



**SYLLABUS FOR THE TRADE OF
CUTTING & SEWING**

Under
CRAFTSMEN TRAINING SCHEME

2000 (REVISED)

**CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE
GOVT. OF INDIA, MINISTRY OF LABOUR, DGE&T
DIRECTORATE GENERAL OF EMPLOYMENT & TRAINING
EN – BLOCK, SECTOR – V, SALT LAKE CITY,
CALCUTTA – 700 091.**

GENERAL INFORMATION:

1. Name of the Trade : Cutting and Sewing
2. Entry Qualification : Passed Class-VIII
3. Duration of Training: 1 Year under CTS
4. NCO Code Number : 076.10

OBJECTIVE OF THE COURSE:

The objective of the course is to impart necessary competencies (with the focus on technical competencies like skill and knowledge) so that they become employable in the small scale tailoring industry and are able to set up an own tailor's shop.

The main focus of the training is on stitching operations and basic pattern making.

Since the industrial production will be of increasing importance in the domestic market the tailor's shops will be in a more competitive situation. Therefore, it is very important that the training of Cutting & Sewing focuses more on quality consciousness in order to improve the sewing performance in the tailor's shops.

At the end of the training the trainees will be able to –

- Convert given pattern designs into a pattern for individual measurement and to stitch a dress accordingly to an agreed quality standard.
- Organise, plan and evaluate their work independently (methodical competency) and to estimate the material required.
- Apply basic techniques for pattern manipulation.

The course content is to be covered in less than 52 weeks a year since some weeks will be used for enrolment procedures, leave of the instructor, holidays, examination and tests, industrial visits etc.

Course break-up:

- | | | |
|----|--|---------------|
| a) | Practical instruction | 28 hours/week |
| b) | Theoretical instruction | 10 hours/week |
| c) | Extra curricular activities including physical training. | 4 hours/week |

Industrial Visit :

Industrial cum study tour at least two different types of garment industries having modern machineries.

Skill Areas

Measuring

- body
- material
- components

Making Patterns

- drafting, marking, cutting for individual measurement along with a given pattern draft as flat pattern
- introduction into block pattern

Cutting components with hand cutting tools

Arranging layouts

- on milton cloth
- plain fabrics
- one-way fabrics like napped and checked fabrics

Taking trial of garments

Pressing by hand with electric iron

- pleats
- sleeves with sleeve board
- gathers
- yoke

Folding of garments

Operating and maintaining sewing machines

- treadle sewing machine
- motorized sewing machine
- overlock machine (three, four or five threads)

Stitching

- Stitching by hand:

functional

ease stitching, basting, tacking, padding stitch, running stitch, back stitch, pick stitch, overcasting, hem stitches, slip stitch, whip stitch

decorative

stem stitch, blanket stitch, closed blanket stitch, buttonhole stitch, fishbone stitch, straight feather stitch, double feather stitch, chain stitch, lazy daisy stitch, herringbone stitch, cross stitch, satin stitch, split stitch, decorative hem stitch

- Stitching by machine (straight, curved, cornered)
- Finishing seams by hand and machine (pinked, overcasted, overlocked, bias bound, French seam ...)
- Fixing fasteners (buttons, hooks, eyes, press studs ...)
- Making buttonholes (one-bar-one-fan button hole, bound buttonhole...)
- Shaping a garment by:
 - Darts (plain dart, French dart, contour dart ..)
 - Pleats (knife pleat, box pleat, inverted pleat ..)
 - Tucks (plain tuck, blind tuck, pin tuck ...)
 - Gathering
 - Smocking
 - Inserting elastic
- Stitching components:
 - Collars (open collar, stand collar, shirt collar, Peter-Pan collar ...)
 - Sleeves (set-in sleeve, kimono sleeve ..)
 - Pockets (patch pockets, inseam pockets, bound pocket ..)
 - Cuffs
- Finishing edges (facing, banding, binding, piping, hemming)
- Making corners (overlapping corners, mitred corners)
- Making openings
 - Placket (faced placket, one-piece placket, two-piece placket, continuous placket, zip placket ..)
 - Fly (extended fly, self-piece fly with buttons and zip..)
 - Slit
- Attaching collars, sleeves (set-in-sleeve method, shirt-sleeve method ..), yokes, cuffs, waistbands
- Preparing waistline (with casing, waist band, elastic, belt, belt carriers ..)
- Finishing neckline

- Fusing
- Lining
- Mending (patching and darning)

List of Dresses:

Petticoats (4 and 6 panels)
 Pleated skirt
 Divided skirt

Pyjama, Aligar
 Pyjama Chudidar
 Pyjama Pant cut
 Shorts (belted)
 Shorts (one piece)
 Slacks
 Jeans

Nehru Kurta
 Kalidar Kurta
 Salwar (belted)
 Children's Top
 Ladies shirt
 Plain blouse
 Cholicut Blouse
 Gent's shirt

Plain frock
 Design frock
 Umbrella cut frock
 House coat
 Nighty

Baby set
 Bodice and Skirt Combination
 Night suit
 Combination suit

While it is compulsory to cover the skills during the training the dresses might be Substituted by other garments as long as they are suitable to train the respective Skills.

Note: All garments should be stitched in full size only.

