

COMPETENCY BASED CURRICULUM

FOR THE TRADE OF

Sewing Technology

SEMESTER-I & II

UNDER

CRAFTSMAN TRAINING SCHEME (CTS)

IN SEMESTER PATTERN

BY



**GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP
DIRECTORATE GENERAL OF TRAINING**

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1. INTRODUCTION

India is one of the youngest nations in the world. Our youth are our strength. However, a challenge facing the country is that of skilling our youth as per the demands of the industry. Recognizing the need for quickly coordinating the skill development and entrepreneurship efforts of all concerned stakeholders, the Government of India created the Ministry of Skill Development and Entrepreneurship on 9th November, 2014. To create further convergence between the Vocational Training System through Industrial Training Institutes (ITIs) and the new skill initiatives of the Government, the Training and Apprenticeship Training divisions from the Directorate General of Employment and Training (DGET) under the Ministry of Labour and Employment stand transferred to the Ministry of Skill Development and Entrepreneurship (MSDE) with effect from 16th April, 2015. This move brings over 11000 ITIs and scores of other institutions, and the Apprenticeship and Training divisions, under the Ministry.

The Ministry of Skill Development and Entrepreneurship is an apex organization for the development and coordination of the vocational training including Women's Vocational Training in our country. The Ministry conducts the vocational training programmes through the Craftsmen Training Scheme (CTS), Apprenticeship Training Scheme (ATS), Modular Employable Scheme (MES) under the Skill Development Initiative (SDI) Scheme, and Craftsmen Instructor Training Scheme (CITS) to cater the needs of different segments of the Labour market. The National Council for Vocational Training (NCVT) acts as a central agency to advise Government of India in framing the training policy and coordinating vocational training throughout India. The day-to-day administration of the ITIs rests with the State Governments/ Union Territories.

- Training courses under the CTS is being offered through a network of more than 11000 Government and Private Industrial Training Institutes (ITIs) located all over the country with a total seating capacity of more than 16 Lakhs with an objective to provide skilled workforce to the industry in 126 trades. Skill development courses exclusively for women are also being offered under CTS and other schemes through Government and Private ITIs and Regional Vocational Training Institutes (RVTIs) for Women.
- The Apprentices Act, 1961 was enacted with the objective of regulating the program of apprenticeship training in the industry by utilizing the facilities available within for imparting on-the-job training. The Act makes it obligatory for employers in specified industries to engage apprentices in designated trades to impart on the job training for school leavers, and ITI passed outs to develop skilled manpower for the industry.
- The Ministry is implementing the Employable Scheme (MES) under the Skill Development Initiative Scheme to provide vocational training to people to develop skilled manpower for the industry through a network of Vocational Training Providers (VTPs) located across the country.

Central Staff Training and Research Institute (CSTARI), Kolkata is the nodal institute for the development/revision of curricula under all vocational training schemes of the Ministry. National Instructional Media Institute (NIMI), Chennai is to make available instructional material in various trades for the use of trainees and trainers to ensure overall improvement in the standard of institutional training under the CTS and ATS schemes. The institute is actively involved in the development, production and dissemination of instructional media Packages (IMPs) comprising of books on Trade Theory, Trade Practical, Test/Assignment, and Instructor's Guide.

The National Skills Qualification Framework (NSQF), published in the Gazette of India on 27th December, 2013, is a national framework that aims to integrate general and vocational streams of education and training. The main goal of the NSQF is to focus on competency-based qualifications, which in turn facilitate and enhance transparency, both within and between general and vocational streams. The National Skill Development Agency (NSDA) under the Ministry is responsible for anchoring and implementation of the Framework, by bringing together the key stakeholders through the National Skill Qualifications Committee (NSQC).

The competency-based framework organizes qualifications into ten levels, with the entry level being 1, and the highest level being 10. Each level of the NSQF is described by a statement of learning outcomes in five domains, known as level descriptors. These five domains are (1) Process, (2) Professional knowledge, (3) Professional skill, (4) core skill, and (5) Responsibility. The paradigm shift from learning focused on inputs to an outcome/competency-based education would help in the Recognition of Prior Learning (RPL), and simultaneously enable the alignment of the Indian qualifications with international ones. Government funding is expected to be on a preferential basis for NSQF compliant courses. The NSQF notification provides a Qualification Register, which is the official national database of all qualifications aligned to NSQF levels. Through this Register, learners can expect access to all NSQF compliant qualifications.

The Ministry has set up Mentor Councils to focus on courses under NCVT in various sectors with representation from thought leaders among different stakeholders viz., industries, innovative entrepreneurs who have proved to be game-changers, academic/professional institutions, and champion ITIs for each of the sectors. The Mentor Council for each sector reviews curriculum, admission criteria, course duration, and requirement of trainers and assessment/evaluation systems for the sector on a continuous basis and make recommendations regarding the same. Sector-wise Core Groups are formed to plan and prepare the documentation for the competency-based curricula for the courses under each sector.

2. GENERAL INFORMATION

| | | |
|---|--------------------------------------|--|
| 1 | Qualification | Sewing Technology |
| 2 | N.C.O./NOS Code No. | 7433.10 |
| 3 | NSQF Level | Level 4 |
| 4 | Duration of the course/qualification | One Year (Two semesters) |
| 5 | Entry Qualification | Passed 10 th class under 10+2 system of examination |
| 6 | Trainees per unit | 16 trainees |

Note:

- i) Out of the two Instructors required for a unit of 2(1+1), one must have Degree/Diploma, and other must have NTC/NAC qualifications, in the relevant field.
- ii) Qualification of the Instructor for WCS and ED must be as per the training manual.

Distribution of notional training hours of the training per week:

| Total hours /week | Trade practical | Trade theory | Employability skills | Extra-curricular activity |
|-------------------|-----------------|--------------|----------------------|---------------------------|
| 40 Hours | 30 Hours | 6 Hours | 2 Hours | 2 Hours |

3. COURSE STRUCTURE

Name of the Qualification: Sewing Technology

Total duration of the course: 12 months

Training duration details:

| Course Elements | Hourly Distribution |
|--------------------------------|----------------------------|
| Professional Skills | 1320 hrs |
| Professional Knowledge | 264 hrs |
| Employability Skills | 88 hrs |
| Extra Curricular Activities | 88 hrs |
| In-plant Training/Project Work | 160 hrs |
| Admission & Examination | 160 hrs |
| Total | 2080 hrs |

