### Syllabus for the trade of

### EMBROIDERY AND NEEDLE WORK

(SEMESTER PATTERN)

UNDER CRAFTSMEN TRAINING SCHEME

Designed in 2013

By
Government of India
CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE
Directorate General of Employment and Training
Ministry of Labour & Employment
EN - 81, SECTOR – V, SALT LAKE CITY,
Kolkata – 700 091.

List of Members of Trade Committee meeting for the trade of "Embroidery & Needle Work" held at NVTI, Noida, Dated 15/12/2011

SI.	NAME	REPRESENTING ORGANIZATION	REMARKS
No.	&DESIGNATION		
	S/SHRI		
1.	Ms. Upma Bhatia,	Principal	Chairman
	Jt. Dir. of Training	N V T I , Noida	
2.	Mr. Rajender Kumar,	DGE&T, Shram Shakti	Member
	Jt. Dir. of Training	Bhawan, New Delhi	
3.	Mr. Lalit Mohan Dixit	Proprietor "Infinity"	Member
		Sector – 10, Noida	
4.	Mr. Gabriel Scarvelli	Proprietor "TCQ"	Member
		Karol Bagh, New Delhi	
5.	Mr. Sunny Soni	Proprietor "Artworld	Member
		Punching"Kailash Colony	
		New Delhi	
6.	Mr. Sunil Sharma	Freelance Designer	Member
		New Delhi	
7.	Ms. Pallavi Yadav	Textile Designer	Member
		Sewa Polytechnic, New Delhi	
8.	Ms. Priya,	(Fashion Desiging)	Member
	Instructor	Sewa Polytechnic, New Delhi	
9.	Mr. M.D. Azam	Embroidery Incharge	Member
		B L International	
10.	Mr. Ravi Goswami,	(Technical &Sales)	Member
	Manager	Magnum Resourses	
11.	Mr. Dhirender Kumar	Proprietor"Dixit International"	Member
	Dixit		
12.	Ms. Babita ,	NVTI Noida	Member
	Training Officer,		
13.	Ms. Chitra,	RVTI, Panipat	Member
	Training Officer		
14.	Ms. Kavita,	RVTI, Panipat	Member
	Vocational Instructor,		

# List of members attended the Workshop to finalize the syllabi of existing CTS into Semester Pattern held from $6^{th}$ to $10^{th}$ May'2013 at CSTARI, Kolkata.

SI. No.	Name & Designation	Organisation	Remarks
1.	R.N. Bandyopadhyaya, Director	CSTARI, Kolkata-91	Chairman
2.	K. L. Kuli, Joint Director of Training	CSTARI, Kolkata-91	Member
3.	K. Srinivasa Rao,	CSTARI, Kolkata-91	Member
	Joint Director of Training		
4.	L.K. Muhkerjee,	CSTARI, Kolkata-91	Member
	Deputy Director of Training		
5.	Ashoke Rarhi,	ATI-EPI, Dehradun	Member
	Deputy Director of Training		
6.	N. Nath,	CSTARI, Kolkata-91	Member
	Assistant Director of Training		
7.	S. Srinivasu,	ATI-EPI, Hyderabad-13	Member
	Assistant Director of Training		
8.	Sharanappa,	ATI-EPI, Hyderabad-13	Member
	Assistant Director of Training		
9.	Ramakrishne Gowda,	FTI, Bangalore	Member
	Assistant Director of Training		
10.	Goutam Das Modak,	RVTI, Kolkata-91	Member
	Assistant Director of Trg./Principal		
11.	Venketesh. Ch. , Principal	Govt. ITI, Dollygunj,	Member
		Andaman & Nicobar Island	
12.	A.K. Ghate, Training Officer	ATI, Mumbai	Member
13.	V.B. Zumbre, Training Officer	ATI, Mumbai	Member
14.	P.M. Radhakrishna pillai,	CTI, Chennai-32	Member
	Training Officer		
15.	A.Jayaraman, Training officer	CTI Chennai-32,	Member
16.	S. Bandyopadhyay, Training Officer	ATI, Kanpur	Member
17.	Suriya Kumari .K , Training Officer	RVTI, Kolkata-91	Member
18.	R.K. Bhattacharyya, Training Officer	RVTI, Trivandrum	Member
19.	Vijay Kumar, Training Officer	ATI, Ludhiana	Member
20.	Anil Kumar, Training Officer	ATI, Ludhiana	Member
21.	Sunil M.K. Training Officer	ATI, Kolkata	Member
22.	Devender, Training Officer	ATI, Kolkata	Member
23.	R. N. Manna, Training Officer	CSTARI, Kolkata-91	Member
24.	Mrs. S. Das, Training Officer	CSTARI, Kolkata-91	Member
25.	Jyoti Balwani, Training Officer	RVTI, Kolkata-91	Member
26.	Pragna H. Ravat, Training Officer	RVTI, Kolkata-91	Member
27.	Sarbojit Neogi, Vocational Instructor	RVTI, Kolkata-91	Member
28.	Nilotpal Saha, Vocational Instructor	I.T.I., Berhampore,	Member
		Murshidabad, (W.B.)	
29.	Vijay Kumar, Data Entry Operator	RVTI, Kolkata-91	Member

