

SYLLABUS OF SEMESTER SYSTEM  
FOR THE TRADE OF

SURFACE ORNAMENTATION TECHNIQUES  
(EMBROIDERY)

Under

Craftsmen Training Scheme (CTS)  
(One year/Two Semesters)

Redesigned in  
2014

By  
Government of India  
Ministry of Labour & Employment (DGE&T)

## GENERAL INFORMATION

1. Name of the Trade : Surface Ornamentation Techniques  
(Embroidery)
2. N.C.O. Code No. :
3. Duration of Craftsmen Training : 2 Semesters (1 Years )
4. Entry Qualification : Passed 10<sup>th</sup> Class
5. Unit strength : 16
6. Space norms : 64 sq m (4 Sq.m/trainee)
7. Power norms : 5K.W.
8. Instructors Qualification : NTC/NAC Embroidery and Needle Work trade with  
three year experience.  
OR  
Diploma in Fashion Technology/Costume Design and  
Dress Making with two years Experience  
OR  
Degree in Fashion Technology/Costume Design and Dress  
Making with one year Experience
9. Desirable qualification: Preference will be given to a candidate  
With Craft Instructors Training certificate (CITS) in  
Embroidery and Needle

Note: Out of two instructors required for the unit 1+1, one must have Degree/Diploma & other must have NTC/NAC qualification

Job Opportunities  
for  
SURFACE ORNAMENTATION TECHNIQUES (EMBROIDERY)

1. Design Coordinator to Fashion Designer
2. Motifs / patterns and Conceptualization developer
3. Aari (crewel embroidery) Embroider
4. Zig -zag (satin embroidery) Machine operator
5. Hand Embroider
6. Entrepreneur
7. Tracing experts

Proposed Syllabus of **SURFACE ORNAMENTATION TECHNIQUES**  
(**EMBROIDERY**)

CTS-Semester-I

<b>Week No.</b>	<b>Practical</b>	<b>Theory</b>
1	<ul style="list-style-type: none"> <li>• Safety Precautions to be followed in the Laboratory</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction and Familiarization with the Institute.</li> <li>• Introduction To the Trade</li> <li>• Job Prospects and Objectives of the course</li> <li>• Safety Precautions to be followed in the lab</li> </ul>
2 - 3	<ul style="list-style-type: none"> <li>• Identification &amp; Handling of trade related tools</li> <li>• Basic Hand Stiches               <ul style="list-style-type: none"> <li>• Temporary Stiches                   <ul style="list-style-type: none"> <li>○ Basting Even</li> <li>○ Basting Uneven</li> <li>○ Diagonal</li> <li>○ Slip Basting</li> </ul> </li> <li>• Permanent Stiches                   <ul style="list-style-type: none"> <li>○ Running Stiches</li> <li>○ Hemming</li> <li>○ Slip Stitch</li> <li>○ Run and back stitch</li> <li>○ Over casting</li> <li>○ Whip stitch</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Overview of Embroidery</li> <li>• Knowledge of trade related Tools</li> </ul>
4	Practice of Various Methods of Transferring and Tracing Design Safety Precautions	Tracing Methods and Precautions used during Tracing Technical Terms Related To <ul style="list-style-type: none"> <li>• Design</li> <li>• Embroidery</li> </ul>
5 - 8	Practice of Starting and Ending off of embroidery stitches Sample Development of Basic Embroidery stitches <ul style="list-style-type: none"> <li>• Flat Stitch</li> <li>• Loop Stitch</li> <li>• Crossed Stiches</li> <li>• Knotted Stiches</li> </ul>	Basic Embroidery stitches(contemporary stitches) <ul style="list-style-type: none"> <li>• Flat Stitch</li> <li>• Loop Stitch</li> <li>• Crossed Stiches</li> <li>• Knotted Stiches</li> </ul>
9 -10	Practice Of Free Hand Drawing Design <ul style="list-style-type: none"> <li>• Scribble</li> <li>• Geometrical</li> <li>• Cut paper</li> <li>• Signature</li> </ul>	Elements of Design Sources of Design Inspiration
11-12	Practical Exercise on <ul style="list-style-type: none"> <li>• Types of color</li> </ul>	<ul style="list-style-type: none"> <li>• Color Theory</li> <li>• Color wheel</li> </ul>

