SYLLABUS OF SEMESTER SYSTEM FOR THE TRADE OF

Sewing Technology

Under

Craftsmen Training Scheme (CTS) (One year/Two Semesters)

Redesigned in 2014

Government of India
Ministry of Labour & Employment (DGE&T)

GENERAL INFORMATION

1. Name of the Trade : Sewing Technology

: 7433.10 2. NCO Code

3. **Duration of craftsmen Training**

One year (2 Semesters)
Passed 10th class Under 10+2 4. Entry Qualification

System of examination

: 16 trainees 5. Unit Strength

6. Space Norms : 64 sq m (4 Sq.m/trainee)

7. Power Norms : 05 kw

8. Instructor's Qualification : i. NTC/NAC in sewin technology(earlier

trade name as "cutting & sewing")

with three years

Experience in relevant field

Or

Garment fabricating ii. Diploma in

technology / costume design

with Two years' Experience in relevant

field

Or

iii. Degree in Fashion & apparel

Technology With one year experience

in relevant field

9. Desirable Qualification : Preference will be given to a candidate

> With Craft Instructors Training certificate (CITS) in Cutting & Sewing (earlier trade

name as "cutting & sewing")

Note: Out of two instructors required for the unit 1+1, one must have Degree/Diploma & other must have NTC/NAC qualifications

OBJECTIVE OF THE COURSE:

To create skilled work force for Self Employment/Working in garment manufacturing Industry as –

- Sewing Machine Operator
- Assistant to Designer
- Assistant worker in Boutique
- Sample room designer
- Sample Coordinator

Syllabus for the trade of "**Sewing Technology"** under craftsmen training scheme

First Semester (Common for Sewing Technology & Dress Designing)

Semester code no. : sewing tech. - 01

Duration: Six months

| Week No. | Trade Practical | Trade Theory |
|-------------|---|---|
| 1. | Familiarization with the Institute. | Introduction |
| 2. | Familiarization & handling of tools. Safety Precautions while handling the tools. | Basic Industrial Terminology Trade related Tools, their importance, usage and safety • Measuring Tools • Drafting Tools • Marking Tools • Cutting Tools • Sewing Tools • Finishing Tools |
| 3. | Identification of fabrics and texture Handling of Fabrics Making weave samples | Fabric Fundamentals |
| 4. | Practice on Industrial Single needle lock stitch Sewing Machine • Ergonomic principle of sitting on sewing machine • Speed Control • Practice on paper • Threading of machine • Bobbin winding & loading • Practice on fabric | Basic Sewing Machine Parts and functions Machine needle Stitch formation Sewing machine practice Care and maintenance Trouble Shooting Types of Industrial Sewing Machine |
| 5. | Running on | Over lock machine |

| | Straight lines | Parts and functions Machine and the second |
|-------|--|---|
| | • Square | Machine practice |
| | Zig zag lines Girala | Care and maintenance Trouble Shooting |
| | • Circle | Trouble Shooting |
| | Semi circle | |
| | • Spiral | Basic Garment Analysis |
| | Practice on Over lock machine | basic darrierit Ariatysis |
| | Threading Running | |
| | Running Minor adjustments | |
| 6. | Minor adjustments Practice of making Seams | Seams |
| 0. | Plain Seam (Straight & Curved) with | Classification |
| | seam finishes | Uses |
| | Self Enclosed seams | OsesProperties of Seams |
| | Top stitched seams | Seam finishes |
| | Corded Seam | Sewing Aids |
| | Decorative seams | Presser foots |
| | Practicing with Sewing Aids | • Folders |
| | Tractically with sewing ries | • Guides |
| 7. | Making Samples of | Introducing Fullness |
| / . | Darts | Darts – Necessity, type & |
| | • Pleats | precautions during stitching |
| | rieats | Pleats – Necessity, type & uses |
| 8. | Making Samples of | Introducing Fullness |
| | • Tucks | Tucks – Types & use |
| | Gathers and Shirrs | Gathering and Shirring |
| | • Frills | • Flare |
| | 1146 | Ruffles/Frills – Types (Straight & |
| | | Circular) & uses |
| 9. | Practice of Hand stitches & Making | Hand stitches |
| & | Samples of them | Hand needles – Size & types |
| 10. | | Sewing Thread |
| | | Types & Applications of hand |
| | | stitches |
| 11. | Making samples of | Hems |
| | Faced Hem | • Types |
| | Edge stitched hem | • Uses |
| | Double stitched hem | Caman Makinan |
| | Band hem | Corner Makings |
| | • Ease in a hem | • Types |
| | Mitered hem | • Uses |
| | Practice of the corner makings | |
| | Self turned | |
| 12 | With additional strip Making samples of | Casing |
| 12. | Making samples of | Casing |
| & 13. | Casing with plastic | Introduction |
| | Casing with elastic | • use |

