. Fluid and Vacuum pumps2. Hot Plates3. Microwave4. Heating Mantles5. Mechanical shakers6. Blenders7. Mixers	<ol style="list-style-type: none">1. Fluid and Vacuum pumps - Machine to Trainee ratio 1:62. Hot Plates - Machine to Trainee ratio 1:23. Microwave -Machine to Trainee ratio 1:30

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			8. Refrigerator 9. Oven	4. Heating Mantles - Machine to Trainee ratio 1:2 5. Mechanical shakers - Machine to Trainee ratio 1:2 6. Blenders -Machine to Trainee ratio 1:2 7. Mixers -Machine to Trainee ratio 1:2 8. Refrigerator -Machine to Trainee ratio 1:30 9. Oven -Machine to Trainee ratio 1:30
82.	Sketching and Painting Artisan (Ceramics)	HCS/Q0802	1. Easels 2. Mahl sticks 3. Canvas 4. Brushes 5. Palettes	1. Easels - Machine to Trainee ratio 1:2 2. Mahl sticks - Machine to Trainee ratio 1:2 3. Canvas - Machine to Trainee ratio 1:6 4. Brushes - Machine to Trainee ratio 1:2

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				5. Palettes -Machine to Trainee ratio 1:2
83.	Floor Supervisor (Ceramics)	HCS/Q0101	1. Caliper 2. Felting Knives 3. Needles	1. Caliper - Machine to Trainee ratio 1:2 2. Felting Knives -Machine to Trainee ratio 1:2 3. Needles - Machine to Trainee ratio 1:2
84.	Merchandiser	HCS/Q9801	1. Microsoft Software 2. Marketing Softwares 3. Product Specification Chart 4. Computer/Laptop	1. Microsoft Software - Machine to Trainee ratio 1:30 2. Marketing Softwares - Machine to Trainee ratio 1:30 3. Product Specification Chart - Machine to Trainee ratio 1:5 4. Computer/Laptop - Machine to Trainee ratio 1:5
85.	String/Beading Artisan (Fashion Jewellery)	HCS/Q1101	1. Cup Burr 2. Reamers	1. Cup Burr - Machine to Trainee ratio 1:2

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			<ol style="list-style-type: none">3. Tweezers4. Cutter	<ol style="list-style-type: none">2. Reamers - Machine to Trainee ratio 1:23. Tweezers - Machine to Trainee ratio 1:24. Cutter - Machine to Trainee ratio 1:2
86.	Final Product Maker (Fashion Jewellery)	HCS/Q1102	<ol style="list-style-type: none">1. Faceting and Polishing Machine2. Tumbling Machine3. Transfer Jack4. Hot Plate	<ol style="list-style-type: none">1. Faceting and Polishing Machine - Machine to Trainee ratio 1:62. Tumbling Machine - Machine to Trainee ratio 1:63. Transfer Jack - Machine to Trainee ratio 1:64. Hot Plate - Machine to Trainee ratio 1:2
87.	Quality Checker (Fashion Jewellery)	HCS/Q1201	<ol style="list-style-type: none">1. Digital Vernier Caliper2. Lenses of different types	<ol style="list-style-type: none">1. Digital Vernier Caliper - Machine to Trainee ratio 1:1)2. Lenses of different types -Machine to Trainee

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				ratio 1:5
88.	Jute Product Stitching Operator	HCS/Q7403	<ol style="list-style-type: none">1. Screen Wooden Nails2. Frame3. Squeezes4. Tumbler/Gamla	<ol style="list-style-type: none">1. Screen Wooden Nails - Machine to Trainee ratio 1:22. Frame - Machine to Trainee ratio 1:23. Squeezes - Machine to Trainee ratio 1:24. Tumbler/Gamla - Machine to Trainee ratio 1:2
89.	Applique Artisan	HCS/Q7303	<ol style="list-style-type: none">1. Table lamps2. Frame/Loops3. Rotary Cutter4. Tweezers/Forceps	<ol style="list-style-type: none">1. Table lamps - Machine to Trainee ratio 1:102. Frame/Loops - Machine to Trainee ratio 1:53. Rotary Cutter- Machine to Trainee ratio 1:64. Tweezers/Forceps - Machine to Trainee ratio 1:5