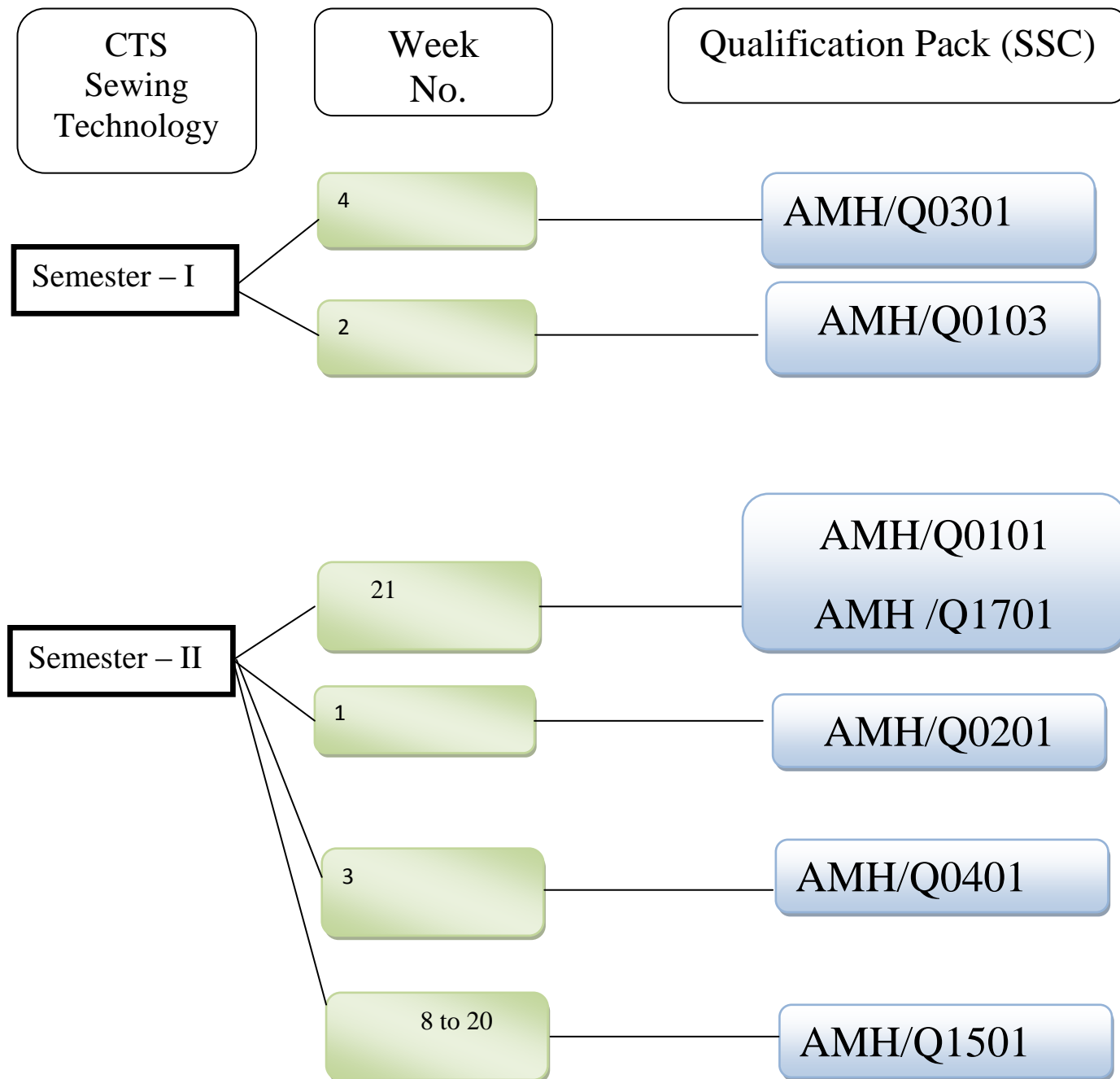
4. JOB ROLES

4.1 Brief description

This course is meant for the candidates who aspire to become Sewing Machine operator, Assistant to Designer, Assistant worker in Boutique, Assistant to Sample Garment Designer and Assistant to Garment Sample Coordinator

4.2 NOS & QP/NCO Mapping:

Mapping of CTS Sewing Technology Trade with qualification pack (SSC)



5. NSQF LEVEL COMPLIANCE

The Broad Learning outcomes of Sewing Technology trade under CTS matches with the Level descriptor at Level- 4.

The NSQF level-4 descriptor is given below:

| LEVEL | Process required | Professional knowledge | Professional skill | Core skill | Responsibility |
|---------|--|--|--|---|---|
| Level 4 | work in familiar, predictable, routine, situation of clear choice. | factual knowledge of field of knowledge or study | recall and demonstrate practical skill, routine and repetitive in narrow range of application, using appropriate rule and tool, using quality concepts | language to communicate written or oral, with required clarity, skill to basic Arithmetic and algebraic principles, basic understanding of social political and natural environment | Responsibility for own work and learning. |

6. GENERAL TRAINING PLAN, EXAMINATION & PASS REGULATION

General Training Plan

The knowledge and skill components as stated in the section for 'learning outcomes' are to be imparted in accordance with the instructions in respect of the content and time structure.

Assessment

The assessment for the semester-based qualification is carried out by conducting formative assessments, and end-of-semester examinations, as per the guidelines given in the Curriculum. The internal assessments for theory subjects and practical are conducted for evaluating the knowledge and skill acquired by trainees and the behavioural transformation of the trainees as per the learning outcomes. Theory examinations are conducted in Trade Theory, Workshop Calculation & Science, Engineering Drawing and Employability Skills. Trade practical examinations are conducted by the respective State Governments. The details of the examination and assessment standard are in a latter section. NCVT prepares the question papers for the Trade practical. Candidates are to demonstrate that they can:

1. Read & interpret technical parameters/documentation, plan and organize work processes, and identify necessary materials and tools,
2. Perform a task/job with due consideration to safety rules, accident prevention regulations and environmental protection stipulations,
3. Apply Professional Knowledge, Core Skills, and Employability Skills while performing the task/job.
4. Check the task/job as per the drawing for proper functioning, and identify and rectify errors in the job, if any.
5. Document the technical parameters related to the task/job.

Pass regulation

For the purposes of determining the overall result, weightage of 25 percent is applied to each semester examination. The minimum pass percent for Practical is 60% & minimum pass percent for Theory subject is 40%.

7. LEARNING OUTCOMES

The following are minimum broad learning outcomes after completion of the Sewing Technology course of One year duration:

A. GENERIC OUTCOMES

- Recognize & comply safe working practices, environment regulation and housekeeping.
- Work in a team, understand and practice soft skills, technical English to communicate with required clarity.
- Understand and explain the concept in quality tools and labour welfare legislation and apply such in day to day work to improve productivity & quality.
- Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources.
- Explain entrepreneurship and manage/organize related task in day to day work for personal & societal growth.
- Understand and apply basic computer working, basic operating system and uses internet services to get accustomed & take benefit of IT developments in the industry.

B. SPECIFIC OUTCOMES

SEMESTER – I

- . Make hand stitches in the given fabric
- Stitch the following using the given fabric
 - Seams with seam finishes
 - Dart
 - Pleat
 - Tucks
 - Gathers & Shears
 - Frills
 - Hems
 - Casing
 - Edge Finishing
 - Neck line
 - Placket
 - Pocket
 - Collar
 - Sleeve
 - Cuff
- Fix the fasteners on the given fabric.
- Mend the given fabric
- Draft a pattern for Ladies' Suit
- Sew a Ladies' Suit with the help of the given pattern

SEMESTER - II

- Sketch the following garments.
 - Ladies' Tops/Short kurthies
 - Ladies' Suit
 - Nightwear (one piece/two piece)
 - Sari Blouse
 - Dresses for New Born
 - Dresses for Toddler
 - Dresses for Kids
- Construct the following garments with fitting and quality according the sketched designs
 - Sari Petticoat
 - Ladies' Top/Short Kurthies
 - Ladies' Suit
 - Nightwear (One Piece with Yoke)
 - Nightwear (Two Piece – Night suit)
 - Sari Blouse (Simple Model - Plain)
 - Dress for a Newborn (Jhabla)
 - Dress for a Toddler (Sun Suit)
 - Dress for Kids (Frock)
 - Dress for Kids (Frock)
 - Gent's Casual Shirt
 - Gent's Trousers

8. ASSESSABLE OUTCOMES WITH ASSESSMENT CRITERIA

Note:

1. The training shall be conducted as per the syllabus.
2. The trainee shall demonstrate the competencies that are defined below in the assessable outcomes highlighted below.
3. The trainee shall be assessed for his/her achievement levels in all the assessable outcomes on the basis of the formative assessment, Theory & Practical examinations, observation, and viva-voce.
4. The trainee shall be assessed for his/her achievement levels in all the assessable outcomes of the Employability Skills, Workshop Calculation & Science, and Engineering Drawing, on the basis of Theory Examinations, and for his/her ability to apply the concepts in Practical.
5. The assessable outcomes and assessment criteria will serve as a set of guidelines for Trainers, Paper setters, Moderators, and Assessors.