Theory

Tools and Equipment

- Needles and threads
- Measuring and drafting tools
- Cutting tools
- Pressing Equipment

Machinery

Parts, function and maintenance of:

- Treadle sewing machine
- Motorized sewing machine
- Button hole machine
- 3-5-thread overlock machine
- Machine attachments
- Sewing defects and remedies (trouble shooting)

Sewing Techniques

Features and application of different types of:

- Hand stitches
- Machine stitches (stitch formation and balance)
- Embroidery stitches
- Clipping, notching
- Mending (darning and patching)
- Seams and seam finishing
- Hemming
- Shaping techniques (pleats, tucks, darts, gathers etc.)
- Corners

Methods of Finishing

Features and application of different types of:

- Waistline finishing
- Neckline finishing
- Placket finishing

Components

Features of different types of:

- Sleeves
- Pockets
- Cuffs

Fibers and Fabrics

- Sources, methods of identification, texture, weave, shrinking, stain removal
- Facing, interfacing, lining and interlining material

Button holes and Fasteners

Trimming materials and accessories

Patterns

Direct drafting method (flat pattern)

Block patterns

Layouts

Anatomy of Human Figure

- Eight-head theory
- Variations in figures
- Growth according to age group
- Measuring techniques

Workshop Calculation

- Calculation of material
- Calculation of costs

Colour

- Colour Scheme
- Effects / characteristics of colours

Evolution and Function of Dresses

Quality Criteria

Safety Precautions

**List of Tools and Equipment for the Trade of Cutting & Sewing under Craftsmen
Training Scheme for a batch of 16 trainees.**

Sl. No.	Name and Description of Articles	Qty
Tools and Machineries		
1	Treadle machine, Lock Stitch, drop feed flat bed treadle	17 Nos.
2	Over locking machine twin needle,(motorised) 3-5 thread	2 Nos.
3	Bar-tack machine	1 No.
4	Button hole machine	1 No.
5	Treadle Machine (Motorised) 1/8 HP	2 Nos.
6	Fashion Maker Machine	1 No.
7	Machine attachment-zipper foot, tucker foot, hem folder, zig-zag foot	2 each
8	Scissors 25 cm	17 Nos.
9	Scissors left hand 25 cm	2 Nos.
10	Machine scissors, trimming edge 7"	17 Nos.
11	Pinking scissors, edge finish	4 Nos.
12	Marking wheel (tracing wheel)	17 Nos.
13	Measuring Tape Metric & English 150 cm(inches and cm)	17 Nos.
14	Tailors square metric	17 Nos.
15	Leg shaper for trouser	17 Nos.
16	French Curve(set) No. 17	17 Nos.
17	Diagram Square ¼", 1/5" Plastic	17 Nos.
18	Finger thimbles – steel	17 Nos.
19	Pattern notcher	4 Nos.
20	Dress form dummies: a) Ladies 8,10(half), 12(full), b) Gent's 40,42(full) c) Children no. 4(full)	1 No. each
21	Pattern punch	2 Nos.
22	Tailors wooden graduated L-Square	17 Nos.
23	Round cutter, electrically operated	1 No.
24	Straight knife cutter, electrically operated	1 No.
25	Tape plastic	2 Nos.
26	Tailors chalk	2 Nos.
27	Scam ripper	17 Nos.
28	Milton Cloth double width x 2 meters	8 Nos.
29	Coat brush – nylon hair	2 Nos.
Pressing Equipment		
1	Electric Steam Iron	4 Nos.
2	Pressing Pad	4 Nos.
3	Pressing Table	4 Nos.
4	Duplex Board	2 Nos.
5	Rubber mat for pressing table size(90 x 60 cm)	4 Nos.
6	Water Tub Big 60 cm dia.for sinking	1 No.
7	Water pot for Pressing Table	1 No.
8	Blanket for pressing Table (5 x 8 ft.)	4 Nos.
9	Wall clock	1 No.
10	Sponge nylon for putting water	16 Nos.
11	Dump cloth 50 cm piece (white)	2 Nos.

Sl. No.	Name and Description of Articles	Qty
	FURNITURE	
1	Hangers for Dress	16 Nos.
2	Stand for hanging dress	4 Nos.
3	Instructors table steel with sunmica top (60 x 120) with lockers	1 No.
4	Arm Chair for Instructor	1 No.
5	Armless chair for staff	4 Nos.
6	Adjustable Moving Stool with cushion-18" height size for trainees	16 Nos.
7	Table for Drawing Class/theory class for trainees	16 Nos.
8	Magnetic white board with marker pen and duster (120 x 120 cm)	2 Nos.
9	Almirah Steel(195 cms x 90 cms x 60 cms) with 5 adjustable shelves	2 Nos.
10	Steel locker Overall size(195 cms x 90 cm x 48 cm) having 6 compartments with provision of separate lock	3 Nos.
11	Display Board Glass cover(for hanging finished dress)	2 Nos.
12	Pattern hanging hooks	6 doz.
13	Drafting Table with corrugated board(150' cm x 90 cm x 90 cm)	8 nos.
14	Pattern hanging angles steel	6 doz.
15	Trial Room – size 4' x 4' with 3 mirrors , size 150 cm x 60 cm each with arrangement for hanging dress	1 No.
16	Waste Paper basket, plastic/steel	2 Nos.

Allied Trade :-

- Elementary theoretical knowledge related to embroidery.
- Practical – simple design.

Note :- The course content for the subject of social studies being common for all trades are not incorporated in this syllabus.