

SURFACE ORNAMENTATION TECHNIQUES

NSQF LEVEL- 3.5



SECTOR- APPAREL

COMPETENCY BASED CURRICULUM

CRAFT INSTRUCTOR TRAINING SCHEME (CITS)



GOVERNMENT OF INDIA

Ministry of Skill Development & Entrepreneurship Directorate General of Training

CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE

EN-81, Sector-V, Salt Lake City, Kolkata - 700091



SURFACE ORNAMENTATION TECHNIQUES

(Non-Engineering Trade)

SECTOR – APPAREL

(Revised in 2024)

Version 2.1

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NSQF LEVEL - 3.5

Developed By
Government of India
Ministry of Skill Development and Entrepreneurship

Directorate General of Training

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1. COURSEOVERVIEW

The Craft Instructor Training Scheme is operational since inception of the Craftsmen Training Scheme. The first Craft Instructors' Training Institute was established in 1948. Subsequently, 6 more institutes namely, Central Training Institute for Instructors (now called as National Skill Training Institute (NSTI)), NSTI at Ludhiana, Kanpur, Howrah, Mumbai, Chennai and Hyderabad were established in 1960's by DGT. Since then the CITS course is successfully running in all the NSTIs across India as well as in DGT affiliated institutes viz. Institutes for Training of Trainers (IToT). This is a competency based course of one year duration. "Surface Ornamentation Techniques" CITS trade is applicable for Instructors of "Surface Ornamentation Techniques" CTS Trade.

The main objective of Craft Instructor training programme is to enable Instructors explore different aspects of the techniques in pedagogy and transferring of hands-on skills so as to develop a pool of skilled manpower for industries, also leading to their career growth & benefiting society at large. Thus promoting a holistic learning experience where trainee acquires specialized knowledge, skills & develops attitude towards learning & contributing in vocational training ecosystem.

This course also enables the instructors to develop instructional skills for mentoring the trainees, engaging all trainees in learning process and managing effective utilization of resources. It emphasizes on the importance of collaborative learning & innovative ways of doing things. All trainees will be able to understand and interpret the course content in right perspective, so that they are engaged in & empowered by their learning experiences and above all, ensure quality delivery.

2. TRAINING SYSTEM

2.1 GENERAL

CITS courses are delivered in National Skill Training Institutes (NSTIs) & DGT affiliated institutes viz., Institutes for Training of Trainers (IToT). For detailed guidelines regarding admission on CITS, instructions issued by DGT from time to time are to be observed. Further complete admission details are made available on NIMI web portal http://www.nimionlineadmission.in. The course is of one-year duration. It consists of Trade Technology (Professional skills and Professional knowledge), Training Methodology and Engineering Technology/ Soft skills. After successful completion of the training programme, the trainees appear in All India Trade Test for Craft Instructor. The successful trainee is awarded NCIC certificate by DGT.

2.2 COURSE STRUCTURE

Table below depicts the distribution of training hours across various course elements during a period of one year:

S No.	Course Element	Notional Training Hours
1.	Trade Technology	
	Professional Skill (Trade Practical)	480
	Professional Knowledge (Trade Theory)	270
2.	. Training Methodology	
	TM Practical	270
	TM Theory	180
	Total	1200

Every year 150 hours of mandatory OJT (On the Job Training) at nearby industry, wherever not available then group project is mandatory.

3	On the Job Training (OJT)/ Group Project	150
4	Optional Course	240

Trainees can also opt for optional courses of 240 hours duration.

2.3 PROGRESSION PATHWAYS

- Can join as an Instructor in vocational training Institute/ technical Institute.
- Can join as a supervisor in Industries.

2.4 ASSESSMENT & CERTIFICATION

The CITS trainee will be assessed for his/her Instructional skills, knowledge and attitude towards learning throughout the course span and also at the end of the training program.

- a) The Continuous Assessment (Internal) during the period of training will be done by **Formative Assessment Method** to test competency of instructor with respect to assessment criteria set against each learning outcomes. The training institute has to maintain an individual trainee portfolio in line with assessment guidelines. The marks of internal assessment will be as per the formative assessment template provided on www.bharatskills.gov.in.
- b) The **Final Assessment** will be in the form of **Summative Assessment Method**. The All India Trade Test for awarding National Craft Instructor Certificate will be conducted by DGT at the end of the year as per the guidelines of DGT. The learning outcome and assessment criteria will be the basis for setting question papers for final assessment. The external examiner during final examination will also check the individual trainee's profile as detailed in assessment guideline before giving marks for practical examination.