Assessable outcomes along with assessment criteria to be achieved after each semester and completion of qualification:

Generic assessable outcomes:

| ASSESSABLE OUTCOMES | ASSESSMENT CRITERIA |
|--|---|
| 1. Recognize & comply safe working practices, environment regulation and housekeeping. | 1.1 Follow and maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements and according to site policy. |
| | 1.2 Recognize and report all unsafe situations according to site policy. |
| | 1.3 Identify and take necessary precautions on fire and safety hazards and report according to site policy and procedures. |
| | 1.4 Identify, handle and store / dispose off dangerous goods and substances according to site policy and procedures following safety regulations and requirements. |
| | 1.5 Identify and observe site policies and procedures in regard to illness or accident. |
| | 1.6 Identify safety alarms accurately. |
| | 1.7 Report supervisor/ Competent of authority in the event of accident or sickness of any staff and record accident details correctly according to site accident/injury procedures. |
| | 1.8 Identify and observe site evacuation procedures according to site policy. |
| | 1.9 Identify Personal Productive Equipment (PPE) and use the same as per related working environment. |
| | 1.10 Identify basic first aid and use them under different circumstances. |
| | 1.11 Identify different fire extinguisher and use the same as per requirement. |

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| | 1.12 Identify environmental pollution & contribute to the avoidance of instances of environmental pollution. |
| | 1.13 Deploy environmental protection legislation & regulations |
| | 1.14 Take opportunities to use energy and materials in an environmentally friendly manner |
| | 1.15 Avoid waste and dispose waste as per procedure |
| | 1.16 Recognize different components of 5S and apply the same in the working environment. |
| 2. Work in a team, understand and practice soft skills, technical English to communicate with required clarity. | 2.1 Obtain sources of information and recognize information. |
| | 2.2 Use and draw up technical drawings and documents. |
| | 2.3 Use documents and technical regulations and occupationally related provisions. |
| | 2.4 Conduct appropriate and target oriented discussions with higher authority and within the team. |
| | 2.5 Present facts and circumstances, possible solutions & use English special terminology. |
| | 2.6 Resolve disputes within the team |
| | 2.7 Conduct written communication. |
| 3. Understand and explain the concept in productivity, quality tools, and labour welfare legislation and apply such in day to day work to improve productivity & quality. | 3.1 Semester examination to test the concept in productivity, quality tools and labour welfare legislation. |
| | 3.2 Their applications will also be assessed during execution of assessable outcome. |
| 4. Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources. | 4.1 Semester examination to test knowledge on energy conservation, global warming and pollution. |
| | 4.2 Their applications will also be assessed during execution of assessable outcome. |
| 5. Explain entrepreneurship and manage/organize related task in day to day work for personal & societal growth. | 5.1 Semester examination to test knowledge on entrepreneurship. |
| | 5.2 It's applications will also be assessed during execution of assessable outcome. |
| 6. Understand and apply basic computer working, basic operating system, simulate part programme using simulation software and uses internet services to get accustomed & take benefit of IT developments in the industry. | 6.1 Semester examination to test knowledge on basic computer working, basic operating system and uses internet services. |
| | 6.2 Their applications will also be assessed during execution of assessable outcome. |

SPECIFIC ASSESSABLE OUTCOME:

Semester-I

| ASSESSABLE OUTCOME | ASSESSMENT CRITERIA |
|--|---|
| 7. Make hand stitches in the given fabric | 7.1 Identify tools for Cutting, Sewing & Finishing and use of these tools with safety. |
| | 7.2. Select suitable fabric. Select suitable needle size and sewing thread according to fabric |
| | 7.3. Straighten the fabric grain |
| | 7.4. Maintain the distance between two stitches. Take care about length and width of the stitches. |
| | 7.5. Follow the colour combination while doing the decorative stitches. |
| | 7.6. Finish the edge of the fabric using hemming stitch. |
| | 7.7. Follow the safe measures and needle guard policy while doing the sewing. |
| 8. Stitch the following using the given fabric | 8.1 Identify tools for Cutting, Sewing & Finishing and use of these tools with safety. |
| | 8.2. Select suitable fabric. Select suitable needle size and sewing thread according to fabric |
| | 8.3. Straighten the fabric grain |
| | 8.4. Sit in a correct posture and test the stitch formation in the sewing machine. |
| | 8.5 Use proper sewing aids while sewing the garment. |
| Seams with seam finishes | 8.6 ✓ Use appropriate stitching techniques such as single pointed darts, plain seam, continuous placket, casing and decorative hem ✓ Check the direction of darts ✓ Finish the garment by applying suitable fasteners |
| Dart | 8.6 ✓ Mark the dart properly at the start and the end ✓ Stitch the dart and knot the dart end ✓ Press the dart |
| Pleat | 8.6 ✓ Mark the pleatlines ✓ Stitch the pleat ✓ Check distance in between the pleats ✓ Press the Pleat |
| Tucks | 8.6 ✓ Mark the tuck lines ✓ Stitch the tucks ✓ Finish the stitching at the tuck end ✓ Press the tucks |
| | 8.6 |

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| Gathers and Shirrs | <ul style="list-style-type: none"> ✓ Marks the start and end of gathers ✓ Check the equal distribution of gathers ✓ Stitch in straight lines ✓ Thread the overlock machine ✓ Finish the free edge by overlock machine ✓ Press the fabric at the end |
| Frills | 8.6 <ul style="list-style-type: none"> ✓ Mark and cut the frill strips ✓ Finish the edge of the frill ✓ Attach the frill to a fabric |
| Hems | 8.6 <ul style="list-style-type: none"> ✓ Mark the hem with proper tools ✓ Maintain equal folding throughout the hem ✓ Properly finish the corner in case of mitered hem |
| Casing | 8.6 <ul style="list-style-type: none"> ✓ Mark the allowance for casing in the fabric ✓ Turn the fabric equally while stitching casing ✓ Finish the edge of the casing at the opening side ✓ Maintain the straight line while stitching |
| Edge finishing | 8.6 <ul style="list-style-type: none"> ✓ Make the bias strips ✓ Join the bias strips properly ✓ Attach the bias strip on the curved lines ✓ Cut & clip in the curved lines |
| Neckline | 8.6 <ul style="list-style-type: none"> ✓ Maintain the shape of the necklines ✓ Select the proper method of finishing the neckline ✓ Follow perfection while stitching in curves ✓ Maintain neatness and balance throughout the process |
| Placket | 8.6 <ul style="list-style-type: none"> ✓ Finish the end point of the placket ✓ Mark and cut the finishing strips ✓ Follow straight edge stitching |
| Pocket | 8.6 <ul style="list-style-type: none"> ✓ Select and mark the placement of the pocket ✓ Stitch neatly the corners in case of patch pockets ✓ Secure the ends of the pocket mouth ✓ Follow neatness while sewing with the base fabric |
| Collar | 8.6 <ul style="list-style-type: none"> ✓ Select suitable interlining and its facing for the main fabric ✓ Check the balance of the collars ✓ Maintain shapes at the both ends of the collars ✓ Follow sharp collar points while turning the collar |
| Sleeve | 8.6 <ul style="list-style-type: none"> ✓ Check the fabric suits the sleeve style ✓ Cut the fabric for sleeve by following proper fabric grain ✓ Finish the bottom of the sleeve neatly |
| Cuff | 8.6 <ul style="list-style-type: none"> ✓ Select suitable interlining material according to main fabric ✓ Fix or Fuse the interlining to the main fabric |

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| | <ul style="list-style-type: none"> ✓ Maintain neatness while sewing the corners of the cuff ✓ Make neat top stitching on the cuff |
| | 8.7 Solve the sewing machine problems with suitable remedies after finding the causes. |
| | 8.8 Follow the safe measures and needle guard policy while doing the sewing. |
| 9. Fix the fasteners on the given fabric | 9.1 Select a suitable fastener according to the requirement. |
| | 9.2 Maintain neatness while starting and ending stage of fixing fasteners. |
| | 9.3 Match male & female part of fasteners. |
| | 9.4 Fix the size of the buttonhole according to the button. |
| | 9.5 Follow equidistance and equalheight with neatness of buttonhole stitches. |
| 10. Mend the given fabric | 10.1 Select the thread with suitable colour and quality for patching. |
| | 10.2 Finish neatly the darned or patched piece. |
| 11. Draft a pattern for Ladies' Suit | 11.1. Identify tools for measuring, marking, drafting & cutting and use of these tools with safety. |
| | 11.2. Explain the measuring units and measuring techniques for required measurements. |
| | 11.3. Draft the pattern for a Ladies' Suit. Use the paper economically - Check for shapes, front and back shoulder, side seams |
| | 11.4. Cut the pattern using shears properly along the cutting line – Check cutting edges |
| | 11.5. Finish the pattern with pattern particulars. |
| 12. Sew a Ladies' Suit with the help of the given pattern | 12.1 Identify tools for Sewing & Finishing and use of these tools with safety. |
| | 12.2. Select suitable fabric for the garment and select suitable needle size and sewing thread according to fabric |
| | 12.3. Straighten the fabric grain |
| | 12.4. Place the patterns on the fabric and mark the pattern outline properly. |
| | 12.5. Cut the components by selecting suitable tool. |
| | 12.6 Make upper and lower threading in a Industrial Model single needle lock stitch machine |
| | 12.7. Sit in a correct posture and test the stitch formation. |
| | 12.8 Sew the ladies' suit by applying the component making techniques |
| | 12.9 Use proper sewing aids while sewing the garment. |
| | 12.10. Finish the garment by applying suitable fasteners. |
| | 12.11 Solve the sewing machine problems with suitable remedies after finding the causes. |
| | 12.12. Follow the safe measures and needle guard policy while doing the sewing. |