	<ul style="list-style-type: none"> <li>• Color Wheel</li> <li>• Color Schemes</li> </ul>	<ul style="list-style-type: none"> <li>• Color Schemes</li> <li>• Psychological Aspects of color</li> <li>• Combining Color</li> </ul>
13-14	<p>Practice of Enlargement &amp; Reduction of Designs Practice of placing designs developing Border, Spray, Corner, Center, Link Develop designs for the garment components</p> <ul style="list-style-type: none"> <li>• Sleeves</li> <li>• Yokes</li> <li>• Cuffs</li> <li>• Neck</li> </ul> <p>(at least 10 designs using component template)</p>	<p>Enlargement &amp; Reduction of Designs Placement of Designs</p>
15-19	<p>Frame fitting and its precautions Practice of running Zig Zag Machine Sample making of-</p> <ul style="list-style-type: none"> <li>• Running Stitch</li> <li>• Running Shade</li> <li>• Satin Stitch</li> <li>• Cording Stitch</li> <li>• Back Stitch</li> </ul>	<p>Introduction to various embroidery machines Introduction To Zig-Zag Machine</p> <ul style="list-style-type: none"> <li>• Parts &amp; their Functions</li> <li>• Defects and Remedies</li> <li>• Threading a Machine</li> <li>• Winding a Bobbin</li> </ul> <p>How to set the machine for embroidery</p>
20-22	<p>Frame Fitting for Hand Aari Practicing of locking, starting and finishing of stitch Practice of Straight and Curve lines. Practice of fixing different sequences with aari</p>	<p>Introduction To Hand Ari</p> <ul style="list-style-type: none"> <li>• Utilities and Scope</li> <li>• Material &amp; Stitches used in hand Aari.</li> </ul>
23	<p>Project –Develop an article or dress showing your creativity. Items may be the following or of your choice - Cushion Covers, Dining Table Mats, Bags, Table runners, Coasters, Panels for Sarees, Borders, Necklines etc.</p>	
24-25	INDUSTRIAL TRAINING	
26	Revision And Examination	

## Proposed Syllabus of **SURFACE ORNAMENTATION TECHNIQUES**

### (EMBROIDERY)

CTS-Semester-II

<b>Week No.</b>	<b>Practical</b>	<b>Theory</b>
1	Revision of work done in semester I	Revision of work done in semester I
2-5	Practice & sample making of the following Typical Embroideries - <ul style="list-style-type: none"> <li>• Drawn And Pulled Thread Work</li> <li>• Assisi Work</li> <li>• Cut Work</li> <li>• Swiss Work</li> <li>• Shadow Work</li> </ul>	Introduction To Typical Embroidery <ul style="list-style-type: none"> <li>• Drawn And Pulled Thread Work</li> <li>• Assisi Work</li> <li>• Cut Work</li> <li>• Swiss Work</li> <li>• Shadow Work</li> </ul>
6-9	Practice & Sample making of the following traditional embroidery – <ul style="list-style-type: none"> <li>• Phulkari</li> <li>• Kantha</li> <li>• Kasuti</li> <li>• Chikankari</li> <li>• Kashida</li> <li>• Chamba</li> <li>• Kutch</li> </ul>	Introduction To Traditional Embroidery <ul style="list-style-type: none"> <li>• Phulkari</li> <li>• Kantha</li> <li>• Kasuti</li> <li>• Chikankari</li> <li>• Kashida</li> <li>• Chamba</li> <li>• Kutch</li> </ul>
10-11	Practice of making samples of Fancy Nets – <ul style="list-style-type: none"> <li>• Cane weaving - Single &amp; double</li> <li>• Fancy net with Lazy Daisy</li> <li>• Fancy net with Cross Stitch</li> <li>• Fancy net with Circles</li> <li>• Button hole net</li> </ul>	Fancy Net work <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Types</li> <li>• Use</li> </ul>
12-13	Practice & sample making of the following – <ul style="list-style-type: none"> <li>• Simple Appliqué’</li> <li>• Cut Appliqué’</li> <li>• Felt Appliqué</li> </ul>	Appliqué work <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Type</li> <li>• Difference between Appliqué &amp; patch</li> </ul>
14-15	Placement Of Design On: <ul style="list-style-type: none"> <li>• Frock</li> <li>• Ladies Kurta</li> <li>• Gents Kurta</li> <li>• Topper</li> </ul>	Marker Planning For with the help of available patterns <ul style="list-style-type: none"> <li>• Frock</li> <li>• Ladies Kurta</li> <li>• Gents Kurta</li> <li>• Topper</li> </ul> Estimation & Costing of Garment
16-18	Practice and design variation in aari for Basic Stitches	Accessories used in Embroidery Laundry of Embroidered articles Stains – Classification & Removal

