

# **SEWING TECHNOLOGY**

**NSQF LEVEL-6** 



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



(Non-Engineering Trade)

**SECTOR – APPAREL** 

(Revised in 2019)

Version 1.1

### **CRAFT INSTRUCTOR TRAINING SCHEME (CITS)**

**NSQF LEVEL - 6** 

Developed By
Government of India
Ministry of Skill Development and Entrepreneurship

**Directorate General of Training** 

### **CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE**

EN-81, Sector-V, Salt Lake City, Kolkata – 700 091 www.cstaricalutta.gov.in

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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. "Sewing Technology" CITS trade is applicable for Instructors of "Sewing Technology" 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 admission details are made available complete 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)	640
	Professional Knowledge (Trade Theory)	240
2.	Soft Skills	
	Practical	100
	Theory	100
3.	Training Methodology	
	TM Practical	320
	TM Theory	200
	Total	1600

#### 2.3 PROGRESSION PATHWAYS

- Can join as anInstructor 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 <a href="https://www.bharatskills.gov.in">www.bharatskills.gov.in</a>.
- 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 DGTat 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

S				Internal	Full	Pass Marks	
No.	Suk	oject	ect Marks		Marks	Exam	Internal Assessment
1.	Trade	Trade Theory	100	40	140	40	24
Technology	Trade Practical	200	60	260	120	36	
2	2. Soft Skills	Practical	50	25	75	30	15
2.		Theory	50	25	75	20	15
2	Training	TM Practical	200	30	230	120	18
3.	Methodology	TM Theory	100	20	120	40	12
	Total	Marks	700	200	900	370	120

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 • Demonstration of *fairly good* skill to candidate should be well versed with establish a rapport with audience, instructional design, implement learning presentation in orderly manner and programme and assess learners which establish as an expert in the field. demonstrates attainment of an acceptable Average engagement of students for **standard** of crafts instructorship with learning and achievement of goals while occasional guidance and engage students undertaking the training on specific topic. by demonstrating good attributes of a • A fairly good level of competency in trainer. 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 performance in this grade, the • Demonstration of **good** skill to establish a candidate should be well versed with rapport with audience, presentation in instructional design, implement learning orderly manner and establish as an expert

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.

in the field.

- Above average engagement of students for learning and achievement of goals while undertaking the training on specific topic.
- Agood 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 ahigh 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.
- Goodengagement 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	Sewing Technology (CITS)
Name of the frade	
Tradecode	DGT/4011
NCO – 2015	3122.3500, 2356.0100
NSQF Level	Level-6
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 Technologyfrom recognized Board/ University.  OR  Diploma in Costume Designing & Dress Making /Fashion Designing/Fashion Technology/ Apparel Technology / Garment Fabrication Technologyfrom recognized Board/ University.  OR  National Trade Certificate in the Sewing Technologyor related trades.  OR  National Apprenticeship Certificate in the Sewing Technologyor related trades.
Minimum Age	18 years as on first day of academic session.
Space Norms	120 Sq. m
Power Norms	8 KW
Instructor's Qualification	ı for
1. Sewing Technology (CITS) Trade	B.Voc/Degree in Costume Designing & Dress Making /Fashion Designing/Fashion Technology/ Apparel Technology / Garment Fabrication Technologyfrom AICTE/ UGC recognized Board / University with two years experience in relevant field.  OR  Diploma (Minimum 2 Years)in Costume Designing & Dress Making /Fashion Designing/Fashion Technology/ Apparel Technology/ Garment Fabrication Technologyfrom recognized Board/ University or relevant Advanced Diploma (Vocational) from DGT with five years experience in relevant field.  OR  NTC/ NAC passed in Sewing Technology tradewith sevenyears experience in relevant field.

		Essential Qualification:						
		Relevant Nati	onal Craft I	nstructor Cert	ificate (NCIC)	inSewing		
		Technology trad	de, in any of th	e variants under	DGT.			
2. Soft Skills	5	MBA/ BBA / Ar	ny Graduate/ D	iploma in any d	disciplinefrom A	AICTE/ UGC		
		recognized Coll	ege/ university	, with Three ye	ars' experience	e and short		
		termToT Course	e in Soft Skills f	rom DGT institu	tes.			
		(Must have stu	died English/ C	Communication	Skills and Basi	c Computer		
		at 12th / Diplon	•			•		
3. Training		B.Voc/ Degree	in any discipli	ne from AICTE/	UGC recogniz	ed College/		
Methodo	logy	university with	two years expe	erience in trainir	ng/ teaching fie	ld.		
				OR		ļ		
		Diploma in any	discipline from	n recognized bo	oard / Universi	ty 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		21 Years						
Instructor	Age IOI	21 (Cars						
	of training or	on Hourly basis: (Indicative only)						
Distribution	or training or	i Hourly basis:	(indicative onl	y)				
Total Hrs	Trade	e Trade Soft Skills Training Methodo				hodology		
/week	Practical	Theory	Practical	Theory	Practical	Theory		
40 Hours	16 Hours	6 Hours	2.5 Hours	2.5 Hours	8 Hours	5 Hours		