Semester-II

| ASSESSABLE OUTCOME | ASSESSMENT CRITERIA |
|---|--|
| <p>9. Sketch the following garments.</p> <ul style="list-style-type: none"> ○ Ladies' Tops/Short kurthies ○ Ladies' Suit ○ Nightwear (one piece/two piece) ○ Sari Blouse ○ Dresses for New Born ○ Dresses for Toddler ○ Dresses for Kids | 9.1 Select a suitable paper for sketching and plan the layout before starting sketching |
| | 9.2 Identify the suitable sketching items and use them properly |
| | 9.3. Sketch the garment |
| | 9.4. Select the proper colours and colour combinations |
| | 9.5. Apply colours and shade on the sketch |
| <p>10. Construct the following garments with fitting and quality according the sketched designs</p> | 10.1 Identify tools for Drafting, Cutting, Sewing & Pressing and use of these tools with safety. |
| | 10.2. Decide the design features of the garment according to the sketching. |
| | 10.3. Select the fabric and other raw materials suitable for the garment. |
| | 10.4. Explain the measuring units and measuring techniques for required measurements. |
| | 10.5. Draft the pattern for the garment. Use the paper economically. |
| | 10.6. Cut the pattern using shears properly along the cutting line. |
| | 10.7. Finish the pattern with pattern particulars. |
| | 10.8 Straighten the fabric grain and prepare the fabric for cutting |
| | 10.9 Select and make a suitable economical pattern layout on the fabric and estimate the fabric consumption. |
| | 10.10 Mark the pattern outline properly and cut the components by selecting suitable shears. |
| | 10.11. Identify and select the suitable industrial sewing machines for each process of constructing the garment. |
| | 10.12. Select suitable needle size and sewing thread according to fabric |
| | 10.13 Make upper and lower threading in the required Industrial Model sewing machines. |
| | 10.14 Sew the garment using the Industrial model sewing machines with sewing aids by following proper seam and other allowances |
| Sari Petticoat | <p>10.15</p> <ul style="list-style-type: none"> ✓ Use appropriate stitching techniques such as single pointed darts, plain seam, continuous placket, casing and Circular/decorative hem ✓ Check the direction of darts ✓ Finish the garment by applying suitable fasteners |

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| Ladies' Top/Short Kurthies | 10.15 <ul style="list-style-type: none"> ✓ Select the particular seam type suited to the particular area of the garment ✓ Check the front kurta placket, Faced neckline and squared hem |
| Ladies' Suit | 10.15 <ul style="list-style-type: none"> ✓ Check the neckline edge finished with facing of Kameez ✓ Stitch neatly the Squared turned up bottom hem & Turned up sleeve bottom of Kameez ✓ Maintain neatness in armhole joints and there should be no puckering at armhole joints in Kameez ✓ Stitch neatly the according to the design of salwar bottom. ✓ Fold down the casing uniformly in salwar ✓ Maintain proper positioning and distribution of cluster pleats in salwar. ✓ Finish the belt finishing of salwar properly. |
| Nightwear (One Piece with Yoke) | 10.15 <ul style="list-style-type: none"> ✓ Stitch the yoke and neck in proper shape ✓ Use appropriate sleeve pattern ✓ Distribute the gathers properly ✓ Stitch with no puckering at armhole ✓ Finish the neckline properly with clean ✓ Finish the Turned up hem neatly ✓ Make the flare of nightwear with proportion |
| Nightwear (Two Piece – Night suit) | 10.15 <ul style="list-style-type: none"> ✓ Stitch the Front placket of the Shirt neatly ✓ Finish the neckline with Convertible collar ✓ Stitch Full/Half plain sleeve with turned up bottom ✓ Make the Squared turned up bottom hem properly ✓ Stitch the two patch pockets with hem with proper position ✓ Maintain neatness while stitching Fold down casing and turned up hem in Simple Pyjamas. |
| Sari Blouse (Simple Model - Plain) | 10.15 <ul style="list-style-type: none"> ✓ Select suitable fabric ✓ Check the dart positions ✓ Finish the neckline with pipings ✓ Sew Front Placket neatly ✓ Check the position and finishing of fasteners ✓ Finish the hemline neatly ✓ No puckering should be anywhere in the blouse |
| Dress for a Newborn (Jhabla) | 10.15 <ul style="list-style-type: none"> ✓ Select a smooth soft fabric suitable for a newborn baby ✓ Press studs or strings should be used ✓ Finish the turned up hem ✓ Finish the Neckline and armhole with combined facings |
| Dress for a Toddler (Sun Suit) | 10.15 <ul style="list-style-type: none"> ✓ Select a fabric properly ✓ Check that the elastic should not be very tight ✓ Check the finishing of the strap and bib attached to the bloomer |

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|---------------------------|---|
| | <ul style="list-style-type: none"> ✓ Check the design element of sun suit ✓ Fix suitable fasteners |
| Dress for Kids (Frock) | <p>10.15</p> <ul style="list-style-type: none"> ✓ Check the design element of frock ✓ Check the finishing in stitching lines ✓ Check the Proportionate and equally distributed gathers ✓ Stitch the Puffed Sleeve proportionately ✓ Check the position of the placket and fasteners ✓ Check the Overall finishing in hand work such as attachments of fasteners, hemming and neckline finishing ✓ Make the collar with proper shape ✓ Check the quality of the Turned up hem |
| Gent's Kurtha and Pyjamas | <p>10.15</p> <ul style="list-style-type: none"> ✓ Make two piece placket in Kurta ✓ Finish the neckline with continuous facing ✓ Make the Squared hem neatly ✓ Finish the Inseam kurta pocket properly ✓ Fold down the casing of pyjamas neatly ✓ Finish the side pocket ✓ Secure the end of pocket ✓ Match seam at the intersecting points of the seamlines |
| Gent's Casual Shirt | <p>10.15</p> <ul style="list-style-type: none"> ✓ Check the shape of collar, cuff, pocket, and its finishing ✓ Check the finishing of placket and placement of button and buttonholes ✓ Check the yoke shape and pleat position below the yoke ✓ Make the Sleeve placket and check the position of pleats ✓ Check the overall finishing of shirt |
| Gent's Trousers | <p>10.15</p> <ul style="list-style-type: none"> ✓ Assure that Side pocket/Back hip pocket and fly placket ends should be secured properly ✓ Sew the side seams without puckering ✓ Make the loops, pleats and darts with proper placement ✓ Check the alignment of both left and right side of Waist band ✓ Check the finishing of side pocket and back hip pocket ✓ Finish and hem the bottom properly <p>10.16 Check the fitting of the garment</p> <p>10.17 Check the measurements and Quality of the garments and find the defects and stains if any</p> <p>10.18 Correct the defects and remove the stains if any.</p> <p>10.19 Press and folding the garment using pressing tools and folding accessories</p> <p>10.20 Solve the sewing machine problems with suitable remedies after finding the causes.</p> <p>10.21 Follow the safe measures and needle guard policy while doing the sewing and other operations.</p> |

