

Redesigned modules for the Sector

Of

GARMENT

Under

MODULAR EMPLOYABLE SKILLS (MES)

Redesigned in 2014

By

Government of India
Central Staff Training and Research Institute
Directorate General of Employment & Training
Ministry of Labour & Employment (DGET)

General Information for Hand Embroider

Name of Sector	Garment
Name of Module	Hand Embroider
MES Code	GAR - 501
Competency as per NCO Code	After completion of the course the trained person would be able to make decorative handicrafts, do embroidery at necklines, yokes, sleeves, kameez etc.
Duration of Course	520 Hrs
Entry Qualification of Trainee	5th Pass
Unit Size	20
Power Norms	2 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> Practice Health & Safety – select, use, maintain & store – tools, equipments & clothing safely Practice of basic stitches (Flat, Knot & Loop Stitches) Application of decorative stitches To design & practice motifs, floral designs, geometrical design and to finish with various decorative stitches Practice of Transferring Designs to different fabrics Practice on different types of embroidery works like zardozi, ribbon, beads, mirror work etc. 	<ul style="list-style-type: none"> Importance of hand embroidery Knowledge of hand Embroidery Tools Knowledge of different Basic & Decorative stitches Method of Transferring a Design. Safety precaution to be taken while using Embroidery Tools Knowledge of Accessories used in Embroidery

TOOLS AND EQUIPMENTS FOR A BATCH OF 20 TRAINEES.

S.NO.	DESCRIPTION	QUANTITY
1.	Embroidery Needle	20
2	Tracing Paper	20
3	Embroidery Frame	20
4	Big & Small trimming scissors	20
5	Trimmers	20
6	Seam Ripper	20
7	Embroidery Threads	As required
8	Sequences, Beads, Mirrors etc	As required
9	Electric Iron	01
10	Press Stand	01 Embroider

General Information for Zig-Zag machine embroidery

Name of Sector	Garment
Name of Module	Zig-Zag machine embroidery
MES Code	GAR 502
Competency as per NCO Code	The candidate would be able to perform Machine Embroidery on fabric and garments
Duration of Course	680 hrs
Entry Qualification of Trainee	8th Pass
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	2. Graduate in Apparel related subject having Embroidery & traditional craftsmanship as a subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	2. Craft Instructor Certificate in any trade of garment Sector (Embroidery)

<ul style="list-style-type: none"> • Practical Competencies 	<ul style="list-style-type: none"> • Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Practice Health & Safety – select, use, maintain & store – tools, equipments & clothing safely • Practice of embroidery on machine. • Control of the machine & movement balance To apply different decorative stitches with the help of a special embroidery sewing machine 	<ul style="list-style-type: none"> • Introduction To Zig-Zag Machine • Basic Parts& Functions • Set the machine for embroidery • Threading a Machine • Winding a Bobbin • Frame fitting and its precautions • Defects and Remedies

<ul style="list-style-type: none"> • Techniques of transferring the design on the fabric • Practising and Sample making Of: • Zig – zag line • Dotted line • Scallops • Running Stitch • Running Shade • Satin Stitch • Cording Stitch • Back Stitch • To sew various designs like Motifs, Logo, Monogram, Appliqués, Animal designs 	<ul style="list-style-type: none"> • Knowledge of different needles & threads and its uses • . • Method of transferring a design • precautions to be taken while working on machine
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Tools & Equipment for a batch of 20 trainees

Sl. No	Description	Quantity
1.	Frames (Assorted Size)	20
2.	Embroidery machine	20
3.	Machine Needles	As required
4.	Threads	As required
5.	Thread Trimmer	20
6.	Seam ripper	20
7.	Measuring Tape	20
8.	Steam iron	01
9.	Iron Stand	01
10.	Tracing Table	01
11.	Scissors	05