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### 4. JOB ROLE

#### **Brief Description of Job Roles:**

Supervisors and Foremen, Tailoringand Dress Making; Supervisor and Foreman, Tailoring and Dress Making supervises and guides 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. Checks work and directs or makes alterations where necessary and keeps machines and equipment in working order. Maintains production register and delivers goods against receipts. May copy or develop new designs to boost sale. May train new entrants. May be designated according to section or work supervised. (Excluded are Garment Designers and Cutters described elsewhere).

Manual Training Teacher/Craft Instructor; instructs students in ITIs/VocationalTraining Institutes in respective trades as per defined job role. Imparts theoretical instructions for the use of tools& equipments 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) 3122.3500 Supervisors and Foremen, Tailoring and Dress Making.
- b) 2356.0100 Manual Training Teacher/Craft Instructor.

### 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. Appraise Drafting, Pattern making, Grading, Draping & Stitching.
- 2. Demonstrate pattern making using different software tools like Corel draw, Adobe Photoshop etc.
- 3. Check Drafting of Children Upper body & Lower Body Block.
- 4. Analyze Ladies Body Block & Trousers Block.
- 5. Assess Digitizing & Grading of Patterns.
- 6. Review designing of Skirts, Sleeves, Collars & Developing Patterns with Spec Sheet, Marker Tools & 3 D Tools.
- 7. Explain Apparel enterprises & Apparel Market requirements.
- 8. Ensure Quality control & inspection in garment industry.
- 9. Demonstrate Project Work on design/ development of pattern and garment stitching.
- 10. Demonstrate different sewing machines, industrial sewing machines and their functions including motorized industrial sewing machine.
- 11. Illustrate Pattern Making, Cutting, Stitching & finishing of Designer Blouses, Shirt/Safari, Designer Suits etc.
- 12. Demonstrate Pattern making for special needs of Jacket & Vest coat (Including Lining) etc.
- 13. Check the measurement, stitching etc. of finished Garments.
- 14. Demonstrate project on theme garment as per market demand.

### 6. COURSE CONTENT

	SYLLABUS FOR SEWING TECHNOLOGY – CITS TRADE						
			TRADE TECHNOLOGY				
Duration	Reference Learning Professional Skills Outcome (Trade Practical)		Professional Skills (Trade Practical)	Professional Knowledge (Trade Theory)			
Practical	Appraise Drafting,	1.	Revise the CTS contents.	Revision of the CTS contents.			
16 Hrs	Pattern making,	2.	Demonstrate Drafting,	Concepts of Drafting, Pattern			
	Grading, Draping &		Pattern making, Grading,	making, Grading, Draping &			
Theory	Stitching.		Draping & Stitching.	Stitching.			
06 Hrs							
Practical	Demonstrate pattern	3.	Familiarize with the	Trade Knowledge Role of CAD in			
64Hrs	making using		working of computer, Paint				
_	different software		and different software like	Basic knowledge about			
Theory	tools like Corel draw,		Corel draw, Adobe	' ' '			
24Hrs	Adobe Photoshop		Photoshop etc.	Paint, Corel draw and Adobe			
	etc.			Photoshop,etc.			
				Knowledge about importance of			
				pattern. Safety precautions in garment			
				industry.			
		4	Create patterns with the	·			
		''	help of Corel draw, Adobe	·			
			Photoshop (Latest	,			
			Software) etc.	Layout)			
				Introduction of 3D			
				Introduction of Digitizer (Digitize			
				pattern)			
				Introduction of Plotter (Print			
				Pattern)			
				Scope			
				Importance.			
		5.	Software tools for Pattern	Starting of System			
			Making	SoftwareScreen Menu.			
		6.	Familiarize with menu	Details about the Tool			
			&Commands –	BarsCommand details.			
			<ul><li>New Piece</li><li>Select Tool</li></ul>				
			<ul><li>Point marking</li><li>Guide line</li></ul>				
			<ul><li>Guide line</li><li>Delete</li></ul>				
			• Delete				

		Move Piece
		• Save
		• New
		Open
		Help
		• Zoom
		• Cut
		• Copy
		Paste
		Matching Curves (walk)
		Tool)
		Mirror Line
		Seams
		Select & move
		internals
		Inserting Text
		Rotate piece
		Measuring
		Adding fullness
		Cut, Join, Build & Trace
		piece
		Fold piece
		Insert, Edit, close & cut
		Dart
		Insert Pleat
Practical	Check Drafting of	7. Analyze Drafting of Children Size Charts & Bodies
32 Hrs	Children Upper body	Children Upper body Block Block.
	& Lower Body Block.	8. Analyze Drafting of Detailing of Tools.
Theory		Children Lower Body Block
12Hrs		Base line -
		change/Rotate
		Adding Fullness
		Change corner
		Insert Button
		Add Notch
		Align points, Circle, Arc
		& Wave
		Trace & Trim
		Extend, Join & split
		Contour
		Swap segment