9. SYLLABUS CONTENT WITH TIME STRUCTURE

SYLLABUS FOR THE TRADE OF Sewing Technology

9.1 Syllabus Content for Professional Skill & Knowledge

First Semester (Semester Code No. sewing tech – 01)

Duration: Six Months

Learning Objectives (1st Semester)

To create work force for self employment/working in Garment manufacturing Industry as -

- Sewing Machine Operator
- Assistant to Designer
- Assistant worker in Boutique

Detailed Syllabus:

| Week No. | Trade Practical | Trade Theory |
|----------|--|---|
| 1. | Familiarization with the Institute. | Introduction <ul style="list-style-type: none">• Trade• Job Prospects• Safety precautions• First Aid |
| 2. | Familiarization & handling of tools. Safety Precautions while handling the tools. | Basic Industrial Terminology Trade related Tools, their importance, usage and safety <ul style="list-style-type: none">• Measuring Tools• Drafting Tools• Marking Tools• Cutting Tools• Sewing Tools• Finishing Tools |

| | | |
|----|---|---|
| 3. | <ul style="list-style-type: none"> • Identification of fabrics and texture • Handling of Fabrics • Making weave samples | <p>Fabric Fundamentals</p> <ul style="list-style-type: none"> • Brief idea about fibers • Types of Fabrics • Selection of Needle and thread according to fabric types • Broken Needle Policy <p>Fabric Preparation for cutting</p> <ul style="list-style-type: none"> • Fabric Grain • Selvedge • Shrinkage • Straightening the fabric Grains <p>Measurements</p> <ul style="list-style-type: none"> • Units • Measuring Techniques |
| 4. | <p>Practice on Industrial Single needle lock stitch Sewing Machine</p> <ul style="list-style-type: none"> • Ergonomic principle of sitting on sewing machine • Speed Control • Practice on paper • Threading of machine • Bobbin winding & loading • Practice on fabric | <p>Basic Sewing Machine</p> <ul style="list-style-type: none"> • Parts and functions • Machine needle • Stitch formation • Sewing machine practice • Care and maintenance • Trouble Shooting • Types of Industrial Sewing Machine |
| 5. | <p>Running on</p> <ul style="list-style-type: none"> • Straight lines • Square • Zig zag lines • Circle • Semi circle • Spiral <p>Practice on Over lock machine</p> <ul style="list-style-type: none"> • Threading • Running • Minor adjustments | <p>Over lock machine</p> <ul style="list-style-type: none"> • Parts and functions • Machine practice • Care and maintenance • Trouble Shooting <p>Basic Garment Analysis</p> |
| 6. | <p>Practice of making Seams</p> <ul style="list-style-type: none"> • Plain Seam (Straight & Curved) with seam finishes • Self Enclosed seams • Top stitched seams • Corded Seam • Decorative seams <p>Practicing with Sewing Aids</p> | <p>Seams</p> <ul style="list-style-type: none"> • Classification • Uses • Properties of Seams • Seam finishes <p>Sewing Aids</p> <ul style="list-style-type: none"> • Presser foots • Folders • Guides |
| 7. | <p>Making Samples of</p> <ul style="list-style-type: none"> • Darts • Pleats | <p>Introducing Fullness</p> <ul style="list-style-type: none"> • Darts – Necessity, type & precautions during stitching • Pleats – Necessity, type & uses |
| 8. | <p>Making Samples of</p> <ul style="list-style-type: none"> • Tucks • Gathers and Shirrs • Frills | <p>Introducing Fullness</p> <ul style="list-style-type: none"> • Tucks – Types & use • Gathering and Shirring • Flare |

| | | |
|-----------|--|--|
| | | <ul style="list-style-type: none"> Ruffles/Frills – Types (Straight & Circular) & uses |
| 9. & 10. | Practice of Hand stitches & Making Samples of them | Hand stitches <ul style="list-style-type: none"> Hand needles – Size & types Sewing Thread Types & Applications of hand stitches |
| 11. | Making samples of <ul style="list-style-type: none"> Faced Hem Edge stitched hem Double stitched hem Band hem Ease in a hem Mitered hem Practice of the corner makings <ul style="list-style-type: none"> Self turned With additional strip | Hems <ul style="list-style-type: none"> Types Uses Corner Makings <ul style="list-style-type: none"> Types Uses |
| 12. & 13. | Making samples of <ul style="list-style-type: none"> Casing with Drawstring Casing with elastic Casing with heading Inside applied casing Outside applied casing Making samples of edge finishing <ul style="list-style-type: none"> Bias facing Combination shaped facing Outside facing Self facing Shaped facing Binding Piping | Casing <ul style="list-style-type: none"> Introduction use Edge Finishing <ul style="list-style-type: none"> Facings Bindings Pipings |
| 14. | Making samples of different shaped necklines | Necklines <ul style="list-style-type: none"> Different shapes of neckline |
| 15. | Samples of making samples of Plackets <ul style="list-style-type: none"> Faced Placket Continuous Placket One Piece Placket Two Piece Placket Two piece Placket with pleat Zippered Placket <ul style="list-style-type: none"> Lapped Fly Front Open End Invisible Visible | Plackets <ul style="list-style-type: none"> Types Sample makings |
| 16. | Samples of making different Pockets <ul style="list-style-type: none"> Patch Inseam Cut/slash | Pockets <ul style="list-style-type: none"> Types Design variations |
| 17. | Samples of making Collars | Collars |

| | | |
|-----------|--|--|
| | | <ul style="list-style-type: none"> • Classification • Collar terms |
| 18. | Samples of making Sleeves | Sleeves <ul style="list-style-type: none"> • Classification • Sleeve length variation • Sample making of Sleeves with and without cuff. |
| 19. | Practice of fixing fasteners as Buttons, Hooks, Eyes, Press Studs Practice of making Button holes by Hand Practicing Darning and Patching | Trimmings <ul style="list-style-type: none"> • Types • Applications • Fixing of Buttons, hooks etc. • Making of Buttonhole Mending <ul style="list-style-type: none"> • Darning • Patching |
| 20. | Stitching of Ladies suit | Drafting & developing Pattern for Ladies suit |
| 21. & 22. | Industrial Training (2 weeks). | |
| 23. | <p style="text-align: center;">Project Work</p> Prepare Minimum three Basic Dresses using the skills learned like Apron, Baby set, A-Line Frock etc. | |
| 24 & 25. | Employability skill | |
| 26. | Examination | |

Second Semester (Semester Code No. ____sewing tech 02__)

Duration: Six Months

Learning Objectives (2nd Semester)

To create work force for self employment/working in Garment manufacturing Industry as -

- Assistant to Sample Designer
- Assistant to Sample Coordinator

Detailed Syllabus:

Second Semester

| Week No. | Trade Practical | Trade Theory |
|----------|--|--|
| 1. | <ul style="list-style-type: none"> • Revision of work done in Semester I • Practice of taking Body Measurements | Human Figures <ul style="list-style-type: none"> • Eight Head Theory • Brief introduction about Joints and Muscles • Types of Figures Body Measurements <ul style="list-style-type: none"> • Importance • Types & Measuring Techniques • Precautions • Measurement Charts |
| 2. | * Practicing different types of layout using the given patterns | Patterns <ul style="list-style-type: none"> • Importance • Pattern Information • Types Spreading & Pattern Layout <ul style="list-style-type: none"> • Importance • Spreading methods/machines • Types of layout Pattern Drafting <ul style="list-style-type: none"> • Drafting/Pattern Terminology • Principles of Pattern drafting |
| 3. | Pattern Making, Fabric Estimation, Cutting, Sewing, Pressing & Folding of Saree Petticoat. Checking the Fitting of the garment | Pressing <ul style="list-style-type: none"> • Tools • Methods Importance of Pressing Trial Room <ul style="list-style-type: none"> • Necessity • Specification Sketching and drafting of Saree Petticoat. |
| 7. | Practice on special industrial sewing machines – <ul style="list-style-type: none"> • Double Needle Machine • Button Hole Machine • Button Sewing Machine • Multi purpose Machine (Zig zag) • Bar Tack machine • Feed off the Arm Double Needle | Mass Production Process – <ul style="list-style-type: none"> • Sequence of operations • Types of cutting machines • Fusing Technology • Types of Industrial Machines Used in sewing section • Finishing |
| 8. | Ladies Wear Pattern Making, Fabric Estimation, | Sketching and drafting of the following garments - |
| 9. | Cutting, Sewing, Pressing & Folding of | |