General Information for Apparel Fuser, Packer and Ironer Operator

Name of Sector	Garment
Name of Module	Garment Packer / Ironer /Fusing Technician
MES Code	GAR 505
Competency as per NCO Code	The Candidate would be able to operate fusing machine with proper control of time, temperature & pressure, check the quality of fusing, Iron various garments in any Garment Industry using different types of iron and also be able to remove stains, spots and give a good finish look to the garment and pack them with quality.
Duration of Course	360 Hrs
Entry Qualification of Trainee	5 th Pass
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	3. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Practice Health & Safety – select, use, maintain & store – tools, equipments & clothing safely • Set the time, temperature and the speed of the fusing • Setting and feeding the materials to feeding machine • Checking the quality of fusing manually. • Report the deviations if any immediately. • Practice of Ironing the garments as per fold to the specified size. • Practice of ironing with steam pressing, Dummy boiler etc. • To practice folding of garments • To practice packing color wise, tags, and 	<ul style="list-style-type: none"> • Safety precautions while handling various types of irons. • Requirements of fusing and the quality expectations. • Types of fusing material & fusing Technique • Knowledge styles being worked in batches & terminology • Identification and traceability of the materials received and issued. • Basic disciplines in the industry • Communication and reporting • Safety precautions in fusing operations and garment factory • Knowledge of ironing tools & Equipment. • Stains - Types, procedure of removing and chemical used in the Industry. • Knowledge of threads sucking machine, spot cleaning machine, needle detector & quality aspect. • Knowledge of Color, Texture, Fabric • Knowledge of various accessories. • Packing procedure. • Knowledge of quality aspects, loose threads, broken buttons, fabric defects etc.

<p>trademarks, labels, to pack in poly bags, cardboard cartoons.</p> <ul style="list-style-type: none"> • Practice on needle detector machine. • Quality control • Mock drills – fire fighting and first aid 	<ul style="list-style-type: none"> • Knowledge of packing ratio as per specification sheet.
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TOOLS AND EQUIPMENTS FOR A BATCH OF 20 TRAINEES.

S.NO.	DESCRIPTION	QUANTITY
1.	Tables	5
2.	Small Scissors	5
3.	Trimmers	5
4.	Seam Rippers	5
5.	Fabric checking machine	1
6.	Pressing Table	5
7.	Automatic Iron	5
8.	Steam Iron	5
9.	Vacuum Table	5
10.	Metal Detector machine	1
11.	Stain Removing equipment	1
12.	Sleeve Board	5
13.	Packing Material	20 set
14.	Fusing Machine	1

General Information for Industrial Sewing Machine Technician

Name of Sector	Garment
Name of Module	Industrial Sewing Machine Technician
MES Code	GAR 504
Competency as per NCO Code	The candidate would be able to repair & maintain various machinery for Garment making, trouble shooting and to fix and change special attachments & able to handle all maintenance activity in Garment factory
Duration of Course	360 Hrs
Entry Qualification of Trainee	8 th Pass
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room Room	
Instructors Qualification	<ol style="list-style-type: none"> 2. Two years diploma in mechanical Engineering . or 3. ITI in Fitter Trade with 2 years of experience. Or 4. Diploma/ certificate course in Industrial sewing machine technician with 2 years of Experience.
Desirable Qualification	4. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> <input type="checkbox"/> Practice Health & Safety – select, use, maintain & store – tools, equipment & clothing Safety <input type="checkbox"/> Machine control <input type="checkbox"/> Opening the machines for maintenance <input type="checkbox"/> Installation on single needle, double needle, over lock, high-speed sewing machines, cutting machine, fusing machine & finishing machinery. <input type="checkbox"/> Installation of Special machine. <input type="checkbox"/> Practice of stitches per inches, changing of needles, changing of special attachments & fixing <input type="checkbox"/> Checking the conditions of parts in each mechanism <input type="checkbox"/> Servicing the parts <input type="checkbox"/> Follow up for Annual Maintenance from the service engineer <input type="checkbox"/> Mock drill on fire fighting and first aid 	<ul style="list-style-type: none"> • Introduction of machinery & Knowledge about the various sewing machines and the mechanisms • Parts of machine & accessories. • Measurement – inches, centimeters, yards & meters. • Lubrications. • Needle attachments. • Trouble shooting like Skip stitch, loop stitch, tension loose, tension tight, etc. • General repairs oiling & maintenance of machine & safety. • Standard maintenance practices. • Basic disciplines in the industry • Safety precautions & First aid and fire fighting • Soft Skills