2.4.1 PASS CRITERIA

Allotment of Marks among the subjects for Examination:

The minimum pass **percent** for Trade Practical, TM Practical, Soft Skill Practical Examinations and Formative assessment is 60% & for all other subjects is 40%. There will be no Grace marks.

2.4.2 ASSESSMENT GUIDELINE

Appropriate arrangements should be made to ensure that there will be no artificial barriers to assessment. The nature of special needs should be taken into account while undertaking the assessment. While assessing; the major factors to be considered are approaches to generate solutions to specific problems by involving standard/non-standard practices.

Due consideration should also be given while assessing for teamwork, avoidance/reduction of scrap/wastage and disposal of scrap/waste as per procedure, behavioral attitude, sensitivity to the environment and regularity in training. The sensitivity towards OSHE and self-learning attitude are to be considered while assessing competency.

Assessment will be evidence based comprising of the following:

- Demonstration of Instructional Skills (Lesson Plan, Demonstration Plan)
- Record book/daily diary
- Assessment Sheet
- Progress chart
- Video Recording
- Attendance and punctuality
- Viva-voce
- Practical work done/Models
- Assignments
- Project work

Evidences and records of internal (Formative) assessments are to be preserved until forthcoming yearly examination for audit and verification by examining body. The following marking pattern to be adopted while assessing:

Performance Level Evidence (a) Weightage in the range of 60%-75% to be allotted during assessment For performance in this grade, the candidate • Demonstration of *fairly good* skill to should be well versed with instructional establish a rapport with audience, design, implement learning programme and presentation in orderly manner and assess learners which demonstrates establish as an expert in the field. attainment of an acceptable standard of • Average engagement of students for instructorship with crafts occasional learning and achievement of goals while guidance students and engage by undertaking the training on specific topic. demonstrating good attributes of a trainer. • A fairly good level of competency in expressing each concept in terms the student can relate, draw analogy and summarize the entire lesson. Occasional support in imparting effective training. (b) Weightage in the range of 75%-90% to be allotted during assessment

For performance in this grade, the candidate should be well versed with instructional design, implement learning programme and assess learners which demonstrates attainment of a *reasonable standard* of crafts instructorship with *little* guidance and engage students by demonstrating good attributes of a trainer.

- Demonstration of good skill to establish a rapport with audience, presentation in orderly manner and establish as an expert in the field.
- Above average engagement of students for learning and achievement of goals while undertaking the training on specific topic.

- A good level of competency in expressing each concept in terms the student can relate, draw analogy and summarize the entire lesson.
- Little support in imparting effective training.

(c) Weightage in the range of more than 90% to be allotted during assessment

For performance in this grade, the candidate should be well versed with instructional design, implement learning programme and assess learners which demonstrates attainment of a *high standard* of crafts instructorship with *minimal or no support* and engage students by demonstrating good attributes of a trainer.

- Demonstration of *high* skill level to establish a rapport with audience, presentation in orderly manner and establish as an expert in the field.
- Good engagement of students for learning and achievement of goals while undertaking the training on specific topic.
- A high level of competency in expressing each concept in terms the student can relate, draw analogy and summarize the entire lesson.
- Minimal or no support in imparting effective training.