| | | |
|-----------|---|--|
| 10. | the following garments with design variations | <ul style="list-style-type: none"> Ladies Tops/Short kurties Ladies suit Night wear (one piece/two piece) Saree blouses |
| 11. | <ul style="list-style-type: none"> Ladies Tops/Short kurties Ladies suit Night wear (one piece/two piece) Saree blouses Checking the Fitting of the garment | <ul style="list-style-type: none"> Ladies Tops/Short kurties Ladies suit Night wear (one piece/two piece) Saree blouses |
| 12. | Kids Wear | Sketching and drafting of the following garments - <ul style="list-style-type: none"> Dresses for new born Dresses for Toddler Dresses for Kids |
| 13. | Pattern Making, Fabric Estimation, | |
| 14. | Cutting, Sewing, Pressing & Folding of | |
| 15. | the following garments with design variations <ul style="list-style-type: none"> Dresses for new born Dresses for Toddler Dresses for Kids Checking the Fitting of the garment | |
| 16. | Gents Wear | Pattern Making, Fabric Estimation, Cutting, Sewing, Pressing & Folding of the following garments with design variations <ul style="list-style-type: none"> Kurta & Pyazama Casual Shirts & Trousers |
| 17. | Pattern Making, Fabric Estimation, | |
| 18. | Cutting, Sewing, Pressing & Folding of | |
| 19. | the following garments with design variations | |
| 20. | <ul style="list-style-type: none"> Kurta & Pyazama Casual Shirts & Trousers Checking the Fitting of the garment | |
| 21. | Methods of removing different kinds of stains in fabrics Checking of garments in respects of – <ul style="list-style-type: none"> Measurements Stitching Stains Defects Correcting measures | Laundry Stains <ul style="list-style-type: none"> Classification Removing techniques Quality Control <ul style="list-style-type: none"> Definition, need & planning Types of Inspection Stages of Inspection Role of Quality Controller |
| 22. & 23. | Industrial Training (2 Weeks) | |
| 24. & 25. | Choose any four garments mentioned above with specification sheet, Pattern & neatly finished garments and present the same. | |
| 26. | Revisions & Examination | |

| Week No. | Trade Practical | Trade Theory |
|----------|-----------------|--------------|
| 1-25 | | |
| 26 | Examination | |

9.3 SYLLABUS CONTENT OF EMPLOYABILITY SKILLS

General Information

| | |
|--------------------------|--|
| Name of the subject | : EMPLOYABILITY SKILLS |
| Applicability | : CTS- Mandatory for all trades ATS- Mandatory for fresher only |
| Hours of Instruction | 110 Hrs. |
| Examination | : The examination shall be held at the end of semesters. |
| Instructor Qualification | <ul style="list-style-type: none"> • MBA or BBA with two years' experience or Graduate in Sociology/ Social Welfare/ Economics with Two years' experience or Graduate/ Diploma with Two years' experience and trained in Employability Skills from ITIs and • Must have studied English/ Communication Skills and Basic Computer at 12th / Diploma level and above or • Existing Social Studies Instructors duly trained in Employability Skills from DGET institutes |
| Instructor | <ul style="list-style-type: none"> • One full-time instructor is required for 1000 seats and above • For seats less than 1000, the instructor may be out sourced/ hired on contract basis. |

Semester-wise Distribution of Topics (Employability Skill)

| Course Duration | Topics | | Examination |
|----------------------------|--|--|---|
| | Semester 1 | Semester 2 | |
| 01 Year (Two semesters) | 1. English Literacy 2. I.T. Literacy 3. Communication Skills | 1. Entrepreneurship Skills 2. Productivity 3. Occupational Safety , Health, and Environment Education 4. Labour Welfare 5. Legislation 6. Quality Tools | Final examination at the end of second semester |

Syllabus Content for Employability Skills

Semester 1

Learning Objectives (1st semester)

- 1.
- 2.

Detailed Syllabus

| | |
|--|--|
| | |
| | |

Semester 2

Learning Objectives (2nd Semester)

- 1.
- 2.

Detailed Syllabus

| | |
|--|--|
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| | |

10. INFRASTRUCTURE

| | |
|---|---|
| 1. Instructors' Qualification | <p>Degree in Fashion & Apparel Technology from recognized College /university with one year experience in the relevant field.</p> <p style="text-align: center;">OR</p> <p>Diploma in Garment fabrication Technology / Costume Design & Dress Making from recognized board of technical education with two years' experience in the relevant field.</p> <p style="text-align: center;">OR</p> <p>NTC/NAC in the Trade of "Sewing Technology" earlier named as 'Cutting & Sewing ' With 3 years post-qualification experience in the relevant field.</p> |
| Desirable qualification | Preference will be given to a candidate with Craft Instructor Certificate under CITS in Sewing Technology Trade. |
| 3. Space Norms | 64 sq m |
| 4. Power Norms | 05 KW |
| 5. Tools, Equipment & General Machinery | (As per Annexure II) |

Note:

- i) Out of two Instructors required for the unit of 2(1+1), one must have Degree/Diploma, and other must have NTC/NAC qualifications.
- ii) The list of Tools, Equipment & General Machinery listed in Annexure – II is for a particular trade Sewing Technology comprising of two semesters and not for a single semester.

11. ASSESSMENT STANDARD

11.1 ASSESSMENT GUIDELINES:

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

Assessment shall be evidence based comprising the following:

- 1) Job carried out in labs/workshop
- 2) Record book/ daily diary
- 3) Answer sheet for assessment
- 4) Viva-voce
- 5) Progress Chart
- 6) Attendance and punctuality
- 7) Assignment
- 8) Project work

Evidence of internal assessment should be preserved for an appropriate period of time for audit and verification by examination body.

The following marking pattern to be adopted while assessing:

- a) Weight age in the range of 60-75% to be allotted during assessment under following performance level:

For performance in this grade, the candidate with occasional guidance and showing due regard for safety procedures and practices, has produced work that demonstrates attainment of an acceptable standard of craftsmanship. In this work there is evidence of:

- Demonstration of good skill in the use of hand tools, machine tools, and workshop equipment
- Below 70% tolerance dimension achieved while undertaking different work with those demanded by the component/job.

- A fairly good level of neatness and consistency in the finish
- Occasional support in completing the project/job.

b) Weightage in the range of above 75%- 90% to be allotted during assessment under following performance level:

For this grade, the candidate, with little guidance and showing due regard for safety procedures and practices, has produced work that demonstrates attainment of a reasonable standard of craftsmanship. In this work there is evidence of:

- Good skill levels in the use of hand tools, machine tools, and workshop equipment
- 70-80% tolerance dimension achieved while undertaking different work with those demanded by the component/job.
- A good level of neatness and consistency in the finish
- Little support in completing the project/job

c) Weightage in the range of above 90% to be allotted during assessment under following performance level:

For performance in this grade, the candidate, with minimal or no support in organization and execution and with due regard for safety procedures and practices, has produced work which demonstrates attainment of a high standard of craftsmanship. In this work there is evidence of:

- High skill levels in the use of hand tools, machine tools, and workshop equipment
- Above 80% tolerance dimension achieved while undertaking different work with those demanded by the component/job.
- A high level of neatness and consistency in the finish.
- Minimal or no support in completing the project.