Practical 16 Hrs Theory 06 Hrs	Analyze Ladies Body Block & Trousers Block.	<ul> <li>Demonstration of Cutting, Joining,</li> <li>Creating lines &amp; Parallels of drafts.</li> <li>Check Ladies Body Block &amp; Trousers Block.</li> </ul>	Ladies measurement chart & Ladies Blocks.
Practical 32 Hrs Theory 12Hrs	Assess Digitizing & Grading of Patterns.	<ul> <li>Assess Digitizing of Pattern</li> <li>Working with File, Edit, Piece, Design, Tool, View &amp; Help menu.</li> <li>Designing with darts.</li> <li>Insertion of Style Lines.</li> <li>11. Assess Grading of Patterns</li> </ul>	Digitizing - Tools & Importance.  Grading
Dunation	Daview designing of		<ul><li>Size Table</li><li>Grading Table</li><li>Grading Menu</li></ul>
Practical 80 Hrs	Review designing of Skirts, Sleeves, Collars & Developing	12. Examine drafting of Skirt  Block Design insertion to the Block.	Designing in Skirts
Theory 30Hrs	Patterns with Spec Sheet, Marker Tools & 3 D Tools.	13. Monitor developing of Sleeve Blocks & Insertion of Design Developing Collars.	Designing in Sleeves & Collars.
		14. Developing Patterns with Spec Sheet.	Spec Sheet Export Import of files Printing & plotting commands X & Y axis.
		15. Demonstrate Marker Tools, making marker General ToolsInformation. 16. Piece, all size, Global 17. Placement of pieces 18. Fabric Pattern 19. Measure Tool 20. Plot order 21. Flaw Alignment  Shoot Flip & Rotate Auto Nesting	<ul> <li>Marker</li> <li>Introduction</li> <li>Knowledge about spreading techniques and equipment.</li> <li>Marker modes and marker efficiency</li> <li>Knowledge about spreading and material handling.</li> </ul>

		T	1
		Batch	
		• Merge	
		Import Export	
		22. 3 D Tools	Introduction to 3D
		23. Model Property	Use of 3D
		24. Open, Save & Customize.	Tools of 3D software
		25. Place cloth, Clear cloth,	Draping technique
		Single	Brief description of Model
		26. Draping, Show & Hide.	drawing, draping and grading on
		27. Stitch Property	dummies.
		28. 3 D Property	
Practical	Explain Apparel	29. Monitor exercise on each	Apparel enterprises
32 Hrs	enterprises &	topic, collection of	Apparel career, consulting,
	Apparel Market	samples, survey work in	reporting, buying offices,
Theory	requirements.	market & industry,	promotion agencies, organization
12Hrs		Preparation of sample	& trade association in apparel
		folders & survey reports.	industry.
		, , ,	Apparel Market
			Sourcing, market, changing trends
			in fashions, domestic
			&international market, primary &
			secondary market. Retail
			business, retail management,
			fashion retailing, departmental
			stores, chain stores, shopping
			centers & mall Globalization.
Practical	Ensure Quality	Findings	Quality control
32Hrs	control & inspection	30. Identification of defects in	Introduction
32113	·	fabrics & accessories	
Theory	in garment industry.		<ul><li>Meaning</li><li>Need</li></ul>
Theory		31. Measurements checking as	
12Hrs		perSpec. Sheet.	Cost of quality control system
		32. Preparation of cost Sheet.	• Concepts
			Identification of critical
			factor.
		33. Exercise on various sheets	Inspection
		used in garment export	Definition,need, planning
		house by Quality	place, time , method
		Controllers.	Type of Inspection
			Stages of inspection
			Role of inspector
			Benefits of quality control in
			garment industry