3. GENERAL INFORMATION

Name of the Trade	Surface Ornamentation Techniques (CITS)	
Trade Code	DGT/4023	
NCO - 2015	2356.0100, 3122.3500, 8153.0500, 8153.0600, 8153.0601	
NOS Covered	AMH/N9424, AMH/N9425, AMH/N9426, AMH/N9427, AMH/N9428, AMH/N9429, AMH/N9430, AMH/N9410, AMH/N9414, AMH/N9417, MEP/N9443	
NSQF Level	Level – 3.5	
Duration of Craft Instructor Training	One Year	
Unit Strength (No. Of Student)	25	
Entry Qualification	Degree in Costume Designing & Dress Making /Fashion Designing / Fashion Technology / Apparel Technology / Garment Fabrication Technology from recognized Board / University. OR 3 years diploma in Costume Designing & Dress Making /Fashion Designing / Fashion Technology / Apparel Technology / Garment Fabrication Technology after class 10 th from recognized board / University. OR Ex-serviceman from Indian Armed forces with 15 years of service in related field as per equivalency through DGR OR 1 year NTC passed in the trade of "Surface Ornamentation Techniques (Embroidery)" (Candidate must have passed 10th Class).	
Minimum Age	16 years as on first day of academic session.	
Space Norms	120 Sq. m	
Power Norms	8 KW	
Instructor's Qualification for		
Surface Ornamentation Techniques (CITS) Trade	B.Voc /Degree in Fashion Technology /Costume Design & Dress Making from AICTE/ UGC recognized university/ board with two years' experience in relevant field.	
	OR Diploma (Minimum 2 Years) in Fashion Technology/Costume Design & Dress Making from recognized university/ board with five years' experience in relevant field	

	Ex-serviceman from Indian Armed forces with 15 years of service in related field as per equivalency through DGR. Candidate should have undergone methods of instruction course or minimum 02 years of experience in technical training institute of Indian Armed forces. OR NTC/ NAC passed in the Surface Ornamentation Techniques or related trades with seven years' experience in relevant field.
	Essential Qualification: Relevant National Craft Instructor Certificate (NCIC) in Surface Ornamentation Techniques trade, in any of the variants under DGT.
2. Soft Skills	MBA/ BBA / Any Graduate/ Diploma in any discipline from AICTE/ UGC recognized College/ university with Three years' experience and short term ToT Course in Soft Skills from DGT institutes. (Must have studied English/ Communication Skills and Pasis
3. Training Methodology	(Must have studied English/ Communication Skills and Basic Computer at 12th / Diploma level and above). B.Voc/ Degree in any discipline from AICTE/ UGC recognized
	College/ university with two years' experience in training/ teaching field. OR
	Diploma in any discipline from recognized board / University with five years' experience in training/teaching field. OR
	NTC/ NAC passed in any trade with seven years' experience in training/ teaching field.
	Essential Qualification: National Craft Instructor Certificate (NCIC) in any of the variants under DGT / B.Ed /ToT from NITTTR or equivalent.
4. Minimum Age for Instructor	21 Years

4. JOB ROLE

Brief Description of Job Roles:

Sewing Machine Operator, General; Sitcher Machine (Textile and Fur products) operates sewing machine to join pieces of cloth, hosiery fabric, canvas, fur and leather for making garments, bags, upholstery and other textile and fur products. Places spools of required type and colour of thread and winds bobbin son machine. Draws thread under tension spring and through guides into eye of needle. Adjusts tension on thread and sets number of stitches per inch if necessary. Raises pressure foot of machine to admit material to be sewed and lowers pressure foot on material. Starts machine and guides material to be sewed under needle of machine. Observes stitches while sewing. Stops machine, breaks and cuts threads and removes sewed material. Replaces empty spool and bobbin with full ones as and when necessary. Cleans and oils machine. May remove minor faults and assist in repairs and overhauling of sewing machine. May set and attach special gadgets to machine for having special type of stitches. May be designated according to type of machine operated such as Blind Stitch Machine, Operator; Zig-Zag Machine, Operator; Bar Tacking Machine, Operator; Turning and Pressing Machine Operator; Shoulder Strap, Turning Machine Operator; Postbed Machine Operator; Double Needle, Sewing Machine Operator; Etc.

Supervisors and Foremen, Tailoring and Dress Making; Supervisor and Foreman, Tailoring and Dress Making supervises and guides ornamental workers engaged in production of readymade garments and ensures standard fittings and finish at reasonable cost. Guides workers in making patterns for cutting, adjusting electrical and special purpose sewing machines, setting, joining and sewing parts, button matching, etc., and ensures standard fittings and finish.

Manual Training Teacher/Craft Instructor; instructs students in ITIs/Vocational Training Institutes in respective trades as per defined job role. Imparts theoretical instructions for the use of tools& equipment of related trades and related subjects. Demonstrate process and operations related to the trade in the workshop; supervises, assesses and evaluates students in their practical work. Ensures availability & proper functioning of equipment and tools in stores.