	Mirror work Stone work Metallic Thread Embroidery Beads & Sequins	
19-21	<ul style="list-style-type: none"> <li>• Combination of stitches and work styles with following stitches             <ul style="list-style-type: none"> <li>✓ Appliqué and satin</li> <li>✓ Cording and stem</li> <li>✓ Stem and satin</li> <li>✓ Running and satin</li> <li>✓ Shade and Satin</li> </ul> </li> </ul> <p>About 4 samples shall be prepared, covering practice of different combination of stitches and work style</p>	Quality Control <ul style="list-style-type: none"> <li>• Definition, need &amp; Planning</li> <li>• Types of Inspection</li> <li>• Stages of Inspection</li> </ul>
22-23	Project work: Preparation of following garments using above said stitches(any two) <ul style="list-style-type: none"> <li>• Frock</li> <li>• Ladies Kurta</li> <li>• Gents Kurta</li> <li>• Toper or</li> </ul> Designer saree with a blouse using surface ornamentation techniques with two traditional embroideries.	
24-25	INDUSTRIAL TRAINING	
26	Revision And Examination	

- Note: Practical exercises on 'Basic Stitches' shall consist of sample pieces to be Presented in the form of a file.

## TRADE : Surface Ornamentation Techniques(Embroidery)

### LIST OF TOOLS & EQUIPMENT

Sl. No.	Name of the Article	Quantity (Number)
<b>TRAINEES' TOOL KIT FOR 16 TRAINEES + 1 Instructor</b>		
1.	Measuring Tape 150 cm	17
2.	Seam Ripper	17
3.	Thimble	17
4.	Wooden Circular Frame 4",8" and 12"	17 each
5.	Thread cutter	17
6.	Color plate	17
7.	Color brush no. 00,1, 2.	17 each
8.	Water color Box (Set of 12)	17
9.	Scale plastic 12"	17
10.	Compass	17
11.	Hand Aari Needle (Set of Three)	17
<b>Machine Laboratory</b>		
1.	Zig-zag Embroidery machine complete set	16
2.	Stitching Machine (Motorized)	01
3.	Revolving chair	18
4.	Air Conditioner	02
5.	Pliers	04
6.	Display Board	02
7.	Table (for faculty)	01
8.	Chair	02
9.	Almirah	01
10.	Vacuum cleaner	01
11.	Automatic press	02
12.	Pressing pad	01
13.	Pigeon hole Almirah 10 lockers & separate locking arrangements for trainees	02
14.	Locks for above pigeon hole	16
15.	Low seated chair	16
16.	Carpet (Size as required)	01
17.	Tracing Table	02
18.	Cart Chop	02
19.	Display board	02
20.	Notice board	01



21.	Table (for faculty)	01
22.	Chair	02
23.	Almirah	01
24.	Air conditioner	02
<b>Theory Room</b>		
25.	Single desks for trainees with arrangements of keeping Books etc.	16
26.	Revolving Chairs without arms	16
27.	Faculty Table & Chair set	01
28.	Computer set with UPS & multimedia projector	01
29.	White Magnetic Board with Felt board & accessories	01
30.	Display Board	02
31.	Storage Almirah	01
32.	Book Shelf	01
33.	A/C unit split type 2 TR capacity with Stabilizer	As per requirement

Note:

- The quantity of hand Tools may be suitably increased as per the number of supernumeraries admitted in a unit.
- Trainees Tool kit may be treated as consumables in respect of trainees actually completing the course of one year (both the semesters) duration.

Note:

1. Due to the rapid changes in the technologies frequent Modernization of equipments and technologies is necessary.
2. Training Programme for Staff should be organized in the new fields added in the curriculum for the proper implementation of the same.
3. Experts from the Industry may be called for special lectures and demo's as and when required.

### **Trade testing and certification:**

After Completion of the course a trainee will be awarded NCVT certificate of Surface ornamentation Techniques (Embroidery) under CTS .

### **Further Learning Pathways:**

On successful completion of the course trainees can opt for -

- Higher qualification under CITS.
- Following MES courses to improve their skill areas –
  - Fashion Accessories Designer
  - Computerised machine embroidery
  - Traditional embroidery
  - Zardosi work
  - Batik Printing specialist
  - Tie & Dye Specialist
  - Block Printer