Practical 32 Hrs Theory 12Hrs	Demonstrate Project Work on design/ development of pattern and garment stitching.	Trainees will design/ develop pattern and stitch garments on the basis of skills developed under CTS & CITS and present the same. Selection of the projects will be according to the need of the industries as	<ul> <li>Quality assurance system</li> <li>Statistical quality control process</li> <li>TQM.</li> <li>Various pattern development and garment stitching.</li> </ul>
		well as the choice & interest of the trainees.	
Practical 64 Hrs Theory	Demonstrate different sewing Machines and their functions including	34. Revise different sewing machines, their working, stitches, seams, sewing needles, working aids etc.	Introduction & scope of Apparel Industry, sewing machines, their models, parts and their functions. Ergonomics for effective work.
24Hrs	motorized industrial sewing machine.	35. Demonstrate samples on motorized industrial sewing machine.  36. Machinery & EquipmentBasic Sewing machines for  General Sewing  Over locking  Safety Stitching  Blind Stitching  Button Holes  Bar Tacking  Button Sewing  Double Needle  Zigzag machine	<ul> <li>Technical Terms &amp; their use in the trade</li> <li>Safety during work</li> <li>First Aid</li> <li>First Aid Box</li> <li>Fusing Technology</li> <li>Sewing Technology</li> <li>Components of Sewing</li> <li>Stitches &amp; Seams</li> <li>Feed System</li> <li>Pressure Foot</li> <li>Throat Plate</li> <li>Feed Dog</li> <li>Needles</li> <li>Threads</li> <li>Types of Motor &amp; Belt</li> </ul>
Practical 144Hrs Theory 54Hrs	Illustrate Pattern Making, Cutting, Stitching & finishing of Designer Blouses, Shirt/Safari, Designer Suits etc.	37. Show Pattern Making, Cutting, Stitching & finishing of Designer Blouses as per Fashion.	<ul> <li>Estimation of cloth for</li> <li>Different width</li> <li>Different Size</li> <li>Different Fabric Pattern</li> <li>Cutting Technology</li> <li>Drafting of Ladies Blouse</li> </ul>
	Suits etc.	38. Explain Pattern Making,	Drafting of Ladies Blouse     Drafting and Pattern Making of

		Cutting, Stitching &	Shirt/Safari Shirt/ Pathani Shirt
		finishing of Shirt/Safari	Special Sewing Machines
		Shirt/Pathani Shirt as per	Work Aids
		Fashion.	Machine Beds
			Machine Tables
			Work Chairs
			Machine Attachments
		39. Demonstrate Cutting,	Drafting & Pattern Making of
		Stitching & Finishing of	Shirt
		following	Bush shirt
		T Shirt	T Shirt
		Safari Shirt	Safari Shirt
		Pathani Suit	Pathani Shirt
		40. Show Pattern Making,	Drafting of Ladies Shirt
		Cutting, Stitching &	Trimmings & Accessories
		finishing of Designer Suits	Estimation of Material for
		according to latest trend &	different width, size & Texture
		innovated idea.	Garniture for a garment
		iiiiovatea iaea.	Costing of Garment
		41. Explain Cutting, Stitching &	Drafting & Pattern Making of
			Shorts
		Finishing of anyone -	
		• Shorts	English/One piece Trousers     Associated Trousers
		American(Two Piece	American/Two Piece Trousers
		Trouser)	• Jeans
Practical	Demonstrate Pattern	42. Demonstrate Pattern	Balance of Garment according to
48Hrs	Making for special	Making for special Needs -	Structure of Human Body &
	needs of Jacket &	<ul> <li>Deformed figures</li> </ul>	itsimportance
Theory	Vest coat (Including	Abnormal figures	Deformed Figure
18Hrs	Lining) etc.	43. Show Pattern Making of	Drafting of Nehru Jacket & Vest
		Jacket & Vest coat	Coat various style.
		(Including Lining)	
		44. Explain Pattern Making of -	Drafting of Coat -
		<ul> <li>Single Breast</li> </ul>	Single Breast
		<ul> <li>Double Breast</li> </ul>	Double Breast
		<ul><li>Sherwani/Achakan</li></ul>	Sherwani /Achakan
Practical	Check the	45. Check Garments in respect	Accessories for Jackets & Coats.
16 Hrs	measurement,	of-	Inspection of Garments
	stitching etc. of	<ul> <li>Measurements</li> </ul>	Finishing of Garments
Theory	finished Garments.	Stitching	
06 Hrs		Stains	
		Defects	
Practical	Demonstrate project		Scope of applying themes while
			TIPE OF SPENING CHEMICS WITH

32 Hrs	on theme garment as	theme and s	elect garme	ent as	stitching	garments.	Existing
	per market demand.	per market	demand	and	themes for	preparing gar	ments.
Theory		develop th	e same	with			
12Hrs		innovative	ideas	and			
		creativity.					
	1						

### **SYLLABUS FOR CORE SKILLS**

- 1. Soft Skills (Common for all Non-Engineering CITS trades) (100 Hrs + 100Hrs)
- 2. Training Methodology (Common for all trades) (320Hrs + 200Hrs)

Learning outcomes, assessment criteria, syllabus and Tool List of above Core Skills subjects which is common for a group of trades, provided separately in <a href="https://www.bharatskills.gov.in">www.bharatskills.gov.in</a>

