

SYLLABUS OF SEMESTER
FOR THE TRADE OF

SURFACE ORNAMENTATION TECHNIQUES
(EMBROIDERY)

Under

Crafts Instructors Training Scheme (CITS)
Two Semesters (One Year)

Redesigned in
2014

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

General Information

1. **Name of the Scheme** : Crafts Instructors' Training Scheme
2. **Name of the Trade** : **Surface Ornamentation Techniques**
3. **N. C. O. Code No.** :
4. **Duration of CITS Training** : One Year
5. **Entry Qualification** : One year NTC (NCVT) certificate in Embroidery & Needle Work/ Surface Ornamentation Techniques (Embroidery) Trade **or** Diploma /Degree (Minimum 2 years) in Costume Designing & Dress Making /Fashion Designing / Fashion Technology/ Apparel Technology / Garment Fabrication Technology
6. **Unit Strength (Batch Size)** : 20 Trainees
7. **Space required** :

Theory Room	:	65 sqm
Hand Work Lab	:	120 qm
Machine work Lab	:	120 sqm
Dyeing and Printing lab	:	10 sqm
8. **Power Norms** : 8 KW
9. **Qualifications for Trainer Academic** : 12th passed
10. **Qualifications for Trainer**

Technical

- : Degree in Fashion Technology /Costume Design & Dress Making With one year experience Or Diploma in Fashion Technology/Costume Design & Dress Making With Two year experience Or NCVT Certificate in Embroidery & Needle Work with Five years Experience in Surface ornamentation Techniques

Job Opportunities

for

SURFACE ORNAMENTATION TECHNIQUES(EMBROIDERY)

- 1. Instructors in ITI'S /RVTI'S Or any other institutions**
- 2. Design Coordinator to Fashion Designer**
- 3. Motifs / patterns and Conceptualization developer**
- 4. Machine Aari (crewel embroidery) Embroider**
- 5. Zig -zag (satin embroidery) Machine operator**
- 6. Hand Embroider**
- 7. Hand Aari Embroider**
- 8. Entrepreneur**
- 9. Tracing experts**
- 10. Computerized Machine Embroidery Operator**
- 11. Embroidery Design Developer**
- 12. Digitizing experts**

Surface Ornamentation Techniques (Embroidery)

CITS (SEMESTER –I)

Semester Code:

Duration: Six Months

Hrs:

Week no	Trade Practical 3 hrs	Trade Theory 3 hrs
1	<p>Revision of CTS COURSE</p> <ul style="list-style-type: none"> Practice of Hand Embroidery stitches, colors & setting of designs 	<p>Revision OF CTS COURSE</p> <ul style="list-style-type: none"> Introduction of Embroidery. Introduction of hand embroidery stitches. Introduction of colors & setting of designs. Introduction of Traditional Embroidery
02-05	<p>Develop Samples of the following with variety of designs -</p> <p>Kantha of Bengal Phulkari of Punjab ChikanKari of Lucknow</p>	<p>Knowledge of Traditional Embroidery Origin, types and Characteristics of the following –</p> <ul style="list-style-type: none"> Kantha of Bengal Phulkari of Punjab Chikankari of Lucknow
06-09	<p>Kashida Of Kashmir Kasuti of Karnataka Kutch Kathiyawar of Gujrat</p>	<ul style="list-style-type: none"> Kashida of Kashmir Kasuti of Karnataka Kutch Kathiyawar of Gujarat
10-13	<p>Applique Craft of Orissa Zardozi work ChambaRumal of Himachal</p>	<ul style="list-style-type: none"> Appliqué craft of Orissa Zardozi Work CambaRumal of Himachal
14-18	<p>Hand Aari Develop designs & finish with the following stitches –</p> <ul style="list-style-type: none"> Chain Stitch Sequin work variations of Shade work Satin work <p>Design development with chain stitch Design development with Mirror &Dabka work Knotted & Shade work</p>	<p>Variety of different traditional designs. Safety precautions while working with designs.</p>
19-21	<p>Sample development on Fabric embellishment Techniques with contemporary latest style and trend</p>	<p>Fabric embellishment Techniques</p>

	<ul style="list-style-type: none"> • Tie and dye • Batik • Stencil Printing • Block printing • Hand Painting • Patch work • Quilting work 	<ul style="list-style-type: none"> • Tie and dye • Batik • Stencil Printing • Block printing • Hand Painting • Patch work • Quilting Work
22-24	<p>Project – Trainees will develop a theme base set of articles using the skills learned above as per market demand, Creativity / interest of the trainee. (Home furnishing, Bridal set, Bed Sheet set etc)</p>	
26	Examination	