| | | 1 |
|-----|---|---|
| | Casing with heading Inside applied casing Outside applied casing Making samples of edge finishing Bias facing Combination shaped facing Outside facing Self facing Shaped facing Binding Piping | Edge Finishing |
| 14. | Making samples of different shaped necklines | Necklines • Different shapes of neckline |
| 15. | Samples of making samples of Plackets | Plackets |
| 16. | Samples of making different Pockets | Pockets |
| 17. | Samples of making Collars | Collars |
| 18. | Samples of making Sleeves | Sleeves |
| 19. | Practice of fixing fasteners as Buttons, Hooks, Eyes, Press Studs Practice of making Button holes by Hand Practicing Darning and Patching | Trimmings |
| 20. | Stitching of Ladies suit | Drafting & developing Pattern for Ladies suit |

| 21. & 22. | Industrial Training (2 weeks). | |
|--------------|---|--|
| 23. | Project Work | |
| | Prepare Minimum three Basic Dresses using the skills learned like Apron, Baby set, | |
| | A-Line Frock etc. | |
| 24& | Employability skill | |
| 25. | Employability skill | |
| 26. | Examination | |

Syllabus for the trade of "**Sewing Technology"** under craftsmen training scheme

Second Semester

Semester code no.: Duration: Six months

| Week No. | Trade Practical | Trade Theory |
|-------------|---|---|
| 1. | Revision of work done in Semester I Practice of taking Body Measurements | Human Figures |
| 2. | * Practicing different types of layout using the given patterns | Patterns |
| 3. | Pattern Making, Fabric Estimation, Cutting, Sewing, Pressing & Folding of Saree Petticoat. Checking the Fitting of the garment | Pressing |
| 7. | Practice on special industrial sewing machines – • 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 – Sequence of operations Types of cutting machines Fusing Technology Types of Industrial Machines Used in sewing section Finishing |

| 9. 10. 11. | Pattern Making, Fabric Estimation, Cutting, Sewing, Pressing & Folding of the following garments with design variations • Ladies Tops/Short kurties • Ladies suit • Night wear (one piece/two piece) • Saree blouses Checking the Fitting of the garment | Sketching and drafting of the following garments - • Ladies Tops/Short kurties • Ladies suit • Night wear (one piece/two piece) • Saree blouses | |
|--------------------------------|--|--|--|
| 12. 13. 14. 15. | Kids Wear Pattern Making, Fabric Estimation, Cutting, Sewing, Pressing & Folding of the following garments with design variations • Dresses for new born • Dresses for Toddler • Dresses for Kids Checking the Fitting of the garment | Sketching and drafting of the following garments - • Dresses for new born • Dresses for Toddler • Dresses for Kids | |
| 16 17. 18. 19. 20. | Gents Wear Pattern Making, Fabric Estimation, Cutting, Sewing, Pressing & Folding of the following garments with design variations • Kurta & Pyazama • Casual Shirts & Trousers Checking the Fitting of the garment | Pattern Making, Fabric Estimation, Cutting, Sewing, Pressing & Folding of the following garments with design variations • Kurta & Pyazama • Casual Shirts & Trousers | |
| 21. | Methods of removing different kinds of stains in fabrics Checking of garments in respects of — • Measurements • Stitching • Stains • Defects • Correcting measures | Laundry Stains Classification Removing techniques Quality Control Definition, need & planning Types of Inspection Stages of Inspection Role of Quality Controller | |
| 22. & 23. 24. & | Industrial Training (2 Weeks) | | |
| 24. & | Choose any four garments mentioned above with specification sheet, Pattern & neatly finished garments and present the same. | | |
| 26. | Revisions & Examination | | |