### 7. ASSESSMENT CRITERIA

TRADE TECHNOLOGY  1. Appraise Drafting, Pattern making, Grading, Draping & Stitching.  Demonstrate Drafting.  Show Pattern making.  Using different software tools like Corel draw, Adobe Photoshop etc.  Familiarize with variousaspects of CAD operations.  Explore different softwares likePaint, Corel draw and Adobe Photoshop etc.  Familiarize with variousaspects of CAD operations.  Explore different softwares likePaint, Corel draw and Adobe Photoshop etc.  Foint out Safety precautions in garment industry.  Create Pattern, Grade Pattern by PDS.  Create Layout by Marker.  Digitize pattern by Plotter.  Select & demonstrate various Software tools for Pattern Making.  3. Check Drafting of Children Upper body & Lower Body Block.  Fint Pattern by Plotter.  Select & demonstrate various Software tools for Pattern Making.  Check Drafting of Children Upper body & Lower Body Block.  Change/Rotate Base line, add Fullness, change corner, insert Button, Add Notch, Align points, Circle, Arc & Wave.  Trace & Trim, Extend, Join & split Contour.  Swap segment.  Demonstrate Cutting, Joining.  Create lines & Parallels of drafts.  4. Analyze Ladies Body Block & Trousers Block.  Show Ladies Body Block.  Analyze Trousers Block.  Show Ladies measurement.  Monitor Chart & Ladies Blocks.  5. Assess Digitizing & Grading of Patterns.  Explore File, Edit, Piece, Design, Tool, View & Help menu.  Design with darts.  Insert Style Lines.  Assess Grading of Patterns.	LEARNING OUTCOME		ASSESSMENT CRITERIA		
Show Pattern making.  Demonstrate Grading.  Illustrate Draping & Stitching.  2. Demonstrate pattern making using different software tools like Corel draw, Adobe Photoshop etc.  Familiarize with variousaspects of CAD operations.  Explore different softwares likePaint, Corel draw and Adobe Photoshop etc.  Familiarize with variousaspects of CAD operations.  Explore different softwares likePaint, Corel draw and Adobe Photoshop (Latest Software) etc.  Point out Safety precautions in garment industry.  Create Patterns with the help of Corel draw, Adobe Photoshop (Latest Software) etc.  Point out Safety precautions in garment industry.  Create Pattern by Plotter.  Digitize pattern by Digitizer.  Print Pattern by Plotter.  Select & demonstrate various Software tools for Pattern Making.  3. Check Drafting of Children  Upper body & Lower Body Block.  Change/Rotate Base line, add Fullness, change corner, Insert Button, Add Notch, Align points, Circle, Arc & Wave.  Trace & Trim, Extend, Join & split Contour.  Swap segment.  Demonstrate Cutting, Joining.  Create lines & Parallels of drafts.  4. Analyze Ladies Body Block & Check Ladies Body Block.  Analyze Trousers Block.  Show Ladies measurement.  Monitor Chart & Ladies Blocks.  5. Assess Digitizing & Grading of Pattern.  Explore File, Edit, Piece, Design, Tool, View & Help menu.  Design with darts.  Insert Style Lines.			TRADE TECHNOLOGY		
Demonstrate Grading.   Illustrate Draping & Stitching.	1.	Appraise Drafting, Pattern	Demonstrate Drafting.		
Illustrate Draping & Stitching.		making, Grading, Draping &	Show Pattern making.		
2. Demonstrate pattern making using different software tools like Corel draw, Adobe Photoshopetc.  Photoshop etc.  Explore different softwares likePaint, Corel draw and Adobe Photoshopetc.  Create patterns with the help of Corel draw, Adobe Photoshope (Latest Software) etc.  Point out Safety precautions in garment industry.  Create Pattern, Grade Pattern by PDS.  Create Layout by Marker.  Digitize pattern by Plotter.  Select & demonstrate various Software tools for Pattern Making.  3. Check Drafting of Children Upper body & Lower Body Block.  Check Drafting of Children Lower Body Block.  Check Drafting of Children Lower Body Block.  Change/Rotate Base line, add Fullness, change corner, Insert Button, Add Notch, Align points, Circle, Arc & Wave.  Trace & Trim, Extend, Join & split Contour.  Swap segment.  Demonstrate Cutting, Joining.  Create lines & Parallels of drafts.  4. Analyze Ladies Body Block & Trousers Block.  Show Ladies measurement.  Monitor Chart & Ladies Blocks.  5. Assess Digitizing & Grading of Patterns.  Explore File, Edit, Piece, Design, Tool, View & Help menu.  Design with darts.  Insert Style Lines.		Stitching.	Demonstrate Grading.		
using different software tools like Corel draw, Adobe Photoshop etc.    Create patterns with the help of Corel draw, Adobe Photoshop etc.			Illustrate Draping & Stitching.		