#### **GENERAL INFORMATION**

1. Name of the Trade :- Embroidery & Needle Work

2. NCO Code No.

3. **Duration** :- One Year (Two Semesters)

4. **Power Norms** :- 3.7 KW

5. **Space Norm** :- 56 sq. Meters

6. **Entry Qualification** :- Passed 8 th class examination

7. Unit Size(No of Students) :- 16 Trainees

8. **Qualification for Instructor**:- (i) NTC/NAC Embroidery and Needle Work trade with three years Experience

OR

(ii) Diploma in Fashion Technology/Costume Design and Dress Making with two years Experience.

OR

(iii) Degree in Fashion Technology/ Costume Design and Dress Making with one year Experience.

**9. Desirable Qualification** :- Preference will be given to a candidate with CTC in Embroidery and Needle

Note: At least one Instructor must have Degree/Diploma in Relevant Field

# SYLLABUS FOR THE TRADE OF EMBROIDERY & NEEDLE WORK UNDER C.T.S DURATION: Six Months

**First Semester** 

Semster Code :ENW: SEM I

	Trade Practical	Trade Theory	
Week No.			
01	Drawing & Creation  1. Colour Wheet 2. Types of Colour a) Primary Colour b) Secondary Colour c) Tertiary Colour d) Quarternary Colour e) Intermediate Colour	1. Colour Wheel 2. Definition & Types of Colour 3. Drawing Tools & Equipments.  Knowledge of General Safety, Occupational health and hygiene.	
02-03	f) Achromatic/Netral Colour Colour Schemes	Colour Schemes	
	a) Achromatic – Mono, Bio, Triad b) Chromatic – Monochrome, Monochromatic, Contrast, Complimentary, Split Complimentary, Analogous, Cools, Warm, Releated.		
04-05	Placement of Design – Half Drop, Full Drop,	Place of Design.	
	Brick, Oogee, Balance, Rythem, Harmony, Proprotion.	Types of Basic Stitches & their uses.	
06-07	Flat Stitches  1. Running Stitch 2. Back Stitch 3. Stem Stitch 4. Herring Bone Stitch 5. Fishbone Stitch 6. Satin Stitch 7. Kashmiri Stitch/Kashmiri Knot Stitch 8. Spider Stitch	<ol> <li>Tracing Tools &amp; Equipments</li> <li>Techniques of Running, Back, Stem Stitch &amp; their uses.</li> <li>Tracing Methods</li> <li>Techniques, Stain Stitch &amp; their uses.</li> <li>Techniques of Kashmiri Stitch &amp; Spider Stitch &amp; their uses.</li> </ol>	
08	1. Chain Stitch 2. Feather Stitch	Techniques of Chain, Feather & Lazy Dazy Stitch their uses.	