11.2. INTERNAL ASSESSMENT (FORMATIVE ASSESSMENT)

| Comp. No. | ASSESSABLE OUTCOME | INTERNAL ASSESSMENT Marks |
|-----------|--|---------------------------|
| GENERIC | | |
| | Recognize & comply safe working practices, environment regulation and housekeeping. | |
| | Work in a team, understand and practice soft skills, technical English to communicate with required clarity. | |
| | Understand and explain the concepts of quality tools, and labour welfare legislation and apply such in day to day work to improve productivity & quality. | |
| | Explain energy conservation, global warming, and pollution and contribute in the day to day work by optimally using available resources. | |
| | Explain, entrepreneurship, and manage/organize related task in the day to day work for personal & societal growth. | |
| | Understand and apply basic computer working, basic operating system, and uses internet services to get accustomed & take benefit of IT developments in the industry. | |
| SPECIFIC | | |
| | <p>SEMESTER – I</p> <ul style="list-style-type: none"> ● . Make hand stitches in the given fabric ● Stitch the following using the given fabric <ul style="list-style-type: none"> ○ Seams with seam finishes ○ Dart ○ Pleat ○ Tucks ○ Gathers & Shears ○ Frills ○ Hems ○ Casing ○ Edge Finishing ○ Neck line ○ Placket ○ Pocket ○ Collar ○ Sleeve ○ Cuff ● Fix the fasteners on the given fabric. ● Mend the given fabric ● Draft a pattern for Ladies' Suit | |

| | | |
|--|--|-----------|
| | <ul style="list-style-type: none"> • Sew a Ladies' Suit with the help of the given pattern | |
| | Sub-Total of Internal assessment for Semester- I | 20 |
| | SEMESTER – II <ul style="list-style-type: none"> • Sketch the following garments. <ul style="list-style-type: none"> ○ Ladies' Tops/Short kurthies ○ Ladies' Suit ○ Nightwear (one piece/two piece) ○ Sari Blouse ○ Dresses for New Born ○ Dresses for Toddler ○ Dresses for Kids • Construct the following garments with fitting and quality according the sketched designs <ul style="list-style-type: none"> ○ Sari Petticoat ○ Ladies' Top/Short Kurthies ○ Ladies' Suit ○ Nightwear (One Piece with Yoke) ○ Nightwear (Two Piece – Night suit) ○ Sari Blouse (Simple Model - Plain) ○ Dress for a Newborn (Jhabla) ○ Dress for a Toddler (Sun Suit) ○ Dress for Kids (Frock) ○ Dress for Kids (Frock) ○ Gent's Casual Shirt ○ Gent's Trousers | |
| | Sub-Total of Internal assessment for Semester- II | 20 |
| | Total of Internal Assessment | 40 |

Note: The generic outcome to be assessed along with the specific outcome.

11.3 FINAL ASSESSMENT- All India Trade TEST (SUMMATIVE ASSESSMENT)

- There shall be a single objective type Examination paper for the subjects Engineering Drawing and Workshop Calculation & Science.
- There shall be a single objective type Examination paper for the subjects Trade Theory and Employability Skills.
- The two objective type Examination papers as mentioned above shall be conducted by National Council for Vocational Training (NCVT), whereas examination for the subject Trade Practical shall be conducted by the State Governments. NCVT shall supply the Question Paper for the subject Trade Practical.

| SEWING TECHNOLOGY | | |
|--------------------------|-----------------------------------|---|
| Sl. No. | Subject for the trade test | Maximum marks for the each subject |
| | Practical | 100 |
| | Trade Theory | 80 |
| | Employability Skills | Objective type Written Test of 80 marks (Trade Theory 30Marks & Employability Skills 50 marks) |
| | Internal assessment | 20 |
| TOTAL: | | 200 |

Annexure – I

TRADE : SEWING TECHNOLOGY

LIST OF TOOLS & EQUIPMENT

| Sl. No. | Name of the Article | Quantity (Number) | Approx. Cost (One item) | Approx. Life Span (Years) | For Semester I | For Semester I |
|---|---|-------------------|-------------------------|---------------------------|----------------|----------------|
| A. TRAINEES' TOOL KIT FOR 16 TRAINEES + 1 Instructor | | | | | | |
| 1. | Measuring Tape 150 cm | 17 | 20.00 | 01 | ✓ | ✓ |
| 2. | Seam Ripper | 17 | 20.00 | 01 | ✓ | ✓ |
| 3. | Thimble | 17 | 25.00 | 01 | ✓ | ✓ |
| 4. | Tailor's Card Scale Triangular | 17 | 10.00 | 01 | ✓ | ✓ |
| 5. | Tailors Square – Plastic | 17 | 5.00 | 01 | ✓ | ✓ |
| 6. | French Curve Set of three | 17 sets | 35.00 | 01 | ✓ | ✓ |
| 7. | Thread Cutter | 17 | 20.00 | 01 | ✓ | ✓ |
| 8. | Scale plastic 24" | 17 | 25.00 | 01 | ✓ | ✓ |
| B. Drafting/Cutting /Sewing Room Tools & Equipment | | | | | | |
| 1. | Scissors 25 cm | 17 | 250.00 | 05 | ✓ | ✓ |
| 2. | Pinking Shears | 05 | 250.00 | 05 | ✓ | ✓ |
| 3. | Leg Shaper – Plastic | 17 | 150.00 | 03 | ✓ | ✓ |
| 4. | Garment Hangers | 17 | 30.00 | 03 | ✓ | ✓ |
| 5. | Screw Driver Set | 04 sets | 250.00 | 05 | ✓ | ✓ |
| 6. | Table Sharpener | 04 | 45.00 | 03 | ✓ | ✓ |
| 7. | Pressing Table | 05 | 2000.00 | 10 | ✓ | ✓ |
| 8. | Blanket for padding of Pressing Table | 05 | 500.00 | 03 | ✓ | ✓ |
| 9. | Rubber mat (Size as per requirement) | 05 | 200.00 | 03 | ✓ | ✓ |
| 10. | Sprayer | 05 | 50.00 | 03 | ✓ | ✓ |
| 11. | Waste Bin Big / Small | 10 | 100/150.00 | 01 | ✓ | ✓ |
| 12. | Pattern Punch | 05 | 100.00 | 05 | ✓ | ✓ |
| 13. | Pattern Notcher | 05 | 80.00 | 05 | ✓ | ✓ |
| 14. | Pattern Hanging Stand | 04 | 1000.00 | 05 | ✓ | ✓ |
| 15. | Water Tub 60 cm dia | 01 | 200.00 | 01 | ✓ | ✓ |
| 16. | Stand for hanging dresses | 05 | 1000 | 08 | ✓ | ✓ |
| 17. | Trial room with 3 side mirrors of size 150 cm X 60 cm each with arrangements of hanging Dresses | 01 | 5000.00 | 03 | ✓ | ✓ |