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90.	Hand Block Printer	HCS/Q7201	<ol style="list-style-type: none">1. Printing Table2. Tray Trolley3. Blocks4. Mogari (Wooden Roller)5. Kotan (Wooden Mallet)	<ol style="list-style-type: none">1. Printing Table - Machine to Trainee ratio 1:52. Tray Trolley -Machine to Trainee ratio 1:103. Blocks - Machine to Trainee ratio 1:54. Mogari (Wooden Roller) - Machine to Trainee ratio 1:55. Kotan (Wooden Mallet) - Machine to Trainee ratio 1:5
91.	Jute Handloom Weaver	HCS/Q7402	<ol style="list-style-type: none">1. Handloom - Jute	<ol style="list-style-type: none">1. Handloom - Jute - Machine to Trainee ratio 1:30
92.	Jute Product Maker	HCS/Q7405	<ol style="list-style-type: none">1. Sewing Machine2. Wrench3. Hand Drill4. Jack Plane	<ol style="list-style-type: none">1. Sewing Machine - Machine to Trainee ratio 1:62. Wrench - Machine to Trainee ratio 1:2

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				<ol style="list-style-type: none">3. Hand Drill - Machine to Trainee ratio 1:24. Jack Plane -Machine to Trainee ratio 1:2
93.	Jute Screen Printer	HCS/Q7404	<ol style="list-style-type: none">1. Frame2. Squeezers3. Tumbler/Gamla4. Screen Wooden Nails	<ol style="list-style-type: none">1. Frame - Machine to Trainee ratio 1:62. Squeezers - Machine to Trainee ratio 1:23. Tumbler/Gamla - Machine to Trainee ratio 1:24. Screen Wooden Nails - Machine to Trainee ratio 1:2
94.	Jute Yarn Hank Dyer	HCS/Q7401	<ol style="list-style-type: none">1. Gas Burner2. Dyeing steel/metal container3. Dyeing utensils set	<ol style="list-style-type: none">1. Gas Burner - Machine to Trainee ratio 1:62. Dyeing steel/metal container - Machine to Trainee ratio 1:63. Dyeing utensils set - Machine to Trainee ratio

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				1:6
95.	Furnace Operator	HCS/Q2101	<ol style="list-style-type: none">1. Furnace2. Furnace Vacuum Pump3. Weight Scale4. Temp. Recorder5. Pyrometer	<ol style="list-style-type: none">1. Furnace - Machine to Trainee ratio 1:302. Furnace Vacuum Pump - Machine to Trainee ratio 1:303. Weight Scale -Machine to Trainee ratio 1:304. Temp. Recorder - Machine to Trainee ratio 1:105. Pyrometer -Machine to Trainee ratio 1:15
96.	Hand Rolled Agarbatti Maker	HCS/Q7901	<ol style="list-style-type: none">1. Agrbatting Making Machine2. Weighing Machine3. Mortar and Pestle4. Extruder5. Grinders	<ol style="list-style-type: none">1. Agrbatting Making Machine - Machine to Trainee ratio 1:302. Weighing Machine - Machine to Trainee ratio 1:303. Mortar and Pestle - Machine to Trainee ratio

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				1:2 4. Extruder - Machine to Trainee ratio 1:30 5. Grinders - Machine to Trainee ratio 1:15
97.	Automatic Stick Making M/C Operator	HCS/Q7803	1. Hacksaw 2. Bamboo Splitting Machine 3. Cutting Blades 4. Stick Making Machine 5. Weighing Machine	1. Hacksaw - Machine to Trainee ratio 1:15 2. Bamboo Splitting Machine - Machine to Trainee ratio 1:30 3. Cutting Blades - Machine to Trainee ratio 1:15 4. Stick Making Machine -- Machine to Trainee ratio 1:30 5. Weighing Machine - Machine to Trainee ratio 1:15

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98.	Decorative Painter - Glassware	HCS/Q2502	<ol style="list-style-type: none">1. Glass Marking Machine2. Scraper3. Painting brushes set4. Firing Oven	<ol style="list-style-type: none">1. Glass Marking Machine -Machine to Trainee ratio 1:302. Scraper - Machine to Trainee ratio 1:153. Painting brushes set - Machine to Trainee ratio 1:154. Firing Oven - Machine to Trainee ratio 1:30
99.	Chiseler - Stonecraft	HCS/Q1401	<ol style="list-style-type: none">1. Hammer set2. Chisels set3. Sharpening Stone4. Drill machine	<ol style="list-style-type: none">1. Hammer set -Machine to Trainee ratio 1:52. Chisels set -Machine to Trainee ratio 1:53. Sharpening Stone - Machine to Trainee ratio 1:54. Drill machine -Machine to Trainee ratio 1:5
100.	Stone Cutter (Cutting Machine Operator)	HCS/Q1402	<ol style="list-style-type: none">1. Chisel Flat Cold2. Hammer Ball Pein	<ol style="list-style-type: none">1. Chisel Flat Cold - Machine to Trainee ratio