Reference NCO 2015:

- a) 2356.0100-Manual Training Teacher/Craft Instructor
- b) 3122.3500 Supervisors and Foremen, Tailoring and dress making
- c) 8153.0500 Embroider, Machine
- d) 8153.0600 Embroidery Machine Operator (Semi -Automatic)
- e) 8153.0601 Embroidery Machine Operator (Zig-Zag Machine) /AMH/Q0801

Reference NOS:

- a) AMH/N9424
- b) AMH/N9425
- c) AMH/N9426
- d) AMH/N9427
- e) AMH/N9428
- f) AMH/N9429

- g) AMH/N9430
- h) AMH/N9410
- i) AMH/N9414
- j) AMH/N9417
- k) MEP/N9443

5. LEARNING OUTCOMES

Learning outcomes are a reflection of total competencies of a trainee and assessment will be carried out as per the assessment criteria.

5.1TRADE TECHNOLOGY

- 1. Design & Demonstrate the sample of basic hand stitches and traditional embroidery using various types of colour &design. (NOS: AMH/N9424)
- Design & Demonstrate sample of Indian Traditional Embroideries, appliqué work& traditional needle craft with the knowledge of their origin &history. (NOS: AMH/N9425)
- 3. Demonstrate the variety of different traditional designs made by Basic Embroidery stitches (contemporary stitches). (NOS: AMH/N9426)
- 4. Recognize the significance of surface embellishment techniques as value addition with the use of different painting, printing and needle craft techniques. (NOS: AMH/N9427)
- 5. Analyze the process of Drawing, creating & placing free hand designs of various types of motifs. (NOS: AMH/N28)
- 6. Evaluate the design with variations of Basic Embroidery stitches using Zig-Zag Machine with the help of brief knowledge of its precautions. (NOS: AMH/N9429)
- 7. Experiment with Aari Embroidery machine to develop design variation in Aari using appropriate needle& thread according to fabric. (NOS:AMH/9410)
- 8. Demonstrate Computerized Embroidery machine with proper knowledge about its tools & precautions. (NOS: AMH/N9414)
- 9. Demonstrate the process of digitizing on Software with detail knowledge about machine regarding area and its capabilities. (NOS: AMH/N9430)
- 10. Arrange & Demonstrate specialized Embroidery on machine to develop design variation using sequins, cording etc. (NOS: AMH/N9417)
- 11. Exhibit effective communication skills with logical reasoning ability and quantitative aptitude to maximize efficiency in work. (NOS: MEP/N9443)

6. COURSE CONTENT

SYLLABUS FOR SURFACE ORNAMENTATION TECHNIQUES— CITSTRADE				
	TRADE TECHNOLOGY			
Duration	Reference Learning Outcome	Professional Skills (Trade Practical)	Professional Knowledge (Trade Theory)	
Practical 09 Hrs. Theory 06 Hrs.	Design & demonstrate the sample of basic hand stitches and traditional embroidery using various types of color & design.	Practice of Hand Embroidery stitches, colors & setting of designs	 Introduction of Embroidery. Introduction of hand embroidery stitches. Introduction of colors & setting of designs. Introduction of Traditional Embroidery Different types of fabrics 	
Practical 118 Hrs. Theory 47 Hrs.	Design & demonstrate sample of Indian Traditional Embroideries, appliqué work& traditional needle craft with the knowledge of their origin & history.	 2. Develop Samples of the following with variety of designs - Kantha of Bengal Phulkari of Punjab ChikanKari of Lucknow Kashida of Kashmir Kasuti of Karnataka Kutch Kathiyawar of Gujrat Applique Craft of Orissa Zardozi work Chamba Rumal of Himachal 	Knowledge of Traditional Embroidery Origin, types and Characteristics of the following Katha of Bengal Phulkari of Punjab Chikankari of Lucknow Kashida of Kashmir Kasuti of Karnataka Kutch Kathiyawar of Gujarat Applique craft of Orissa Zardozi Work Camba Rumal of Himachal	
Practical 55 Hrs. Theory 20 Hrs.	Demonstrate the variety of different traditionaldesigns made by Basic Embroidery stitches (contemporary stitches).	Hand Aari 3. Develop designs & finish with the following stitches • Chain Stitch • Sequin work • Variations of Shade work • Satin work 4. Design development with chainstitch Design	Variety of different traditional designs. Safety precautions while working with designs.	

