

NSQF LEVEL-5



SECTORS - 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



COMPUTER AIDED EMBROIDERY & DESIGNING

(Non-Engineering Trade)

SECTOR – APPAREL

(Designed in 2023)

Version: 2.0

CRAFT INSTRUCTOR TRAINING SCHEME (CITS)

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Developed By

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1. COURSE OVERVIEW

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. "Computer Aided Embroidery & Designing" CITS trade is applicable for Instructors of "Computer Aided Embroidery & Designing" 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 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

CITS 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.
- Run their own Embroidery unit
- Can progress as Digitizer in relevant Industry

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 onwww.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 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 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 a Demonstration of fairly

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

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

	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 'Computer Aided Embroidery & Designing' trade with seven years of experience in relevant field.		
	Essential Qualification: National Craft Instructor Certificate (NCIC) in 'Computer Aided Embroidery & Designing', in any of the variants under DGT. (Trainees completed National Craft Instructor Certificate in 'Surface Ornamentation Techniques' from the year 2015 to 2020 are also eligible)		
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 Basic Computer at 12th / Diploma level and above).		
3. Training Methodology	B. VoC/ Degree in any discipline from AICTE/ UGC recognized College/ university with two years of 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

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.

Entrepreneur (Computerized Embroidery): Entrepreneur can run business by using Computer Aided Machine Embroidery related knowledge and skills by setting his/ her own unit after searching target market. Can set up the machine with accessories and Produces various designs on fabric or garment by multithread computerized embroidery machine. Identify all necessary supplies required e.g. needle, fabric, stabilizers, and threads etc. Able to manage all the embroidery process for mass production. Able to edit designs and conversions of design. Estimates and fix the cost of embroidered article.

Free Lancer (Embroidery Design Developer): Free Lancer can develop own designs for embroidery irrespective of hand or machine embroidery by using CorelDraw or embroidery digitizing software and share with different embroidery units. Can also develop customized/specialized designs. Able to digitize designs for special embroideries.

Free Lancer (Embroidery Designs by Corel Draw software): Free Lancer can develop own designs for embroidery irrespective of hand or machine embroidery by using coral draw software and share with different embroidery units. Can also develop customized/ specialized designs. Uses the CorelDraw tools to create and edit vector art work for embroidery digitizing. Able to use all the tool sets for develop and transforming a small motif to a large design. Scans sketches and artwork and traces bitmaps to convert them to vector graphics.

Embroidery Digitizer: One who can perform the following functions – Able for transforming pre-existing artwork into machine embroidery design file by using Embroidery software, with a series of commands so that embroidery machine can stitch the art work into a finished work. Able to operate the computerized embroidery machine, single head or multi head with accessories and attachments. Able to develop designs by CorelDraw or embroidery digitizing software. Able to run the machine for specialized work like Sequins, cording, chenille, taping & aari work. Able to develop lace work/ cut work with machine.

Framer-Computerized Embroidery Machine; is responsible for preparation and setup of the embroidery machine for embroidery and carries out hooping and framing operations. The Framer is also responsible for removal of frame and fabric panel once the embroidery has been completed. While the embroidery is done through the computerized embroidery machine, the Framer needs to monitor the progress, and ensure the required quality of embroidery is achieved.

Reference NCO-2015:

2356.100 – Manual Training Teacher/ Craft Instructor.

8153.0701 – Framer-Computerized Embroidery Machine

7533.9900 - Sewers, Embroiderers and Related Workers, Other

Reference NOS:

- AMH/N9405
- AMH/N9406
- AMH/N9414
- AMH/N9415
- AMH/N9416
- AMH/N9417

- AMH/N9409
- AMH/N9410
- AMH/N9418
- AMH/N9423
- 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.