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			3. Stone Cutting Machine)	<p>1:10</p> <p>2. Hammer Ball Pein - Machine to Trainee ratio 1:10</p> <p>3. Stone Cutting Machine - Machine to Trainee ratio 1:15</p>
101.	Stone Grinder (Grinding Machine Operator)	HCS/Q1403	<p>1. Stone Grinding machine</p> <p>2. Grinding Wheels</p>	<p>1. Stone Grinding machine - Machine to Trainee ratio 1:30</p> <p>2. Grinding Wheels - Machine to Trainee ratio 1:15</p>
102.	Drill Machine Operator - Stonecraft	HCS/Q1503	<p>1. Drilling Machine</p> <p>2. Drill Angle Gauge</p> <p>3. Direct Reading Vernier Caliper</p> <p>4. Slot Drill</p> <p>5. Jack Hammer</p> <p>6. Hydraulic Jack</p>	<p>1. Drilling Machine - Machine to Trainee ratio 1:30</p> <p>2. Drill Angle Gauge - Machine to Trainee ratio 1:30</p> <p>3. Direct Reading Vernier Caliper -Machine to</p>



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				<p>Trainee ratio 1:15</p> <p>4. Slot Drill -Machine to Trainee ratio 1:15)</p> <p>5. Jack Hammer -Machine to Trainee ratio 1:30</p> <p>6. Hydraulic Jack - Machine to Trainee ratio 1:30</p>
103.	Quality Checker - Stonecraft	HCS/Q1601	<p>1. Weighing machine</p> <p>2. Calipers</p>	<p>1. Weighing machine - Machine to Trainee ratio 1:30</p> <p>2. Calipers -Machine to Trainee ratio 1:15</p>
104.	Turner - Stonecraft	HCS/Q1404	<p>1. Hammer</p> <p>2. Calipers</p> <p>3. Chisel</p> <p>4. Bench vise</p> <p>5. Micrometer</p> <p>6. Angle Gauge</p> <p>7. Die handle</p> <p>8. Screw Driver</p>	<p>1. Hammer -Machine to Trainee ratio 1:5</p> <p>2. Calipers -Machine to Trainee ratio 1:10</p> <p>3. Chisel -Machine to Trainee ratio 1:5</p> <p>4. Bench vise -Machine to Trainee ratio 1:5</p> <p>5. Micrometer -Machine to Trainee ratio 1:15</p>

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				<ol style="list-style-type: none">6. Angle Gauge -Machine to Trainee ratio 1:157. Die handle -Machine to Trainee ratio 1:158. Screw Driver -Machine to Trainee ratio 1:5
105.	Design Marker - Stonecraft	HCS/Q1501	<ol style="list-style-type: none">1. Planishing Hammers2. Gravers3. Stretcher Shrinker	<ol style="list-style-type: none">1. Planishing Hammers - Machine to Trainee ratio 1:52. Gravers -Machine to Trainee ratio 1:53. Stretcher Shrinker - Machine to Trainee ratio 1:5
106.	Seasoning and Chemical Treatment Assistant (Woodware)	HCS/Q6801	<ol style="list-style-type: none">1. Moisture Meter2. Wooden Articles3. Hard Hats4. Vessels	<ol style="list-style-type: none">1. Moisture Meter - Machine to Trainee ratio 1:302. Wooden Articles - Machine to Trainee ratio 1:53. Hard Hats -Machine to Trainee ratio 1:5