		development with Mirror & Dabka work Knotted & Shade work.	
Practical 35 Hrs. Theory 10 Hrs.	Recognize the significance of surface embellishment techniques as value addition with the use of different painting, printing and needle craft techniques.	5. Sample development on Fabric embellishment Techniques with contemporary latest style and trend	Fabric embellishment Techniques
Practical 18 Hrs.	Analyze the process of Drawing, creating & placing free hand	6. Practice of Free Hand Drawing of various types of motifs.	Sources & Inspiration of Design Elements - Brief idea about motifs.
Theory 12 Hrs.	designs of various types of motifs.	7. Natural, Geometrical, Stylized, Ornamental, Floral, Abstract. Practice Repeat techniques Of Motifs 8. Plain, Vertical, Horizontal, Diagonal, Dominating, Gradation, Contrast repeat of motif.	Types of motif. Repeat techniques of Motifs.
Practical 55	Evaluate the design	Zig -Zag Embroidery	Introduction To Zig-Zag
Hrs. Theory 20 Hrs.	with variations of Basic Embroidery stitches using Zig-Zag Machine with the help of brief knowledge of its precautions.	Machine 9. Frame fitting and its precautions Practice of running Zig-Zag Machine Sample making of- Running Stitch Satin Stitch Shade work Cording Stitch Back Stitch Types of Scallops Variations of all above stitches	Machine. How to set the machine for embroidery- Threading a Machine Winding a Bobbin Parts & their Functions Defects and Remedies

D	F	A. Charles E. L. Charles	I
Practical 75 Hrs. Theory 30 Hrs.	Experiment with Aari Embroidery machine to develop design variation in Aari using appropriate needle & thread according to fabric.	Aari Machine Embroidery 10. Set the machine for embroidery How to handle or operate machine • Practicing different line • Straight • Vertical • Horizontal • Curve • Practice on printed fabric • Practice of moss Stitch	 Safety at work Introduction of Machine Parts of Machine Tools and their uses Care and Maintenance of machines Merits & Demerits of Aari Machine Selection of needle &Threadaccording to fabric
Practical 20 Hrs.	Demonstrate Computerized	Computerized Embroidery 11. Machine operation	Types of Needle and their uses and handling.
Theory 10 Hrs.	Embroidery machine with proper knowledge about its tools & precautions.	 12. Change needle in details and its tools. 13. Precautions while changing needle. 14. Needle control according to design 15. Transfer the design on the fabric by selecting suitable transferring types. 16. Load thread on machine. 17. Winding/installing the bobbin 18. Bobbin precaution 	 Needle precautions Types of needle Checking the needle Selection of needle according to fabric Types of Embroidery Threads Brief knowledge of threads Difference between upper
		19. Machine oiling and maintenance.	 thread and bobbin thread. Maintenance of machines and Safe operating principle.
Practical 75 Hrs. Theory 30 Hrs.	Demonstrate the process of digitizing on Software with detail knowledge about machine regarding area and its capabilities.	 20. Software digitizing 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 	Detailed study of digitizing process on software. • 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