General Information for Computerized Embroidery Techniques

Name of Sector	Garment
Name of Module	Computerized Embroidery Techniques
MES Code	GAR 603
Competency as per NCO Code	The candidate would be able to perform Machine Embroidery on Fabrics & garments for children, women & Men and candidate would be able to operate Computerized embroidery machines
Duration of Course	360 Hrs
Entry Qualification of Trainee	8th Pass
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field.
Desirable Qualification	2. Craft Instructor Certificate in any trade of Apparel Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> Practice Health & Safety – select, use, maintain & store – tools, equipments & clothing safely Familiarisation with machine & Software Start & Shut down Process of Machine. Practice of stitches by running Computer Embroidery machine. Practice of Machine Operations to sew various designs like Motifs, Logo, Monogram, Appliqués, Animal designs Practice of Changing Needles & needle control according to design. Machine oiling & maintenance. Hooping Practice for different sizes of embroidery & allover embroidery. Operating of panel board and design loading. Marking & Placement of Designs. Practice of running designs Practicing of different sizes of needles on different fabrics(denim, cotton, lycra). Practicing on different GSM non woven requirements. Bobbin threads & different denier threads usage, zero threads- in thread tensioning. 	<ul style="list-style-type: none"> Knowledge of different machines with number of heads & colors. Knowledge of Trade related tools & their Importance Different types of needles. Different denier threads used on different types of fabric. Basic maintenance of the machine. Measurements/repeats of embroidery. Color basics. Knowledge of different types of embroidery sequence, cording, boring, Beads etc Attachments) Safety precautions.

Tools & Equipment for a batch of 20 trainees

Sl No.	Description	Quantity
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1.	Computerized multi head Embroidery Machines	02
2.	Computer System	01
3.	Frames set / Framing Table	10
4.	Trimmers	20
5.	Tool kit	20
6.	Measuring Tape	20
7.	Scissors Embroidery	05
8.	Scissors cutting	05

General Information for Apparel Finisher & Checker

Name of Sector	Garment
Name of Module	Apparel Finisher & Checker
MES Code	GAR 503
Competency as per NCO Code	The candidate would be able to check garments at Fabric level, Stitching level and Finished Product level. Identify the defective panels and remove them. Mark them suitably to segregate them. After training the trainee would be able to sort the numbered cut panels and supply to issuer in cutting section The Candidate would be able to Iron various garments in any Garment Industry using different types of iron. He/ she would also be able to remove stains, spots and give a good finish look to the garment.
Duration of Course	360 Hrs
Entry Qualification of Trainee	8 th Pass
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	5. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	5. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> <input type="checkbox"/> Understanding the spec-chart of garments and preparing checklist. <input type="checkbox"/> Familiarization with rules of Finishing. <input type="checkbox"/> Familiarization of check points. <input type="checkbox"/> Checking and identifying Defects. <input type="checkbox"/> Reporting the findings <input type="checkbox"/> To check the Fabric for defects, check the stitching, accessories, finished garments and approving or rejecting the finished product. <input type="checkbox"/> Quality & its importance <input type="checkbox"/> Checking the numbered panels for quality And Putting stickers depending on the type of defect observed <input type="checkbox"/> Segregating the defective panels that are not suitable for production. <ul style="list-style-type: none"> • Familiarization with rules of Finishing. <input type="checkbox"/> Quality Control & its importance <input type="checkbox"/> Practice Health & Safety – select, use, maintain & store – tools, equipment & clothing safely <ul style="list-style-type: none"> • Practice folding of garments. <input type="checkbox"/> Practice packing color wise, tags, and trademarks, labels, to pack in poly bags, cardboard cartoons. <input type="checkbox"/> Practice on needle detector machine. <input type="checkbox"/> Practice of Ironing the garments as per fold to the specified size. <input type="checkbox"/> Practice of ironing in steam pressing, dummy blowers. 	<ul style="list-style-type: none"> • Knowledge about garment as per comfort, occasion and season. Importance & Uses. • Understanding the spec-sheet and general information of inspecting the final garments. • Basic fabric defects and cutting defects, their criticality in garment • Knowledge about various fabrics, trims, accessories, stitching, and quality control. • Specification sheet & its importance • Defects classification in fabric stitching, stains etc. • Measurements, quality principles, Basic disciplines in the industry • Safety Precautions to be followed for stitching. • Knowledge of Color, Texture, Fabric Knowledge of various accessories. • Packing procedure. Knowledge of quality aspects, loose threads, broken buttons, fabric defects etc. • Knowledge of packing ratio as per • Specification sheet, knowledge of ironing & needle detector. • Knowledge of threads sucking machine, spot cleaning machine & quality aspect • Safety precautions while handling various types of irons.