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				4. Vessels -Machine to Trainee ratio 1:30
107.	Assembly Machine Operator (Woodware)	HCS/Q6902	<ol style="list-style-type: none">1. Table Saw2. Pliers3. Chisels4. Hand Saw	<ol style="list-style-type: none">1. Table Saw -Machine to Trainee ratio 1:52. Pliers -Machine to Trainee ratio 1:53. Chisels -Machine to Trainee ratio 1:54. Hand Saw -Machine to Trainee ratio 1:5
108.	Finisher (Woodware)	HCS/Q7101	<ol style="list-style-type: none">1. Chisel set2. Power Sander3. Wood grinder4. Spray gun for wooden	<ol style="list-style-type: none">1. Chisel set -Machine to Trainee ratio 1:302. Power Sander - Machine to Trainee ratio 1:153. Wood grinder -Machine to Trainee ratio 1:154. Spray gun for wooden - Machine to Trainee ratio 1:30

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109.	Lacquerer (Woodware)	HCS/Q7102	<ol style="list-style-type: none">1. Spray Pressure Gun2. Compressor3. Brushes set	<ol style="list-style-type: none">1. Spray Pressure Gun - Machine to Trainee ratio 1:152. Compressor -Machine to Trainee ratio 1:303. Brushes set -Machine to Trainee ratio 1:30
110.	Designer (Woodware Products)	HCS/Q6601	<ol style="list-style-type: none">1. Drill Machine2. Metal Tape Measure3. Hack Saw4. Centre Punch5. Vernier Gauge	<ol style="list-style-type: none">1. Drill Machine - Machine to Trainee ratio 1:102. Metal Tape Measure - Machine to Trainee ratio 1:103. Hack Saw -Machine to Trainee ratio 1:104. Centre Punch -Machine to Trainee ratio 1:105. Vernier Gauge -Machine to Trainee ratio 1:10
111.	Embossing Artisan (Metalware)	HCS/Q2901	<ol style="list-style-type: none">1. Gas Burner2. File and Buffer3. Chisels4. Hammer set	<ol style="list-style-type: none">1. Gas Burner -Machine to Trainee ratio 1:102. File and Buffer - Machine to Trainee ratio 1:5

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				<ol style="list-style-type: none">3. Chisels - Machine to Trainee ratio 1:54. Hammer set - Machine to Trainee ratio 1:5
112.	Engraving Artisan (Metal Handicrafts)	HCS/Q2902	<ol style="list-style-type: none">1. Surface Grinder2. Buffing Machine3. Chisels set4. Hammer set	<ol style="list-style-type: none">1. Surface Grinder - Machine to Trainee ratio 1:152. Buffing Machine - Machine to Trainee ratio 1:153. Chisels set -Machine to Trainee ratio 1:54. Hammer set -Machine to Trainee ratio 1:5
113.	Etching Artisan (Metalware)	HCS/Q2909	<ol style="list-style-type: none">1. Hand Graver2. Surface Grinder3. Chisel set4. Hammer set5. Magnifier	<ol style="list-style-type: none">1. Hand Graver - Machine to Trainee ratio 1:52. Surface Grinder - Machine to Trainee ratio 1:103. Chisel set -Machine to Trainee ratio 1:54. Hammer set -Machine to Trainee ratio 1:5

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				5. Magnifier - Machine to Trainee ratio 1:15
114.	Inlay Artisan (Metalware)	HCS/Q2903	<ol style="list-style-type: none">1. Cutting Machine2. Hammer set3. Chisel set4. Hand Drill5. Buffing Machine	<ol style="list-style-type: none">1. Cutting Machine - Machine to Trainee ratio 1:152. Hammer set -Machine to Trainee ratio 1:53. Chisel set -Machine to Trainee ratio 1:54. Hand Drill - Machine to Trainee ratio 1:155. Buffing Machine - Machine to Trainee ratio 1:15
115.	Painter (Metal Handicrafts)	HCS/Q3101	<ol style="list-style-type: none">1. Spry pressure gun2. Brush set for paint3. Metal grinder/buffing machine	<ol style="list-style-type: none">1. Spry pressure gun - Machine to Trainee ratio 1:152. Brush set for paint - Machine to Trainee ratio 1:53. Metal grinder/buffing machine - Machine to Trainee ratio 1:15