		T	
			machine regarding Area and its capabilities.
Practical 20	Arrange &	21. Machine working in	Maintenance of machines and
Hrs.	Demonstrate	simple embroidery and	Safe operating principle
	specialized	specialized embroidery	
Theory	Embroidery on	like	
10 Hrs.	machine to develop	• sequins,	
	design variation	• beads,	
	using sequins,	• stones,	
	cording etc.	Zari thread,	
		metallic thread,	
		 tapping & cording, 	
		Chenille etc.	
		SOFT SKILLS: 75 Hrs.	
Professional	Exhibit effective	COMMUNICATION SKILLS:	
Knowledge Soft			pice, accent, Voice modulation,
Skills - 75 Hrs.	communication skills	pace, Intonation, etc.	once, accent, voice modulation,
JAIIIS - 73 1113.	with logical reasoning		l expressions of non-verbal
	ability and	communication and its analysis	-
	quantitative aptitude	Demo on Strengths and Weakn	
	to maximize	Demo on Motivation, Positive a	
	efficiency in work.	-	arance, Dressing Manners &
	,	Etiquettes.	aranico, aracenig mannere en
		-	ck interview of different types.
		Listening & doubt clarifying etc	
		Case studies on Interview session	ons.
		Communication & Listening Sk	ills Components of effective
		communication, Types of comm	nunication- Oral, Written,
		Reading & body language, Hand	dling of communication, Barriers
		of communication, Listening To	
		verbal communication and its in	- I
		Self-Management& Personalit	-
		Management, SWOT analysis, s	
		Motivation and Image building	•
		Personal Grooming & Hygiene	· ·
		Informal Dressing, Dressing for	
		<u>Techniques of Attending Interview, some statements</u>	
		Don'ts in an interview.	rtages of lifterview. Do s &
		BASIC MATHEMATICAL CALCU	IATION:
			viz. length, area, mass etc. Simple
			ea of a triangle, a circle, a square,
			imple Problems on Comparing
		_	ght, age, ratio, percentage, and
			on profit and loss statement,
			cts. Demonstration of utilization
		of mobile apps for financ	ial transactions. Exercises on
		aptitude/puzzles	

Practice on Types of Charts and Graphs Introduction to units and dimensions of different objects. Perimeter, Area of regular shapes, viz. Triangle, Square, and Circle, rectangle, semicircle etc.

Quantitative Aptitude Introduction, Comparing quantities viz. Speed, age, height, ratio, percentage, weight, and price, etc. Introduction to cost price, sale price, profit, loss and discounts of products. Introduction to online internet banking mechanisms, various modes of payments, cash transactions and associated mobile apps. Concept of insurance and taxes and types. Personal saving and investment mechanism.

<u>Logical reasoning</u> Introduction to logical reasoning. Types of logical reasoning. Principles of logical reasoning with examples on numbers and sequences, arrangement and relations,

<u>Data Interpretation</u> Data analysis and interpretation. Types of variables for different applications. Basic graph types (Bar, Line, PIE Charts).

ENERGY & ENVIRONMENT:

Video demo on different types of energy resources. Conventional & Non-Conventional Energy Resources. Fossil Fuel, Biomass, Bio-Gas, Solar, etc. Public awareness on Energy conservation and use of clean energy.

ENGLISH LITERACY:

Pronunciation of simple words, Diction (use of word and speech) Transformation of sentences, Spellings. Reading and understanding simple sentences about self, work and environment. Construction of simple sentences Writing simple English, Speaking with preparation on self, on family, on friends/ classmates, on work. Role-playing and discussions on current affairs. Job description. Practice of Taking messages, passing on instructions. Practice making Resumes or curriculum vita. Letters of application & referencing to previous communication.

SYLLABUS FORCORE SKILLS

1. Training Methodology (Common for all trades) (270Hrs. + 180Hrs.)

Learning outcomes, assessment criteria, syllabus and Tool List of Core Skills subjects which is common for all the CITS trades, provided separately in www.bharatskills.gov.in./ dgt.gov.in

7. ASSESSMENT CRITERIA

	LEARNING OUTCOME	ASSESSMENT CRITERIA
		TRADE TECHNOLOGY
1.	Design & demonstrate the sample of basic hand stitches and traditional embroidery using various types of colour & design. (NOS: AMH/N9424)	Evaluate the Introduction of Embroidery. Demonstrate sample of hand embroidery stitches. Select the colors & setting of designs. Develop sample of Traditional Embroidery.
2.	Design & Demonstrate sample of Indian Traditional	Explain the Origin of Traditional Embroidery. Demonstrate the Types and Characteristics of Traditional
	Embroideries, appliqué work & traditional needle craft with the knowledge of their origin & history. (NOS: AMH/N9425)	
	7.111.111.1237	Identify the correct motif to develop the design and correct the problem traced. Evaluate Traditional Embroideries on various garments.
3.	Demonstrate the variety of different traditional designs made by Basic Embroidery stitches (contemporary stitches). (NOS:	Identify the correct motif to develop the design of traditional embroidery by Basic Embroidery stitches. Demonstrate appropriate contemporary stitches embroidery for the design. Select suitable raw materials for the design development.
	AMH/N9426)	Develop the design with chain Stitch, Mirror & Dabka work Knotted & Shade work.
4.	Recognize the significance of surface embellishment techniques as value addition with the use of different painting, printing and needle craft techniques. (NOS:	Techniques. Select the place of the design in the fabric. Demonstrate the process and complete the design step by step by
	AMH/N9427)	Demonstrate safety instructions throughout the process.