TRADE : Surface Ornamentation Techniques(Embroidery)

LIST OF TOOLS & EQUIPMENT

Sl. No.	Name of the Article	Quantity (Number)	Approx. Cost (One item)	Approx. Life Span (Years)
A. TRAINEES' TOOL KIT FOR 20 TRAINEES + 1 Instructor (Consumable)				
1.	Measuring Tape 150 cm	21	20.00	01
2.	Seam Ripper	21	20.00	01
3.	Thimble	21	25.00	01
4.	Wooden Circular Frame 4",8" and 12"	21 each	30.00	01
5.	Thread cutter	21	20.00	01
6.	Scale plastic 12"	21	25.00	01
7.	Compass	21	20.00	01
8.	Hand Aari Needle (Set of Three)	21	30.00	01
9.	Cotton Fabric	2 m	60.00	01
B. THEORY ROOM				
10.	Single desks for trainees with arrangements of keeping Books etc.	20	6000.00	10
11.	Revolving Chairs without arms	20	3000.00	10
12.	Faculty Table & Chair set	01	10,000.00	10
13.	Computer set with UPS & multimedia projector	01	50,000.00	7
14.	White Magnetic Board with Felt board & accessories	01	11000.00	10
15.	Display Board	02	5500.00	10
16.	Storage Almirah	01	12000.00	12
17.	Book Shelf	01	10000.00	10
18.	A/C unit type 2 TR capacity with Stabilizer	As per requirement	35000.00	6
C. Hand work Laboratory				
19.	Low seated chair	21	3500.00	10
20.	Carpet (Size as required)	01	1500.00	05
21.	Hand Aada (Sizes as per requirement)	04 set	2000.00	05
22.	Air Conditioner	02	35000.00	07
23.	Pliers	04	100.00	05

24.	Embroidery Scissors	10	200.00	05
25.	Display Board	02	5500.00	10
26.	Table (for faculty)	01	6000.00	12
27.	Chair	02	3000.00	12
28.	Almirah	01	12000.00	12
29.	Vacuum cleaner	01	3000.00	05
30.	Automatic press	02	2000.00	02
31.	Pressing pad	01	250.00	02
32.	Pigeon hole Almirah 10 lockers & separate locking arrangements for trainees	02	12000.00	12
33.	Locks for above pigeon hole	16	50.00	2
34.	Tracing Table	02	15000.00	12
35.	Display board	02	5500.00	10
36.	Notice board	01	3000.00	10
37.	Table (for faculty)	01	6000.00	10
38.	Chair	02	3000.00	10
TIE & DYE AND BATIK LABORATORY				
39.	Block printing Table	01	10000.00	10
40.	Gas Stove With Cylinder(new connection with security)	02	15000.00	10
41.	Utensils For Coloring (Assorted Size)	03	2000.00	3
42.	Plastic Tub (assorted sizes)	06	500.00	02
43.	Wooden Spatula	06	200.00	03
44.	Table Spoons	12	400.00	01
45.	Work Station	03	15000.00	7
46.	Sink With water inlet and outlet	01	8000.00	7
47.	Fire Extinguisher	02	5000.00	10
48.	Trainer's Table And Chair	01	10000.00	7
49.	Block Printing Color Trays	06	500.00	2
50.	Wooden Blocks Of Different Designs(assorted design assorted sizes)	100	20000.00	5
51.	Wax Heater For Batik	03	2000.00	5

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Surface Ornamentation Techniques (Embroidery)

CITS (SEMESTER –II)

Semester Code:

Duration: Six Months

Hrs:

Week no	Trade Practical 3 hrs	Trade Theory 1 hrs
01	Revision of Traditional Embroidery & Hand Aari Embroidery	Revision of Traditional Embroidery & Hand Aari Embroidery
02-06	<p>Zig –Zag Embroidery Machine Frame fitting and its precautions Practice of running Zig-Zag Machine Sample making of-</p> <ul style="list-style-type: none"> • Running Stitch • Satin Stitch • Shade work • Cording Stitch • Back Stitch • Types of Scallops • Variations of all above stitches 	<p>Introduction To Zig-Zag Machine How to set the machine for embroidery</p> <ul style="list-style-type: none"> • Threading a Machine • Winding a Bobbin • Parts&their Functions • Defects and Remedies
07-12	<p>Aari Machine Embroidery Set the machine for embroidery How to handle or operate machine</p> <ul style="list-style-type: none"> • Practicing different line • Straight • Vertical • Horizontal • Curve • Practice on printed fabric • Practice of moss Stitch 	<ul style="list-style-type: none"> • Safety at work • Introduction of Machine • Parts of Machine • Tools and their uses • Selection of needle &Thread according to fabric • Care and Maintenance of machines • Merits & Demerits of AariMachine • Selection of needle &Thread according to fabric
13	<p>Computerized Embroidery</p> <ul style="list-style-type: none"> • Machine operation • Change needle in details and its tools. • Precautions while changing needle. • Needle control according to design 	<p>Types of Needle and their uses and handling.</p> <ul style="list-style-type: none"> • Needle precautions • Types of needle • Checking the needle • Selection of needle according to fabric
14	<ul style="list-style-type: none"> • Load thread on machine. 	Types of Embroidery Threads