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116.	Polisher (Metalware)	HCS/Q3002	1. Metal buffing machine	1. Metal buffing machine - Machine to Trainee ratio 1:2
117.	Lacquerer (Paper Mache)	HCS/Q4505	1. Compressure 2. Spray Gun Pressure 3. Brushes set	1. Compressure -Machine to Trainee ratio 1:30 2. Spray Gun Pressure - Machine to Trainee ratio 1:10 3. Brushes set -Machine to Trainee ratio 1:5
118.	Paper Mache Art Designer	HCS/Q4506	1. Mixing bowl 2. Hand Mixer 3. Glue Gun	1. Mixing bowl -Machine to Trainee ratio 1:5 2. Hand Mixer -Machine to Trainee ratio 1:5 3. Glue Gun -Machine to Trainee ratio 1:10
119.	Paper Mache Craft Specialist	HCS/Q4501	1. Hand Mixer 2. Mixing bowl 3. Glue Gun	1. Hand Mixer - Machine to Trainee ratio 1:5 2. Mixing bowl - Machine to Trainee ratio 1:5 3. Glue Gun -Machine to

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				Trainee ratio 1:5
120.	Clipper and Embosser	HCS/Q5404	IR under process	
121.	Designer and Shade Writer	HCS/Q5204	IR under process	
122.	Dyer (Rangsaaz)	HCS/Q5101	IR under process	
123.	Tufted Weaving Supervisor	HCS/Q5411	IR under process	
124.	Tufting Gun Master	HCS/Q5409	IR under process	
125.	Material Preparation Worker	HCS/Q0702	IR under process	
126.	Cutting and Threading Operator	HCS/Q2906	IR under process	
127.	Abrasion & Grinding Machine Operator	HCS/Q2303	IR under process	
128.	Decorative Cutter	HCS/Q2501	IR under process	
129.	Silver Coating Technician	HCS/Q2401	IR under process	
130.	Jute Selector cum Assorter	TSC/Q0107	1. Jute Spreader Machine (Desirable) with other equipments 2. Jute Softener Machine	Machine to Trainee ratio 1:30

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			(Desirable) with other equipments	
131.	Jute Carding Operator	TSC/Q0108	1. Jute Breaker carding Machine with other equipments 2. Jute Finisher Carding Machine with other equipments	Machine to Trainee ratio 1:30
132.	Jute Spinning Sardar (Jobber) cum Jr. Supervisor	TSC/Q0204	Jute Spinning Frame Machines	Machine to Trainee ratio 1:30
133.	Jute Weft Winding Operator	TSC/Q0304	Any of Jute weft winding machine and/or any of Cop winding Machine in working condition	Machine to Trainee ratio 1:30
134.	Jute Beaming Operator	TSC/Q2104	Beaming and Sizing Machine	Machine to Trainee ratio 1:30
135.	Automatic Shuttle Loom Operator	TSC/Q2201	Any shuttle loom fitted with weavers beam in working condition.	Machine to Trainee ratio 1:10
136.	Shuttle-Less Loom Weaver – Projectile	TSC/Q2202	Projectile Shuttleless loom fitted with weavers beam in working condition.	Machine to Trainee ratio 1:10
137.	Vanya Silk Reeling & Spinning Manufacturer	TC SILK 01	1. Reeling cum twisting machine. 2. Buniyaad reeling machine.	Machine to Trainee ratio 1:10



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			<ol style="list-style-type: none"> 3. Wet reeling machine 4. Motorised cum pedal operated spinning machine(Ring /flyer type) 5. Cocoon cooking technology/equipments (Open Pan/Two Pan/Pressurized) 6. Volume based cocoon sorting machine 7. Re-reeling machine 8. Skeinning & book making Machine. 9. Epprouvette 	
138.	Mulberry Silk Reeling Manufacturer	TC SILK 02	<ol style="list-style-type: none"> 1. Cocoon Sorting Machine and assessment gadgets. 2. Hot Air Drying/Steam Stifling Machine 3. Storage Racks 4. Cocoon cooking equipments – Open Pan/Three Pan/Pressurised batch cooking/Conveyor cooking machine 5. Reeling Machines – Charkha, Cottage basin, Multi end, Semi-Automatic 6. Reel permeation chamber 	Machine to Trainee ratio 1:10

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			<ol style="list-style-type: none">7. Close type re-reeling machine.8. Skeining & book making M/c9. Epprouvette	
139.	Silk Weaving Manufacturer	TC SILK 03	<ol style="list-style-type: none">1. Soaking unit with all its accessories2. Winding, Doubling and Twisting unit with all its accessories3. Warping Machine with all its accessories4. Pirn winding unit with all its accessories5. Handloom / Powerloom / Shuttle-less looms with all its accessories	Machine to Trainee ratio 1:30