5.1 TRADE TECHNOLOGY

- 1. Develop embroidery design by using CorelDraw software and embroidery digitizing software on basic level. (NOS: AMH/N9405)
- 2. Demonstrate multi head computerized embroidery machine with proper knowledge about its tools. (NOS: AMH/N9406)
- 3. Set up the machine and machine accessories as per requirement and Demonstrate the threading process according to the fabric type, needles and threads used. (NOS: AMH/N9414)
- 4. Identifying defect and their troubleshooting while making designs on machine. (NOS: AMH/N9415)
- 5. Demonstrate the process of digitizing designs on software for mass production on multi head embroidery machine for industrial work. (NOS: AMH/N9416)
- 6. Demonstrate the digitizing process of specialized embroidery designs and set up the attachments. (NOS: AMH/N9417)
- 7. Prepare different specialized embroidery samples with use of special attachments. (NOS: AMH/N9423)
- 8. Create decorative embroidery designs and run the machine to develop various design. (NOS: AMH/N9409)
- 9. Set up the Computerized Aare Embroidery Machine with proper knowledge about parts, maintenance and capabilities. (NOS: AMH/N9410)
- 10. Operate Computerized Aare Embroidery Machine and make Aare embroidery designs with safety. (NOS: AMH/N9410)
- 11. Attain knowledge of placement setting of designs on different articles with machine. (NOS: AMH/N9418)
- 12. Exhibit effective communication skills with logical reasoning ability and quantitative aptitude to maximize efficiency in work. (NOS: MEP/N9443)

6. COURSE CONTENT

SYLLABUS FOR COMPUTER AIDED EMBROIDERY & DESIGNING (CITS TRADE)					
	TRADE TECHNOLOGY				
Duration	Reference Learning Outcome	Professional Skills (Trade Practical)	Professional Knowledge (Trade Theory)		
Practical 25Hrs Theory 10Hrs	Develop embroidery design by using CorelDraw software and embroidery digitizing software on basic level.	 Practice of making design in Corel Draw. Practice of making design in embroidery digitizing software. 	 Knowledge of trade and job prospects Revision of CTS contents 		
Practical 12Hrs Theory 06Hrs	Demonstrate multi head computerized embroidery machine with proper knowledge about its tools.	 3. Identify multi head embroidery machine 4. Recognize Tools and equipment as per requirement 5. Perform Machine oiling and maintenance 	 Describe Different types of computerized embroidery machine (Domestic and industrial model) Identify Related tools and their importance Memorize Importance of machine maintenance Memorize Safe operating principle 		
Practical 35Hrs Theory 12Hrs	Set up the machine and machine accessories as per requirement and Demonstrate the threading process according to the fabric type, needles and threads used.	 6. Practice of Multi head computerized embroidery machine operations Start and shutdown process of machine Loading thread on machine Upper thread tension Winding/installing the bobbin Changing needle 7. Clipping fabric with stabilizer on pantograph/frame 	 Describe the Parts of computerized embroidery machine Recognize machine area and its capabilities Understand the fabric classification/construction/we ight to select the needle and threads accordingly. Describe handling of different fabrics Describe Importance of stabilizers/backing material and sprays 		
Practical 45Hrs Theory 20Hrs	Identifying defect and their troubleshooting while making design on machine.	 8. Load design to multi head embroidery machine Setting of origin Familiarization with control panel 	 Describe machine operating system/software Describe Information of design on control panel (display unit) 		