5.	Analyze the process of Drawing, creating & placing	Demonstrate free hand drawing design with various types of motifs.
	free hand designs of various	Analyze the appropriate color for the design.
	types of motifs. (NOS:	Demonstrate repeat techniques Of Motifs.
	AMH/N9428)	Demonstrate Drawing &placing free hand design on handkerchief
		with Natural, Geometrical, Stylized, Ornamental, Floral, Abstract motif.
6.	Evaluate the design with	Compare the different parts of the zig zag machine.
	variations of Basic	Demonstrate &Prepare to set the machine for embroidery.
	Embroidery stitches using	Test of Fit the frames & Describe functions of zig zag machine
	Zig-Zag Machine with the	embroidery parts.
	help of brief knowledge of	Identify and correct the defects of the zig zag machine.
	its precautions. (NOS:	
	AMH/NO801, AMH/N9429)	
/.	Experiment with Aari	Distinguish the different parts of the Aari Embroidery machine.
	Embroidery machine to	Select suitable needle &Thread According to fabric.
	develop design variation in	Demonstrate & Prepare to set the machine for embroidery.
	Aari using appropriate	Explain How to handle or operate machine to Practice different
	needle & thread according to fabric. (NOS:	lines to create design.
	AMH/N9410)	Explain the process of Care and Maintenance of machines.
	AMITIMOTIO	
8.	Demonstrate Computerized	Describe about various types of needle & their functions with
0.	Embroidery machine with	Precautions& control according to design.
	proper knowledge about its	<u> </u>
	tools &precautions. (NOS:	Explain the process of Load thread on machine. Winding/installing
	AMH/N9414)	the bobbin precaution.
		Evaluate the placement of the design in the fabric.
		Enlarge/reduce the design according to the requirements.
		Transfer the design on the fabric by selecting suitable transferring
		types.
		Develop suitable embroidery stitches for the design.
		Demonstrate embroidery and complete the design step by step by
		applying suitable stitches at the required portions.
		Explain safety instructions throughout the process.
9.	Demonstrate the process of	Explain detail knowledge of machine regarding Area and its
	digitizing on Software with	capabilities.

SURFACE ORNAMENTATION TECHNIQUES (CITS)

detail knowledge about	Explain Digitization process and all commands in software.
machine regarding area and	Demonstrate the Types of stitches using Software digitizing.
its capabilities. (NOS:	Demonstrate the process of Stitch control and smooth runningof
AMH/N9430)	machine as per digitizing.
	Explain the Limitation of software & benefits of using software.
	Demonstrate Information of design on LCD (Liquid Crystal display).
10. Arrange & Demonstrate	Evaluate the scope of application of machineAari art.
specialized Embroidery on	Demonstrate handling or operating machine to form different lines
machine to develop design	to create design.
variation using sequins,	Explain & demonstrate design development using special raw
cording etc. (NOS:	materials.
AMH/N9417)	materials.
11. Exhibit effective	Demonstrate reasonable quantitative aptitude and interpret data
communication skills with	in the field of work
logical reasoning ability and	Demonstrate effective communication skills with logical reasoning
quantitative aptitude to	ability.
maximize efficiency in work.	Describe method of energy conservation and day-to- day
(NOS: MEP/N9443)	contribution to work for optimum utilization of resources.
	Demonstrate English language fluency while carrying out official
	work.
	1