| | | | | | | |
|-----------------------|---|--------------------|-----------|----|---|---|
| 18. | Electric Automatic steam press | 05 | 2000.00 | 08 | ✓ | ✓ |
| 19. | Sewing Machine – Single Needle Lock stitch Industrial model | 16 | 17500.00 | 15 | ✓ | ✓ |
| 20. | Over Lock Machine 3 Thread | 01 | 15000.00 | 15 | ✓ | ✓ |
| 21. | Zig Zag Multi Purpose Machine | 01 | 35000.00 | 15 | | ✓ |
| 22. | Double Needle Machine | 01 | 35000.00 | 15 | | ✓ |
| 23. | Button Hole machine | 01 | 100000.00 | 15 | | ✓ |
| 24. | Button Sewing Machine | 01 | 100000.00 | 15 | | ✓ |
| 25. | Bar Tack Machine | 01 | 100000.00 | 15 | | ✓ |
| 26. | Feed off the arm Double Needle | 01 | 100000.00 | 15 | | ✓ |
| 27. | Machine attachments | As per requirement | 5000.00 | 04 | | ✓ |
| 28. | Chairs with low back rest or stools for the machines | 16 | 1500.00 | 08 | ✓ | ✓ |
| 29. | Drafting Table | 8 | 15000.00 | 12 | ✓ | |
| 30. | Display Board Covered with glass or Acrylic Sheet 120 X 90 cm | 02 | 5000.00 | 12 | ✓ | ✓ |
| 31. | Instructor Table | 01 | 6000.00 | 12 | ✓ | ✓ |
| 32. | Instructor Chair | 02 | 3000.00 | 12 | ✓ | ✓ |
| 33. | Steel Almirah 195 X 90 X 60 cm | 02 | 12000.00 | 12 | ✓ | ✓ |
| 34. | Pigeon hole Almirah 10 lockers & separate locking arrangements for trainees | 02 | 12000.00 | 12 | ✓ | ✓ |
| 35. | Locks for above pigeon hole | 16 | 50.00 | 2 | ✓ | ✓ |
| 36. | Wall Clock | 03 | 400.00 | 3 | ✓ | ✓ |
| 37. | Calculator Desk Type | 01 | 250.00 | 3 | ✓ | ✓ |
| 38. | White Board with accessories (size as per requirement) | 02 | 11000.00 | 10 | ✓ | ✓ |
| 39. | Dummy Lady , men ,kid(different size) | 02 each | 8000.00 | 10 | ✓ | ✓ |
| C. Theory Room | | | | | | |
| 40. | Single desks for trainees with arrangements of keeping Books etc. | 16 | 6000.00 | 10 | ✓ | ✓ |
| 41. | Revolving Chairs without arms | 16 | 3000.00 | 10 | ✓ | ✓ |
| 42. | Faculty Table & Chair set | 01 | 6000.00 | 12 | ✓ | ✓ |
| 43. | Computer set with UPS & multimedia projector | 01 | 50,000.00 | 7 | ✓ | ✓ |
| 44. | White Magnetic Board with Felt board & accessories | 01 | 11000.00 | 10 | ✓ | ✓ |
| 45. | Display Board | 02 | 5500.00 | 10 | ✓ | ✓ |
| 46. | Storage Almirah | 01 | 12000.00 | 12 | ✓ | ✓ |
| 47. | Book Shelf | 01 | 10000.00 | 10 | ✓ | ✓ |

| | | | | | | |
|-----|---|--------------------|----------|---|---|---|
| 48. | A/C unit split type 2 TR capacity with Stabilizer | As per requirement | 35000.00 | 6 | ✓ | ✓ |
|-----|---|--------------------|----------|---|---|---|

Note:

- The quantity of hand Tools may be suitably increased as per the number of supernumeries admitted in a unit.
- Trainees Tool kit may be treated as consumables in respect of trainees actually completing the course of one year (both the semesters) duration.

Note:

1. Due to the rapid changes in the technologies frequent Modernization of equipments and technologies is necessary.
2. Training Programme for Staff should be organized in the new fields added in the curriculum for the proper implementation of the same.
3. Experts from the Industry may be called for special lectures and demo's as and when required.

Trade testing and certification:

After Completion of the course a trainee will be awarded NCVT certificate of Sewing Technology under CTS .

Further Learning Pathway:

- addition NCVT certificates in the Dress Making by doing the second semester since the first semester is common with Sewing Technology.
- higher qualification under CITS.
- Following MES courses to improve their skill areas –
 - Apparel Production Supervisor
 - Fashion Accessories Designer
 - Apparel quality & compliance
 - Software application in Pattern Making
 - Maintenance of machines in Garment Secto

ANNEXURE-II

GUIDELINES FOR INSTRUCTORS AND PAPER SETTERS

1. All questions of theory paper for the trade will be in objective type format.
2. Due care to be taken for proper & inclusive delivery among the batch. Some of the following method of delivery may be adopted:
 - a. Lecture
 - b. Lesson
 - c. Demonstration
 - d. Practice
 - e. Group discussion
 - f. Discussion with peer group
 - g. Project work
 - h. Industrial visit
3. Maximum utilization of latest form of training viz., audio visual aids, integration of IT, etc. May be adopted.
4. The total hours to be devoted against each topic may be decided with due diligence to safety & with prioritizing transfer of required skills.
5. Questions may be set based on following instructions:-

| Sl. No. | Question on different aspect | Weightage in %age | Key Words may be like |
|---------|------------------------------|-------------------|---|
| 1 | Information received | 25 | What, Who, When |
| 2 | Knowledge | 50 | Define, Identify, Recall, State, Write, List & Name |
| 3 | Understanding | 15 | Describe, Distinguish, Explain, Interpret & Summarize |
| 4 | Application | 10 | Apply, Compare, Demonstrate, Examine, Solve & Use |

6. Due weightage to be given to all the topics under the syllabus while setting the question paper.

11. LIST OF TRADE COMMITTEE MEMBER

| Sector : Textile & Apparel | | | |
|----------------------------|--|---|-----------------|
| Mentor Councils | | | |
| Sl. No. | Name of the member with Post (Shri /Smt/Ms) | Organisation | Position in SMC |
| 1 | <i>Mr. S. Venkatesh, Head HR & Admin</i> | <i>Raymond</i> | Member |
| 2 | <i>Mr. Sanjeev Mohanty Managing Director</i> | <i>Bennetton India Pvt. Ltd., Gurgaon</i> | Member |
| 3 | Mr. Animesh Saxena | Udyog Vihar Industries Association, Gurgaon B-40, Phase 5, Udyog Vihar Gurgaon-122017 | Member |
| 4 | <i>Dr. Darlie Koshy Director General and CEO</i> | <i>IAM & ATDC Apparel Export Promotion Council Gurgaon</i> | Chairman |
| 5 | Mr. Arindam Das | National Institute of Fashion Technology, New Delhi | Member |
| 6 | Dr. Kushal Sen Professor | D/o Textile Technology IIT Delhi | Member |
| 7 | Mr. Bhattacharya. G HOD Textiles Department | Institute for Textile Technology, CHOUDWAR | Member |
| 8 | <i>Ms. Poonam Thakur Professor & Academic Head</i> | <i>NIIFT, Mohali</i> | Member |
| 9 | Mr. L.N. Meena, Lecturer | <i>Arya Bhatt Polytechnic, Delhi</i> | Member |
| 10 | Mr. Prabhas Kashyap , General Manager- Planning & Production Co-ordination | Gokaldas Export Ltd., Bangalore | Member |
| 11 | Bishwanath Ganguly | Madura Fashion & Retail, Aditya Birla Centre for Retail Excellence (A B C R E) | Member |

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| 12 | K.N. Chatterjee, HOD Fashion and Apparel Engineering | THE TECHNOLOGICAL INST. OF TEXTILE & SCIENCES, Bhiwani, Haryana, INDIA-127021. | Member |
| 13 | Tapas Kumar Adhikari, Sr. Manager | Reliance Industries Ltd. | Member |
| 14 | Vikas Verma, Asst. Vice President | Welspun India Ltd. | Member |
| 15 | Navjot Walia, Vice President | Maral Overseas Ltd., Noida | Member |
| 16 | Rajeev Mehani, Vice President | Vardhaman Textiles | Member |
| Mentor | | | |
| 17 | Mr.R.P. Dhingra, Director (P) | DGE&T | Mentor |
| Core Group | | | |
| Sl. No. | Name of the member with Designation (Shri /Smt/Ms) | Institute | Position in SMC |
| 18 | Mr. Haradhan Das, TO | CSTARI, Kolkata | Member |
| 19 | Mr. Subhankar Bhowmik, DPA Gr. B | NIMI, Chennai | NIMI Representative |
| 20 | Mr. Rajendra Kumar, JDT(WT) | DGE&T | Member |
| 21 | Ms. D. Shanthi, ADT | RVTI, Trivendrum | Member |
| 22 | Ms. Abha Rastogi, TO | RVTI, Panipat | Member |
| 23 | Ms. Chitra, TO | RVTI, Panipat | Member |
| 24 | Ms. Rinku Soni, TO | RVTI, Jaipur | Member |
| 25 | Ms. Babita, TO | NVTI, Noida | Member |
| 26 | Ms. Bhagyashree, TO | RVTI, Indore | Member |
| 27 | Mr. L. R. Ramesh Babu, TO | RVTI, Trivendrum | Member |
| 28 | Mr. S.S. Meena, TO | NVTI, Noida | Member |

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| 29 | Mr. Bhavin Kumar M. Solanki | ITI, Jambughoda, Gujarat | Member |
| 30 | Mrs. Divya, TO | RVTI, Bangalore | Member |