			 Define Troubleshooting Needle break, thread break, puckering and bird nesting etc.
Practical	Demonstrate the	9. Setting of self-made designs	Define Different digitizing
75Hrs	process of digitizing	for multi head machine and	software.
	designs on software for	practice operating machine	Software.
Theory	mass production on	Repeat set	
26Hrs	multi head embroidery	 Stitch control and smooth 	
	machine for industrial	running of machine	
	work.	10. Practice of making borders and butte designs for running material e.g. saree, suit, bedsheet and dupatta's etc.	
Practical	Demonstrate the	11. Practice of Digitizing process	Describe specialized
60Hrs	digitizing process of	of specialized embroidery	embroidery with suitable
	specialized embroidery	 Sequins work 	needle, designs, fabric,
Theory	designs and set up the	 Cording work 	thread, stabilizers and other
24Hrs	attachments.	 Chenille work 	material etc.
		 Taping work 	
		 Aari embroidery work 	
Practical	Prepare different	12. Practice of making samples	Describe different machine
45Hrs	specialized embroidery	using attachments with	attachments
	samples with use of	safety	Describe Maintenance of
Theory	special attachments.	13. Practice of handling special	machine attachments
20Hrs		attachments with	
		precautions.	
Practical	Create decorative	14. Practice of Digitizing process	Describe types of decorative
88Hrs	embroidery designs and	of decorative embroideries	embroideries
Thoony	run machine to develop	with complex design editing	Lace work
Theory 32Hrs	various designs.	Lace workCutwork	Cutwork
32HI3		CutworkDevelop new fill patterns	Develop new fill patterns
Practical	Set up the Computerized	15. Recognize the Aari	Describe machine operating
12Hrs	Aari Embroidery Machine		system/software
Theory	with proper knowledge	16. Identify Different part of Aari	Describe computerized Aari
06Hrs	about parts,	Embroidery Machine	embroidery machine
	maintenance and	17. Practice of Machine oiling	Describe Parts of machine
	capabilities.	and maintenance	
			Work Area and capabilities of machine
Practical	Operate Computerized	18. Practice of Computerized	Describe computerized Aari

48Hrs Theory 22Hrs	Aari Embroidery Machine and make Aari embroidery designs with safety.	Aari Embroidery Machine operations Start and shutdown process of machine Loading thread on machine Upper thread tension Winding/installing the bobbin Changing needle 19. practice of machine operations on Aari	embroidery with suitable needle, thread, stabilizer and design etc.
Practical 35Hrs Theory 12Hrs	Attain knowledge of placement setting of designs on different articles with machine.	embroidery designs 20. Placement of designs on different made-up and garments 21. Costing of prepared article during the session. Garments/Designs prepared during the session may be checked as per quality aspects and a report may be prepared for the same	 Define the Standard size charts of made-ups and garments Name the Types of design settings Describe Importance of design specification sheet Define Estimation and costing of articles Describe Quality control and quality assurance.
		SOFT SKILLS: 80 Hrs.	41.1.4
Professional Knowledge Soft Skills- 80 Hrs.	Exhibit effective communication skills with logical reasoning ability and quantitative aptitude to maximize efficiency in work.	Intonation, etc. Study of different pictorial expreand its analysis. Demo on Strengths and Weakness Demo on Motivation, Positive attive Practice on personal appearance, Practice on attending of mock into doubt clarifying etc. Case studies on Interview sessions Communication & Listening Skills	tude. Dressing Manners & Etiquettes. erview of different types. Listening & S. Components of effective inication- Oral, Written, Reading & nunication, Barriers of & Speaking Tools, Non-verbal ce. Development Self-Management, management.

<u>Personal Grooming & Hygiene</u> Presentation of Self, Formal & Informal Dressing, Dressing for Occasions.

<u>Techniques of Attending Interviews</u> Interview & its types.

Preparation for the interview, stages of interview. Do's & Don'ts in an interview.

BASIC MATHEMATICAL CALCULATION:

Conversions of different units viz. length, area, mass etc. Simple Problems on Perimeter and area of a triangle, a circle, a square, rectangle, semicircle etc. Simple Problems on Comparing quantities, weight, speed, height, age, ratio, percentage, and price, etc. Simple calculation on profit and loss statement, discount calculations of products. Demonstration of utilization of mobile apps for financial 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.

Logical reasoning Introduction to logical reasoning.