	<ol> <li>Lazy- Dazy Stitch</li> <li>Button Hole Stitch</li> <li>Variation of Button Hole Stitch</li> <li>Blanket Stitch</li> </ol>	
09	Knotted Stitches  1. French Knot Stitch 2. Bullion Stitch 3. Sippi Stitch	Techniques of Button Hole, Blanket Stitch & their uses.
10	Fancy Net ( Hand work )  1. Cane Weaving Stitch (a) Single Cane Wearing (b) Double Cane Wearing 2. Button Hole Net	Techniques of French knot, Bullion, Sippi Stitch their uses.
11	Couching Stitch (Hand work)  1. Straight Couching 2. Zig zag Couching 3. Lopped Couching 4. Circular Couching	Definition, Types & characteristics.
12	Shade Work (Hand work)  1. Running Shade 2. Long & Short Shade 3. Button Hole Shade	Definition, Types & characteristics.
13	Practical of Long & Short Shade work in different flowers & leafs	
14	Scallops Making in Hand Emb.  a) Button Hole Scallops b) Satin Scallops	Different kind of Decorative Edges in Hand Embroidery.
15-16	Smocking (Hand work)  1. China Smocking a) Flower Smocking b) Wave Style c) Pineapple Style d) Mat Style 2. English Smocking	Definition, Types & characteristics.
17-18	zig Zag Machine Embroidery  a) Practice of Operation Machine b) Speed Control c) Threading of Machine d) Cleaning & Oiling of Machine e) Practice of Moving the Frame	Handling & Preparation of Machine Embroidery Used of Tools & Equipment in Machine Embroidery

19	Practice of Running Stitch	Part of Automatic Zig Zag Machine & its Control
20	Rolled Hem	Merits, Demerits & characteristics of Automatic Zig Zag Machine.
21	Practice of Zig Zag Stitch	Enlargement & Reduction of Design.
22-24	Practice of operation the machine  Threading of machine.	Computerized Embroidery Machine  Different types of single head single needle computerized embroidery machine available in the market and their function.
	Use the frame in different types of materials.	Part of single head single needle computerized embroidery machine & their control.
25	Project work / Industrial visit (optional)	
26	EXAMINATION	

# SYLLABUS FOR THE TRADE OF EMBROIDERY & NEEDLE WORK UNDER C.T.S DURATION: Six Months

**Second Semester** 

Semester Code :ENW: SEM II

Week No.	Practical	Theory
01-02	Drawing & colouring	Elements of Design
	Elements of Design	
	<ul> <li>a) Space – Positive, Negative</li> <li>b) Line – Types of line</li> <li>c) Form – Types of form Natural, Man made, Abstract</li> <li>d) Colour Scheme</li> <li>e) Texture</li> </ul>	
03-04	Design	Types of Design.
	<ul><li>a) Kind of Design</li><li>b) Sources of Design</li></ul>	
05	Combination of Design	Sources of Design
06-07	Applique Work ( Hand work )	Definition, Types & characteristics.
	<ul> <li>i. Simple Applique</li> <li>ii. Cut Applique</li> <li>iii. Felt Applique</li> <li>iv. Embroidered Applique</li> <li>v. Net Applique</li> <li>vi. Shadow Applique</li> </ul>	
08-09	Cut Work ( Hand Work )	Definition, Types & characteristics.
	a) Eyelet b) Open Cut Work c) Hardanger Cut Work	
10	Quilting ( Hand Work )	Definition, Types & characteristics.
	<ul><li>a) English Quilting</li><li>b) Italian Quilting</li><li>c) Shadow Quilting</li></ul>	
11	Assisi Work & Cross Stitch ( Hand work )	Techniques of Assisi work, Cross Stitch & their uses.
12	Drawn & Pulled Thread work	Related Theory
13	Fancy Work ( Hand work )	Related Theory

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	<ul><li>a) Practice of sequences in Simple Line</li><li>b) Overlapping Line</li><li>c) Use of Beads &amp; other accessories</li></ul>	
14	Beading ( Hand work )	Related theory
	<ul><li>a) Single Beading</li><li>b) Double Beading</li><li>c) Zig Zag Beading</li></ul>	
15	Zig Zag Machine Embroidery	Mechanical Faults of Automatic
	Practice of Round Leafs in Different Design	Machine &Their Remedies
16	Practice of Dotted Stitch	Pressing Tools & Equipments
17	Practice of Pointed Leafs in Different	Types of threads Used in Machine
	Design	Embroidery
18	Applique work in Machine Embroidery & Its variation	Classification of Fibers
19	Practice of Dori Work in Machine	Relation Between Thread,
	Embroidery	Machine needle and Cloth.
20	Mirror Work Through Machine Embroidery	Care & Maintenance of Embroidery Machine
21	Practice Cut Work Through Machine Embroidery	Production Control
22	Round Stitch in Machine Embroidery	Quality Control
23-24	Computerized Embroidery Machine	Computerized Embroidery Machine
	Practice & Used tools for single head and Sle needle.	Knowledge trade related software available in the market.
	Use the preloaded design in different articles.	Types of stitches used in single head & single needle computerized embroidery machine.
	Change the prefixed colour scheme in the Articles.	
25	Revision	
26	Final Trade Test	
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#### Note:-