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Photoshop etc.  Create patterns with the help of Corel draw, Adobe Photoshop (Latest Software) etc.  Point out Safety precautions in garment industry.  Create Pattern, Grade Pattern by PDS.  Create Layout by Marker.  Digitize pattern by Digitizer.  Print Pattern by Plotter.  Select & demonstrate various Software tools for Pattern Making.  3. Check Drafting of Children  Upper body & Lower Body Block.  Review Drafting of Children Upper body Block.  Check Drafting of Children Lower Body Block.  Change/Rotate Base line, add Fullness, change corner, Insert Button, Add Notch, Align points, Circle, Arc & Wave.  Trace & Trim, Extend, Join & split Contour.  Swap segment.  Demonstrate Cutting, Joining.  Create lines & Parallels of drafts.  4. Analyze Ladies Body Block & Analyze Trousers Block.  Show Ladies measurement.  Monitor Chart & Ladies Blocks.  5. Assess Digitizing & Grading of Pattern.  Explore File, Edit, Piece, Design, Tool, View & Help menu.  Design with darts.  Insert Style Lines.		using different software	Explore different softwares likePaint, Corel draw and Adobe		
(Latest Software) etc. Point out Safety precautions in garment industry. Create Pattern, Grade Pattern by PDS. Create Layout by Marker. Digitize pattern by Digitizer. Print Pattern by Plotter. Select & demonstrate various Software tools for Pattern Making.  Review Drafting of Children Upper body Block. Check Drafting of Children Lower Body Block. Change/Rotate Base line, add Fullness, change corner, Insert Button, Add Notch, Align points, Circle, Arc & Wave. Trace & Trim, Extend, Join & split Contour. Swap segment. Demonstrate Cutting, Joining. Create lines & Parallels of drafts.  4. Analyze Ladies Body Block & Trousers Block. Show Ladies measurement. Monitor Chart & Ladies Blocks.  5. Assess Digitizing & Grading of Patterns. Explore File, Edit, Piece, Design, Tool, View & Help menu. Design with darts. Insert Style Lines.		tools like Corel draw, Adobe	Photoshopetc.		
Point out Safety precautions in garment industry.  Create Pattern, Grade Pattern by PDS.  Create Layout by Marker.  Digitize pattern by Digitizer.  Print Pattern by Plotter.  Select & demonstrate various Software tools for Pattern Making.  Review Drafting of Children Upper body Block.  Check Drafting of Children Lower Body Block.  Check Drafting of Children Lower Body Block.  Change/Rotate Base line, add Fullness, change corner, Insert Button, Add Notch, Align points, Circle, Arc & Wave.  Trace & Trinn, Extend, Join & split Contour.  Swap segment.  Demonstrate Cutting, Joining.  Create lines & Parallels of drafts.  Check Ladies Body Block.  Analyze Ladies Body Block & Check Ladies Body Block.  Analyze Trousers Block.  Show Ladies measurement.  Monitor Chart & Ladies Blocks.  Assess Digitizing & Grading of Pattern.  Explore File, Edit, Piece, Design, Tool, View & Help menu.  Design with darts.  Insert Style Lines.		Photoshop etc.	Create patterns with the help of Corel draw, Adobe Photoshop		
Create Pattern, Grade Pattern by PDS. Create Layout by Marker. Digitize pattern by Digitizer. Print Pattern by Plotter. Select & demonstrate various Software tools for Pattern Making.  3. Check Drafting of Children Upper body & Lower Body Block.  Review Drafting of Children Upper body Block. Check Drafting of Children Lower Body Block. Change/Rotate Base line, add Fullness, change corner, Insert Button, Add Notch, Align points, Circle, Arc & Wave. Trace & Trim, Extend, Join & split Contour. Swap segment. Demonstrate Cutting, Joining. Create lines & Parallels of drafts.  4. Analyze Ladies Body Block & Check Ladies Body Block. Show Ladies measurement. Monitor Chart & Ladies Blocks.  5. Assess Digitizing & Grading of Patterns. Explore File, Edit, Piece, Design, Tool, View & Help menu. Design with darts. Insert Style Lines.			(Latest Software) etc.		
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Block.  Change/Rotate Base line, add Fullness, change corner, Insert Button, Add Notch, Align points, Circle, Arc & Wave.  Trace & Trim, Extend, Join & split Contour.  Swap segment.  Demonstrate Cutting, Joining.  Create lines & Parallels of drafts.  Check Ladies Body Block.  Trousers Block.  Analyze Trousers Block.  Show Ladies measurement.  Monitor Chart & Ladies Blocks.  5. Assess Digitizing & Grading of Pattern.  Explore File, Edit, Piece, Design, Tool, View & Help menu.  Design with darts.  Insert Style Lines.	3.	<u> </u>			
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of Patterns.  Explore File, Edit, Piece, Design, Tool, View & Help menu.  Design with darts.  Insert Style Lines.			Monitor Chart & Ladies Blocks.		
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Design with darts.  Insert Style Lines.	5.	Assess Digitizing & Grading	Assess Digitizing of Pattern.		
Insert Style Lines.	of Patterns. Explore File, Edit, Piece, Design, Tool, View & H		Explore File, Edit, Piece, Design, Tool, View & Help menu.		
·			Design with darts.		
Assess Grading of Patterns.			Insert Style Lines.		
			Assess Grading of Patterns.		