Types of logical reasoning. Principles of logical reasoning with examples on numbers and sequences, arrangement and relations, Data Interpretation 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.

ach trainee shall prepare a Garment/Made Up showing different embroidery skills learnt during the session as a project.

Note:

1. Trainees Tool kit may be treated as consumables in respect of trainees actually completing the course of

- one-year duration.
- 2. Experts from the Industry may be called for special lectures and demo's as and when required.
- 3. Periodical training of trainers for upgrading/updating their knowledge base, training skills and vision to form the career path of their trainees should be mandatory. This training shall also include discussion on changes in course material whenever they happen.
- 4. The trainers will have the liberty to choose the sequence of contents of the course material to be taught by way of planning weekly/ monthly schedules well in advance, so utilization/practice on machinery at maximum level can be attained.
- 5. With the ever evolving technology, the specification of tools and equipment keep changing rapidly. Whenever tools and equipment are to be procured, the purchase committee should ensure to go for latest version of equipment instead of sticking to what is specified in syllabus, which normally are outdated.
- 6. There should be a provision for up gradation of the software whenever upgraded version of software is launched by the company irrespective of life / validity of the software in use.
- 7. After the final examinations, each trainee will be required to go for a minimum 15 days ON THE JOB TRAINING after completion of which, the trainee will be required to submit copy of the certificate to the Institute.

SYLLABUS FOR CORE SKILLS

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

Learning outcomes, assessment criteria, syllabus and Tool List of above Core Skills subjects which is common for a group of trades, provided separately in www.bharatskills.gov.in

7. ASSESSMENT CRITERIA

	LEARNING OUTCOMES	ASSESSMENT CRITERIA
1.	Develop embroidery	Develop designs in CorelDraw software and embroidery digitizing software
	design by using CorelDraw software and	Follow the designing principal.
_	embroidery digitizing	Maintain quality as per requirement.
	software on basic level.	
	(NOS :AMH/N9405)	
	Domonotrato multi bood	
2.	Demonstrate multi head computerized embroidery machine with proper	Identify the embroidery tools
		Use the tool with safely. Handle tools and equipment with safe practical exercise.
	knowledge about its tools.	Explain the difference between single head and multi head embroidery
	(NOS : AMH/N9406)	machine.
		Explain benefits of multi head embroidery machine.
		Practice of Machine oiling and maintenance on regular basis.
3.	Set up the machine and	Identify the parts of multi head computerized embroidery machine.
	machine accessories as	Perform start and shutdown process of machine.
	per requirement and Demonstrate the threading	Identify defect of needle.
	process according to the	Identify and use tools to remove the needle with safety precautions.
	fabric type, needles and threads used. (NOS :AMH/N9414)	Select needle according to the fabric.
		Fix needle in correct position and place.
		Wind bobbin with correct tension of thread.
		Identify machine part to install the bobbin case.
		Check the thread tension of bobbin case and clean if needed.
		Install bobbin case in machine with precautions.
		Identify upper thread path of machine.
		Identify and use tools to load thread on to the machine and follow the
		thread path. Follow the safety instructions throughout the process.
		, , ,
4.	Identifying defect and their	Open the software (Embroidery Software) and Select Design according to
	troubleshooting while	requirement. Load design to multi head embroidery machine.
	making design on machine. (NOS :AMH/N9415)	Select correct design, needle, frame and stabilizer.
		Do upper and lower threading of the machine.
		Select colors and color combination.
		Decide placement of the design in the fabric.
		Fix fabric with appropriate stabilizer properly in the embroidery
		frame/pantograph.
		Set the origin of design.
		Check all things before start.
		Run machine and start embroidery.