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140.	Silk Wet Processing Manufacturer	TC SILK 04	<ol style="list-style-type: none">1. Water bath2. Beaker/Vat/Tub Dyeing Machine3. Lab. Winch / Padding Mangle with all accessories.4. Water Softening plant5. Printing Table with Blocks and Screens.6. Steam Ager7. Hydro extractor8. Colour Matching Cabinet9. Epprouvette10. Boiler for steam / hot waters	Machine to Trainee ratio 1:10
141.	Wool Cleaning and Scouring Supervisor	TC WOOL 01	<ol style="list-style-type: none">5. Wool opening & cleaning Machine6. Wool scoring Machine7. ETP Treatment Plant (Desirable)	Machine to Trainee ratio 1:30

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142.	Wool Fiber Scouring Machine Operator	TC WOOL 02	<ol style="list-style-type: none">4. Wool opening & cleaning Machine5. Wool scoring Machine6. ETP Treatment Plant (Desirable)	Machine to Trainee ratio 1:30
143.	Wool Dyeing Supervisor	TC WOOL 03	<ol style="list-style-type: none">1. Dyeing Machine (HTHP / Loose Stock Dyeing / Top Dyeing / Winch Dyeing / Jigger Dyeing / Soft Flow Dyeing / Yarn Dyeing / Hank Dyeing)2. Effluent Treatment Plant (Desirable)	Machine to Trainee ratio 1:30

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144.	Wool Fiber Dyeing Machine Operator	TC WOOL 04	<ol style="list-style-type: none">1. Dyeing Machine (HTHP / Loose Stock Dyeing / Top Dyeing / Hank Dyeing / Yarn Dyeing / Fiber Dyeing)2. Effluent Treatment Plant (Desirable)	Machine to Trainee ratio 1:30
145.	Surgical Mask Machine Operator	TC TT 01	Programmable Logic Controller (PLC) based Surgical Mask Making Machine with complete line of operation to make the end product in working condition (Fully Automatic).	Machine to Trainee ratio 1:30
146.	Sanitary Napkin Machine Operator	TC TT 02	Sanitary napkin making machine with complete line of operation in working condition- Pulp pulverizer unit (Wood pulp pulverizer), super absorbent polymer feeding unit, Engraving cum top sheet feeding unit, Bottom film feeding unit, Back Release paper unit & Cutting unit, Wings release paper unit,	Machine to Trainee ratio 1:30

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			packing cum sealing unit	
147.	Needle Punch Nonwoven Machine Operator	TC TT 03	Needle Punch Nonwoven Machine with complete line of operation in working condition- opening and mixing unit, carding unit, lapping unit, needle punching unit and calender unit.	Machine to Trainee ratio 1:30
148.	Thermal Bonded Nonwoven Machine Operator	TC TT 04	Thermal Bonded Nonwoven Machine with complete line of operation in working condition- opening and mixing unit, carding unit, lapping unit, thermal bonding unit (Hot calendaring/through-Air thermal bonding/ultrasonic bonding/Radiant-heat bonding unit).	Machine to Trainee ratio 1:30

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149.	Chemical Bonded Nonwoven Machine Operator	TC TT 05	<ul style="list-style-type: none">• Chemical Bonded Nonwoven Machine with complete line of operation in working condition- opening and mixing unit, carding unit, lapping unit, chemical bonding unit (saturation bonding process/spray Technique/Foam Technique/Print Technique of Chemical Bonding/Powder bonding)• Drying of Chemical Bonded Nonwovens Machines (drum drying/belt drying/stenter drying/Infrared drying)	Machine to Trainee ratio 1:30
150.	Textile Coating Machine Operator	TC TT 06	<ul style="list-style-type: none">• Textile coating machine in working condition (Dip coating, Calendering, Direct	Machine to Trainee ratio 1:30

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			<p>Roll Coating, Knife Coating, Reverse Roll Coating, Rotary Screen Coating, Transfer Coating, Extrusion Coating, Gravure or Engraved roll coating, Spray Coating, Air-knife coating, Metering rod coating, Foamed and Crushed Foam Coating, Dry Powder Coating, Curtain Coating, Kiss Roll Coating).</p> <ul style="list-style-type: none">• Drying of coated fabric machines• Curing unit	
151.	Hand Held Kapas Plucker Machine Operator	TC FIBER 01	Hand Held Kapas Plucker Machine with its accessories	Machine to Trainee ratio 1:5