		Grade Size Table, Grading Table, Grading Menu.
6.	Review designing of Skirts,	Examine drafting of Skirt Block Design.
	Sleeves, Collars & Developing	Insert to the Block.
	Patterns with Spec Sheet,	Design Skirts.
	Marker Tools & 3D Tools.	Monitor developing of Sleeve Blocks.
		Insert Design Developing Collars.
		Developing Patterns with Spec Sheet.
		Demonstrate Marker Tools &3D Tools.
7.	Explain Apparel enterprises	Monitor exercise on Apparel enterprises & Apparel Market
	& Apparel Market	requirements.
	requirements.	Plan collection of samples, survey work in market & industry.
		Monitor preparation of sample folders & survey reports.
8.	Ensure Quality control &	Identify defects in fabrics & accessories.
	inspection in garment	Check measurements as perSpec. Sheet.
	industry.	Prepare cost Sheet.
		Exercise on various sheets used in garment export house by
		Quality Controllers.
9.	Demonstrate Project Work	Demonstrate Project Work on design of pattern and garment
	on design/ development of	stitching.
	pattern and garment	Demonstrate Project Work on development of pattern and
	stitching.	garment stitching.
10.	Demonstrate different	Demonstrate different sewing machines, their working, stitches,
	sewing machines, industrial	seams, sewing needles, working aids etc.
	sewing machine and their	Monitor samples on motorized industrial sewing machine.
	functions including	Demonstrate Basic Sewing machines for General Sewing, Over
	motorized industrial sewing	locking, Safety Stitching etc.
	machine.	
11.	Illustrate Pattern Making,	Estimate cloth for Different width, Different Size & Different
	Cutting, Stitching & finishing	Fabric Pattern.
	of Designer Blouses,	Show Pattern Making, Cutting, Stitching & finishing of Designer
	Shirt/Safari, Designer Suits	Blouses as per Fashion.
	etc.	Explain Pattern Making, Cutting, Stitching & finishing of
		Shirt/Safari Shirt/Pathani Shirt as per Fashion.
		Demonstrate Cutting, Stitching & Finishing of T Shirt, Safari Shirt,
		Pathani Suit.
		Show Pattern Making, Cutting, Stitching & finishing of Designer

	Suits according to latest trend & innovated idea.
	Explain Cutting, Stitching & Finishing of Shorts, American (Two
	Piece Trousers).
12. Demonstrate Pattern making	Demonstrate Pattern Making for special needs for Deformed
for special needs of Jacket &	figures, Abnormal figures etc.
Vest coat (Including Lining)	Show Pattern Making of Jacket & Vest coat (Including Lining).
etc.	Explain Pattern Making of Single Breast, Double Breast
	Sherwani/Achakan etc.
13. Check the measurement,	Check Measurements of finished garments.
stitching etc. of finished	Analyze Stitching, Stains, and Defects of finished Garments.
Garments.	Inspect Garments.
14. Demonstrate project on	Select garment based on a theme for project.
theme garment as per	Choose garment as per market demand for project.
market demand.	Develop the project with innovative ideas and creativity.

### 8. INFRASTRUCTURE

LIST OF TOOLS AND EQUIPMENT FOR SEWING TECHNOLOGY - CITS						
	For batch of 25 candidates					
Sl.No	Name of the Tool & Equipment	Specification	Quantity			
A. Con	nputer Laboratory					
1.	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.	26 Nos.			
2.	Pattern Making software		26 Nos.			
3.	UPS		As required			
4.	Server system (Latest Configuration) with software		01 No.			
5.	LAN Connectivity & Internet facility to the computers		As per requirement			
6.	CAD-Pattern Making Software(3D) C Draw Latest Version		05 each			
7.	CAD-Fashion Design Software(Fashion Studio)		05 Nos.			
8.	Antivirus Software		26 Nos.			
9.	Laser Printer color	A4	01 No.			
10.	Colored laser Printer	A3	01 No.			
11.	Scanner		01 No.			
12.	Computer Table for server		01 No.			
13.	Printer Table		02 Ns.			
14. 15.	Table for Scanner  White Magnetic Board with Felt board & accessories		01 Ns. 01 No.			
16.	Digitizer		01 No.			
17.	Plotter		01 No.			
18.	Display Board		02 Nos.			
19.	Storage Almirah ( Size as per requirement)		02 Nos.			
20.	Air Conditioner	2 Ton capacity with Stabilizer	As per requirement			
21.	Wall Clock		01 No.			
22.	Modular Workstation with chair		25 Nos.			