- 1. Visit to the related Industry, Craft Museum, Fair whenever available.
- 2. A Catalogue of Embroidery Stitches shall be made by each trainee.
- 3. Application of above mentioned embroidery stitches will be on any six articles.

#### List of Article:-

a) Ladies Handkerchief

- b) Gents Handkerchief
- c) Cushion Cover
- d) Pillow Cover
- e) Baby Frock/Skirt
- f) Baby Sheet
- g) Ladies Blouse
- h) Ladies Suit
- i) Saree

Remarks:- The time period of Social Studies will be given to New Subject "Employability Skills."

## TRADE: Embroidery & Needle Work LIST OF TOOLS & EQUIPMENT

#### A. TRAINEES TOOL KIT FOR 16 TRAINEES + one

S.No.	Description	Qty.
1.	Scissors Big	17 Nos.
2.	Calculator	01 No.
3.	Wall Clock (One for practical lab & one for theory room)	02 Nos.
4.	Cellotape Dispenser	01 No.
5.	Screw Driver Set	02No.
6.	Plyer	02 No.
7.	Belt Cutter	02 No.
8.	Thread Cutter	17 Nos.
9.	Stitch Opener	17 Nos.
10.	Embroidery Frame/Ring (4" – 5")	17 Nos.
11.	Embroidery Frame/Ring (7" – 8")	17 Nos.
12.	Measuring Tape	17 Nos.
13.	Stapler	02 No.
14.	Door Mats (One for practical lab & one for theory room)	02 Nos.
15.	Rubber Mat	02 No.
16.	Blanket	02 No.
17.	Cotton Sheet/Plain Cotton Fabric	01 No.
18.	Water Spray Bottle	02 No.
19.	Pinking Scissor	05 Nos.
20.	Geometric Box	17 Nos.
21.	Pointed Pencil	17 Nos.
22.	Eraser	17Nos.
23.	Drawing Sketch Book	17 Nos.
24.	Water Colour Box	17 Nos.
25.	Drawing Brush (0/1/2 no.)	17 Nos. Each
26.	Stencil	05 Nos.
27.	Colour Palette	17 Nos.
Remark: S. No. 08-12, 14-15, 18, 20-27 treated as consumable items		

### **EMBROIDERY AND NEEDLE WORK**

A. Machinery & Equipments

S.No.	Description	Qty.
1.	Single Head upto 14 Needle Computerized Embroidery + Stitching	01 No.
	Machine	
2.	Automatic Electric Press	01 No.
3.	Air Conditioner Unit split 2 Ton capacity with Stabilizer	03 Nos.
4.	Blower	As per required
5.	Treadle (Foot) Machines	16 Nos
6.	Zig-Zag Embriodery Machines (with Motor)	2 Nos

#### **B.** Furniture (for theory Room and Practical Lab)

S.No.	Description	Qty.
1.	Instructor Table	02 Nos.
	(One for practical lab & one for theory room)	
2.	Instructor Chair	03 Nos.
	( Two for practical lab & one for theory room )	
3.	Almirah	02 Nos.
4.	Low Seated Chair	17 Nos.
5.	Trainees Locker (8 Cabinet )	02 Nos.
6.	Cutting Table/Tracing Table	01 No.
7.	White Magnetic Board	02 Nos.
	(One for practical lab & one for theory room)	
8.	Display Board	03 Nos.
9.	Interactive Board complete with Latest Computer	02 Nos.
	(One for practical lab & one for theory room)	
10.	Tables ( for theory cum drawing lab )	17 Nos.
11.	Stable Chair ( for zig zag machine and theory cum drawing lab )	20 Nos.
12.	Pressing Table	01 No.
13.	Curtains	As per required
14.	Carpet ( for hand embroidery )	As per required