		Monitor and complete the design.
		Use control unit/panel whenever required.
		Trouble shoots the machine whenever required.
		Remove the frame trim extra thread and press the embroidered fabric neatly.
		Maintain hygiene.
		Working area should be clean and clutter free.
		Follow safety instructions throughout the process.
5.	Demonstrate the process of digitizing designs on	Open digitizing software and do required design such as border and buttes etc.
	software for mass	Perform digitizing process using all commands in software.
	production on multi head embroidery machine for	Set repeats of buttes and borders designs for running material like bedsheet, suits, saree and dupatta's etc.
	industrial work.	Prepare design for production of suit/saree.
	(NOS: AMH/N9416)	Follow designing principle.
		Select suitable stitches for the design.
		Apply suitable colors to the design by following color scheme.
		Run design on multi head embroidery machine and produce running material such as suit, saree and dupattas etc.
		Maintain sequence of all elements of designs.
		Designs should run smoothly on machine.
		Maintain quality as per requirement.
		Follow safety instructions throughout the process.
6.	Demonstrate the digitizing process of specialized	Perform digitizing process of specialized embroideries such as sequins work, cording work, taping work, chenille work and Aari work.
	embroidery designs and	Set up special attachments according to the requirements.
	set up the attachments. (NOS: AMH/N9417)	Designs should run smoothly on machine.
		Maintain quality as per requirement.
		Follow safety instructions throughout the process.
7.	Prepare different specialized embroidery	Run machine on specialized embroideries such as sequins work, cording work, taping work, chenille work Handle special attachments with safe practical exercise.
	samples with use of special attachments. (NOS:AMH/N9423)	·
		Designs should run smoothly on machine.
		Maintain quality as per requirement.
		Follow the safety instructions throughout the process.
8.	Create decorative embroidery designs and	Perform digitizing process of decorative embroideries such as FSL work and cut work.
	run the machine to develop various designs. (NOS :AMH/N9409)	Create new fill patterns.
		Do editing wherever required.
		Designs should run smoothly on machine.
		Maintain quality as per requirement.
		Follow safety instructions throughout the process.

9.	Set up the Computerized	Identify parts of computerized Aari embroidery machine.
	Aari Embroidery Machine with proper knowledge about parts, maintenance and capabilities. (NOS:AMH/N9410)	Oiling and maintenance of machine.
10	Operate Computarized	Colort design for Apri embraidens
10.	Operate Computerized Aari embroidery Machine	Select design for Aari embroidery
	and make Aari embroidery	Load design on to the Aari machine.
	designs with safety.	Run machine and Prepare garment/article using different embroidery stitches and suitable color scheme.
	(NOS :AMH/N9410)	Trouble shoots the machine whenever required.
		Designs should run smoothly on machine.
		Follow safety instructions throughout the process.
		Maintain quality as per requirement.
		Working area should be clean.
11.	Attain knowledge of placement setting of designs on different articles with machine. (NOS:AMH/N9418)	Select design for a garment/article.
		Decide placement of design.
		Setting of design according to requirement.
		Explain different types of settings of design.
		Prepare costing of given embroidered products.
		Produce an estimate and cost sheet.
12	2. Exhibit effective communication skills with logical reasoning ability and quantitative aptitude to maximize efficiency in work. (NOS:MEP/N9443)	Demonstrate reasonable quantitative aptitude and interpret data in the field of work
		Demonstrate effective communication skills with logical reasoning ability.
		Describe method of energy conservation and day-to- day contribution to
		work for optimum utilization of resources. Demonstrate English language fluency while carrying out official work.

8. INFRASTRUCTURE

LIST OF TOOLS AND EQUIPMENT FOR COMPUTER AIDED EMBROIDERY & DESIGNING - CITS					
For batch of 25 candidates					
S No.					
A. TRA	A. TRAINEES TOOL KIT (consumable item)				
1.	Measuring Tape	150 cm	26 (25+1) Nos.		
2.	Seam Ripper		26 (25+1) Nos.		
3.	Thimble		26 (25+1) Nos.		