	<ul style="list-style-type: none"> • Winding/installing the bobbin • Bobbin precaution • Machine oiling and maintenance 	<ul style="list-style-type: none"> • Brief knowledge of threads • Difference between upper thread and bobbin thread • Maintenance of machines and Safe operating principle
15-20	<p>Software digitizing</p> <ul style="list-style-type: none"> • Type of stitches • Digitization process and all commands in software. • Stitch control and smooth running of machine as per digitizing. • Limitation of software. • Benefits of using software 	<p>Detailed study of digitizing process on software.</p> <ul style="list-style-type: none"> • Learn different stitches with examples on machine. • Making design on software. • Loading digitized designs in machine by students • Information of design on LCD (Liquid Crystal display) • Details knowledge of machine regarding Area and its capabilities.
21-23	<p>machine working in simple embroidery and specialized embroidery like sequins, tapping & cording, Chenille etc</p>	<p>Maintenance of machines and Safe operating principle</p>
24-25	<p>Project – Trainees will develop a theme base set of articles using the skills learned above as per market demand, Creativity / interest of the trainee. (Home furnishing, Bridal set, Bed Sheet set etc)</p>	
26	<p>Examination</p>	

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2.	Seam Ripper	21	20.00	01
3.	Thimble	21	25.00	01
4.	Wooden Circular Frame 4",8" and 12"	21 each	30.00	01
5.	Thread cutter	21	20.00	01
6.	Scale plastic 12"	21	25.00	01
7.	Compass	21	20.00	01
8.	Cotton Fabric	4 m	60.00	01
B. THEORY ROOM				
12.	Single desks for trainees with arrangements of keeping Books etc.	20	6000.00	10
13.	Revolving Chairs without arms	20	3000.00	10
14.	Faculty Table & Chair set	01	10,000.00	10
15.	Computer set with UPS & multimedia projector	01	50,000.00	7
16.	White Magnetic Board with Felt board & accessories	01	11000.00	10
17.	Display Board	02	5500.00	10
18.	Storage Almirah	01	12000.00	12
19.	Book Shelf	01	10000.00	10
20.	A/C unit type 2 TR capacity with Stabilizer	As per requirement	35000.00	6
C. Machine work Laboratory				
21.	Zig-zag Embroidery machine complete set	20	18000.00	10
22.	Stitching Machine (Motorized)	01	17500.00	10
23.	Over lock Machine 3 thread	01	15000.00	10
24.	Aari Machine	05	100000.00	10
25.	Computerized embroidery machine (Industrial Model) complete set	01	1500000.00	10

26.	Digitizing Software	02	150000	
27.	Computer Set	02	50000.00	05
28.	Computer Table Chair set	02	10000.00	05
29.	Revolving chair for machines	23	1500.00	05
30.	Air Conditioner	02	35000.00	07
31.	Pliers	04	100.00	05
32.	Display Board	02	5500.00	10
33.	Table (for faculty)	01	6000.00	12
34.	Chair	02	3000.00	12
35.	Almirah	01	12000.00	12
36.	Vacuum cleaner	01	3000.00	05
37.	Automatic press	02	2000.00	02
38.	Pressing pad	01	250.00	02
39.	Pigeon hole Almirah 10 lockers & separate locking arrangements for trainees	02	12000.00	12
40.	Locks for above pigeon hole	16	50.00	02
41.	Scissors	10	200.00	05
42.	Pinking Shears	02	250.00	05
43.	Cutting Table	02	15000.00	12
44.	Pressing Stand/Table	02	8000.00	10
45.	Mannequins(lady)	02	10,000	10

Note:

- The quantity of hand Tools may be suitably increased as per the number of supernumeries 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.