TRADE: SEWING TECHNOLOGY

LIST OF TOOLS & EQUIPMENT

| Sl. No. | Name of the Article | Quantity | |
|---------|---|----------|--|
| | | (Number) | |
| | TRAINEES' TOOL KIT FOR 16 TRAINEES + 1 Instructor | | |
| 1. | Measuring Tape 150 cm | 17 | |
| 2. | Seam Ripper | 17 | |
| 3. | Thimble | 17 | |
| 4. | Tailor's Card Scale Triangular | 17 | |
| 5. | Tailors Square – Plastic | 17 | |
| 6. | French Curve Set of three | 17 sets | |
| 7. | Thread Cutter | 17 | |
| 8. | Scale plastic 24" | 17 | |
| | Drafting/Cutting /Sewing Room Tools & Equipment | | |
| 1. | Scissors 25 cm | 17 | |
| 2. | Pinking Shears | 05 | |
| 3. | Leg Shaper – Plastic | 17 | |
| 4. | Garment Hangers | 17 | |
| 5. | Screw Driver Set | 04 sets | |
| 6. | Table Sharpener | 04 | |
| 7. | Pressing Table | 05 | |
| 8. | Blanket for padding of Pressing Table | 05 | |
| 9. | Rubber mat (Size as per requirement) | 05 | |
| 10. | Sprayer | 05 | |
| 11. | Waste Bin Big / Small | 10 | |
| 12. | Pattern Punch | 05 | |
| 13. | Pattern Notcher | 05 | |
| 14. | Pattern Hanging Stand | 04 | |
| 15. | Water Tub 60 cm dia | 01 | |
| 16. | Stand for hanging dresses | 05 | |
| 17. | Trial room with 3 side mirrors of size 150 cm X 60 cm each with arrangements of hanging Dresses | 01 | |
| 18. | Electric Automatic steam press | 05 | |
| 19. | Sewing Machine – Single Needle Lock stitch Industrial model | 16 | |
| 20. | Over Lock Machine 3 Thread | 01 | |
| 21. | Zig Zag Multi Purpose Machine | 01 | |
| 22. | Double Needle Machine | 01 | |
| 23. | Button Hole machine | 01 | |
| 24. | Button Sewing Machine | 01 | |
| 25. | Bar Tack Machine | 01 | |
| 26. | Feed off the arm Double Needle | 01 | |

| 27. | Machine attachments | As per |
|-----|---|---------|
| | | require |
| | | ment |
| 28. | Chairs with low back rest or stools for the machines | 16 |
| 29. | Drafting Table | 8 |
| 30. | Display Board Covered with glass or Acrylic Sheet 120 X 90 cm | 02 |
| 31. | Instructor Table | 01 |
| 32. | Instructor Chair | 02 |
| 33. | Steel Almirah 195 X 90 X 60 cm | 02 |
| 34. | Pigeon hole Almirah 10 lockers & separate locking arrangements for trainees | 02 |
| 35. | Locks for above pigeon hole | 16 |
| 36. | Wall Clock | 03 |
| 37. | Calculator Desk Type | 01 |
| 38. | White Board with accessories (size as per requirement) | 02 |
| 39. | Dummy Lady , men ,kid(different size) | 02 each |
| 40. | Theory Room | |
| 41. | Single desks for trainees with arrangements of keeping Books etc. | 16 |
| 42. | Revolving Chairs without arms | 16 |
| 43. | Faculty Table & Chair set | 01 |
| 44. | Computer set with UPS & multimedia projector | 01 |
| 45. | White Magnetic Board with Felt board & accessories | 01 |
| 46. | Display Board | 02 |
| 47. | Storage Almirah | 01 |
| 48. | Book Shelf | 01 |
| 49. | A/C unit split type 2 TR capacity with Stabilizer | As per |
| | | require |
| | | ment |

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
 - o Apparel Production Supervisor
 - Fashion Accessories Designer
 - Apparel quality & compliance
 - o Software application in Pattern Making
 - Maintenance of machines in Garment Sector.