8. INFRASTRUCTURE

LIST OF TOOLS AND EQUIPMENT SURFACE ORNAMENTATION TECHNIQUES - CITS					
A. TRA	INEES TOOL KIT				
1.	Measuring Tape	150 cm	26 Nos.		
2.	Seam Ripper		26 Nos.		
3.	Thimble		26 Nos.		
4.	Wooden Circular Frame	4",8" and 12"	26 each		
5.	Thread cutter		26 Nos.		
6.	Scale plastic	12"	26 Nos.		
7.	Compass		26 Nos.		
8.	Hand Aari Needle (Set of Three)		26 Nos.		
9.	Cotton Fabric		2 m		
B. THE	ORY ROOM				
10	Single desks for trainees with		25 Nos.		
10.	arrangements of keeping Books etc.				
11.	Revolving Chairs without arms		25Nos.		
12.	Faculty Table & Chair set		01 No.		
13.	Desktop computer	CPU: 32/64 Bit i3/i5/i7 or latest processor, Speed: 3 GHz or Higher. RAM:-4 GB DDR-III or Higher, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (Min. 17 Inch. Licensed Operating System and Antivirus compatible with trade related software.	01 No.		
14.	White Magnetic Board with Felt board & accessories		01 No.		
15.	Display Board		02 Nos.		
16.	Storage Almirah		01 No.		
17.	Book Shelf		01 No.		
18.	A/C unit with Stabilizer		As per		
C HAN	D WORK LABORATORY		requirement		
19.	Low seated chair		26 Nos.		
20.	Carpet (Size as required)		01 No.		
21.	Hand Aada (Sizes as per requirement)		01 No.		
۷١.	Air Conditioner		As per		
22.	All Colluitioner		requirement		
23.	Pliers		04 Nos.		

SURFACE ORNAMENTATION TECHNIQUES (CITS)

24.	Embroidery Scissors		13 Nos.
25.	Display Board		02 Nos.
26.	Table (for faculty)		01 No.
27.	Chair		02 Nos.
28.	Almirah		01 No.
29.	Vacuum cleaner		01 No.
30.	Automatic press		02 Nos.
31.	Pressing pad		01 No.
	Pigeon hole Almirah 10 lockers &		
32.	separate locking arrangements for		02 Nos.
	trainees		
33.	Locks for above pigeon hole		16 Nos.
34.	Tracing Table		02 Nos.
35.	Display board		02 Nos.
36.	Notice board		01 No.
37.	Table (for faculty)		01 No.
38.	Chair		02 Nos.
D. TIE	& DYE AND BATIK LABORATORY		
39.	Block printing Table		01 No.
	Gas Stove with Cylinder (new		02 Nos.
40.	connection with security)		
41.	Utensils For Coloring (Assorted Size)		03 Nos.
42.	Plastic Tub (assorted sizes)		06 Nos.
43.	Wooden Spatula		06 Nos.
44.	Table Spoons		12 Nos.
45.	Work Station		03 Nos.
46.	Sink With water inlet and outlet		01 No.
47.	Fire Extinguisher		02 Nos.
48.	Trainer's Table And Chair		01 No.
49.	Block Printing Color Trays		06 Nos.
	Wooden Blocks of Different Designs		100 Nos.
50.	(assorted design assorted sizes)		
51.	Wax Heater For Batik		03 Nos.
E. MA	CHINERY WORK LABORATORY		
52.	Zig-zag Embroidery machine complete set		25 Nos.
53.	Stitching Machine (Motorized)		01 No.
54.	Over lock Machine	3 thread	01 No.
55.	Aari Machine	3 till Cau	05 Nos.
56.	Computerized embroidery machine		01 No.
	(Industrial Model) complete set		OI NO.
57.	Digitizing Software		02 Nos.
58.	Computer Set		02 Nos.
59.	Computer Table Chair set		02 Nos.
60.	Revolving chair for machines		25 Nos.
61.	Air Conditioner		
UI.	All Collultionel		As required

SURFACE ORNAMENTATION TECHNIQUES (CITS)

62.	Pliers	04 Nos.
63.	Display Board	02 Nos.
64.	Table (for faculty)	01 No.
65.	Chair	02 Nos.
66.	Almirah	01 No.
67.	Vacuum cleaner	01 No.
68.	Automatic press	02 Nos.
69.	Pressing pad	01 No.
70.	Pigeon hole Almirah 10 lockers &	02 Nos.
	separate locking arrangements for	
	trainees	
71.	Locks for above pigeon hole	16 Nos.
72.	Scissors	10 Nos.
73.	Pinking Shears	02 Nos.
74.	Cutting Table	02 Nos.
75.	Pressing Stand/Table	02 Nos.
76.	Mannequins (lady)	02 Nos.