23.	LCD Projector		01 No.
24.	Vacuum Cleaner		01 No.
25.	Trainer's Table & Chair		01 set
26.	Laptop For Faculty (with latest configuration)		01 set
B. The	ory Room		
27.	Single desks for trainees with		25 Nos.
27.	arrangements of keeping Books etc.		25 1403.
28.	Chairs without arms		25 Nos.
29.	Faculty Table & Chair set		01 No.
30.	Computer set with UPS & multimedia projector	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.
31.	White Magnetic Board with Felt board		01 No.
	& accessories		OI NO.
32.	Display Board		02 Nos.
33.	Storage Almirah		01 No.
34.	Book Shelf		01No.
C. Draf	fting/Cutting /Sewing Room Tools & Equi	ipment	
35.	Scissors	25 cm	26 Nos.
36.	Pinking Shears		05 Nos.
37.	Tailors Square		26 Nos.
38.	Leg Shaper		26Nos.
39.	Garment Hangers		25 Nos.
40.	Screw Driver Set		04 Nos.
41.	Cart chop		02 Nos.
42.	Table Sharpener		04 Nos.
43.	Pressing Table		05 Nos.
44.	Blanket for padding of Pressing Table		05 Nos.
45.	Rubber mat	Size as per requirement	05 Nos.
46.	Sprayer		05 Nos.
47.	Waste Bin	Big / Small	13 Nos.
48.	Pattern Punch		26 Nos.
49.	Pattern Notcher		26 Nos.
50.	Pattern Hanging Stand		04 Nos.
51.	Water Tub	60 cm dia.	01 No.
52.	Stand for hanging dresses		05 Nos.

53.	Trial room	3 side mirrors of size 150 cm X	01 No.
		60 cm each with arrangements	
		of hanging Dresses	
54.	Electric Automatic steam press		02 Nos.
55.	Electric automatic iron		03 Nos.
56.	Sewing Machine -	Single Needle Lock stitch	26 Nos.
		Industrial model	
57.	Over Lock Machine	3 Thread	01 No.
58.	Over lock Machine	5 Thread	01 No.
59.	Blind Stitching Machine		01 No.
60.	Button Hole Machine		01 No.
61.	Bar Tacking Machine		01 No.
62.	Safety Stitch Machine		01 No.
63.	Pick Glass		05 Nos.
64. 65.	Zig Zag Multi Purpose Machine  Machine attachments		01 No.
65.	Wachine attachments		As per requirement
66.	Chairs	low back rest or stools forthe	27 Nos.
00.	Citalis	machines (one for each	27 1103.
		machine)	
67.	Drafting Table		10 Nos.
68.	Display board	covered with glass or acrylic	02 Nos.
		sheet 120X90cm	
69.	Instructor Table		01 No.
70.	Instructor Chair		02 Nos.
71.	Steel Almirah	195 X 90 X 60 cm	02 Nos.
72.	Pigeon hole Almirah	10 lockers & separate locking	02 Nos.
		arrangements for trainees	
73.	Locks for above pigeon hole		25 Nos.
74.	Wall Clock		03 Nos.
75.	Calculator Desk Type		01 No.
76.	White Board with accessories (size as		02 Nos.
	per requirement)		
77.	Dummy (Lady)		02 Nos.
78.	Mannequins(lady)		02 Nos.
79.	Mannequins(Kids)		02 Nos.
80.	Mannequins(Gents)		02 Nos.
D. TRA	AINEES' TOOL KIT FOR 25 TRAINEES + 1 Ir	structor(consumable)	
81.	Measuring Tape	150 cm	26 Nos.
82.	Seam Ripper		26 Nos.
83.	Thimble		26 Nos.
84.	Drafting Card Scales	(set of six scales)	26 Nos.
85.	Tailors Square -	Plastic	26 Nos.
86.	French Curve	Set of six	26 sets

87.	Thread Cutter		26 Nos.
88.	Scale plastic	24"	26 Nos.
89.	Paper Cutter		26 Nos.
90.	Loop Turner		26 Nos.
91.	Drafting Pins(set)		26 Nos.
92.	Draping Pins		26 pkt.
93.	Draping Fabric Muslin		5 m.
94.	Muslin for Sewing Practice		3 m.

### **ANNEXURE - I**

The DGT sincerely acknowledges contributions of the Industries, State Directorates, Trade Experts, Domain Experts and all others who contributed in revising the curriculum.

Special acknowledgement is extended by DGT to the following expert members who had contributed immensely in this curriculum.

SNo.	Name & Designation Sh./Mr./Ms.	Organization	Remarks
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