4.	Thread cutter		26 (25+1) Nos.			
5.	Scale plastic	12"	26 (25+1) Nos.			
6.	Eraser, Pencil, Sharpener		26 (25+1) Nos.			
7.	Water erasable marking Pen		26 (25+1) Nos.			
B. THEO	B. THEORY ROOM					
8.	Single desks for trainees with arrangements of keeping Books etc.		25 Nos.			
9.	Revolving Chairs without arms		25 Nos.			
10.	Faculty Table & Chair set		01 No.			
11.	Desktop computer with UPS	CPU: 64 Bit, i7 or latest processor, Speed: 3 GHz or Higher. RAM: -8 GB DDR-III or Higher, NVidia Graphics Card 2GB 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's.	01 No.			
12.	Computer Table and Chair	riduc relaced software s.	01 No.			
13.	Multimedia Projector with accessories		01 No.			
14.	White Magnetic Board with Felt board & accessories		01 No.			
15.	Display Board		01 No.			
16.	Notice board		01 No.			
17.	Storage Almira		01 No.			
18.	Book Shelf		01 No.			
19.	A/C unit split type with Stabilizer	2 TR capacity	As per requirement			
C. MACH	C. MACHINE LAB					
20.	Multi Head Computerized Embroidery Machine with necessary attachments (Sequins, Cording, Taping, Beads Etc.) Accessories Hoops and UPS	Minimum 4 head	01 No.			
21.	Computerized Aari Embroidery Machine with UPS	Minimum 2 head	01 No.			

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22.	Single head multi needle computerized embroidery machine		01 No.
	with accessories and UPS		
23.	Single Needle Lock Stitch Industrial		01 No.
23.	Sewing Machine with necessary		011101
	attachments (Zip Fixing, Picot,		
	Gathering Foot etc.)		
24.	Over Lock Machine	3 Thread	1 No.
25.	Scissors	25 cm	5 No.
26.	Pinking Shears		5 No.
27.	Steam Iron		01 No.
28.	Pressing Stand (Metal)		1 No.
29.	Cutting Tables		02 No.
30.	Pigeon Hole Almirah10 Lockers & Separate Locking Arrangements For Trainees		2 Nos.
31.	Locks For Above Pigeon Hole		20 Nos.
32.	Chair/Stool For Sewing Machines		2 No.
33.	Almira		2 No.
34.	Thread Storage Box/stand		2 Nos.
35.	A/C unit split type with Stabilizer	2 TR capacity	As per
	Diaglas, Basad		requirement
36.	Display Board		01 o.
37.	Notice board		01 o.
38.	Mannequins	lady	02 os.
39.	Garment steamer		1 no.
40.		Processor-i7 or above, Ram -	01 No. for each
	Laptop	8GB or above, Graphics 2 GB	faculty
		or above 1 TB Hard disk 15.6	
		inch screen	
D. COMF	PUTER LAB TOOLS & EQUIPMENT		
41	Desktop computer with UPS	CPU: 64 Bit, i7 or latest	25+1 Nos.
		processor, Speed: 3 GHz or	
		Higher, RAM: -8 GB DDR-III	
		or Higher, NVidia Graphics	
		Card 2GB 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.	
42.	Trade Related Software like Wilco, Wings, CorelDraw etc.		1 each. for each system 25+1
43.	Computer Tables & Chairs		25+1 Nos.
44.	Projector With Accessories		01 o.
45.	A3 Size laser jet Color Printer		01 No.
46.	A3 color Scanner (minimum 1200), flatbed		01 o.
47.	Printer Table		01 o.
48.	Scanner Table		01 o.
49.	Hard Disk	2 TB	01 o.
50.	Book Shelf		01 o.
51.	Notice Boards		01 o.
52.	Display Boards		01 o.
53.	Faculty Table & Chair		01 o.
54.	Almira		01 o.
55.	A/C Unit Split Type With Stabilizer		As per requirement
56.	LAN Connectivity		As per requirement

Note: -

^{1.} Internet facility is desired to be provided in the class room.