	<ul style="list-style-type: none"> • Soft Skills
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TOOLS AND EQUIPMENTS FOR A BATCH OF 20 TRAINEES.

S. No.	Description	Quantity
1	Mannequins and dress forms	10
2	Checking Tables	5
3	Dummy	5
4	Seam Rippers big& small trimming scissors,	20
5	Trimmers etc.	20
6	Light Box/Light Room	5
7	Stickers	As needed
8	Iron Table	5
9	Spotting Guns	5
10	Clippers	5
11	Tag Guns	20
12	Thread Suckers	20
13	Needle detector	5
14	Automatic Iron	5
15	Steam Iron	5
16	Sample Garments	20
17	Pressing table	5
18	Vacuum table	1
19	Sleeve board	1

General Information for Visual Merchandising

Name of Sector	Garment
Name of Module	Visual Merchandising
MES Code	GAR 506
Competency as per NCO Code	After completion of the course the trained person would be able to work in garment production department as Line Quality Controllers, I.E. Executives, Production Coordinators or Merchandisers
Duration of Course	680 Hrs
Entry Qualification of Trainee	8th
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	2. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<p>Exercises on</p> <ul style="list-style-type: none"> • Fundamentals of Grammar • Business Letter • Aids to correct writing 	<p>Introduction to Soft Skills and Communication Skills –</p> <ul style="list-style-type: none"> • Fundamental of grammar and usage. • Introduction to Business Communication. • Types of Business Letter. • Aids to correct writing.
<p>Exercises on Communication and Group discussion</p>	<p>Listening Skills –</p> <ul style="list-style-type: none"> • 7^C of Communication • Role of Communication • Types of Communication.
<p>Practice of Internet surfing</p>	<p>Introduction to Internet Basics Techniques of attending Interviews. Self Managements and Personality development.</p>
<p>Exercises on</p> <ul style="list-style-type: none"> • Color & Texture • Line & Composition • Light & Lighting • Display & display setting 	<p>Introduction - logistics Explanation of projects Why do we Display Selection of display team & project lottery. Line & Composition. Light & Lighting. Types of Display & Display setting</p>
<p>Exercises on</p> <ul style="list-style-type: none"> • Display Window • Display Interior • Store Exterior 	<p>Career Opportunities in Visual merchandising The Exterior of the Store. Display window construction Store Interior</p>
<p>Working with</p> <ul style="list-style-type: none"> • different types of Mannequins. • alternative to the Mannequins. • Visual Merchandising Fixtures. • Dressing Fixtures & modular Fixtures. 	<p>Knowledge of</p> <ul style="list-style-type: none"> • Mannequins • Alternative to mannequins • Dressing in three dimensional forms. • Fixtures –Visual merchandising & Dressing. • Modular Fixtures and systems in store Planning.

<ul style="list-style-type: none"> • Store Planning • Furniture as Props <p>Dressing in three dimensional forms.</p> <p>Project & Exercises on selling Ideas.</p> <p>Exercises on -</p> <ul style="list-style-type: none"> • Display of Fashion Accessories • Photo Project. • Display Window • Store Planning & Designing. • Visual presentations. • Computer Rendering. • Graphic & Digital Imaging. • Fashion Styling. • Typography & Design 	<ul style="list-style-type: none"> • Field Trip assignments • Attention getting devices. • Symbols, Masking and Proscenia. • Sale Ideas. • Fashion accessories, Home fashion , Hard Goods. • Food Displays • Graphics & Sinages. • Small item display • Visual Merchandising Planning • Display window report. • Setting display in shop • Store Planning & Design • Visual Presentations. • Computer Rendering • Computer graphics & digital Images • Fashion Styling • Typography & Design
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TOOLS AND EQUIPMENT FOR A BATCH OF 25 TRAINEES

S No.	Description	Quantity
1.	Digital contents for Communication Skills & Personality Development	
2.	Digital contents for Health & Hygiene	
3.	Computer systems with related Soft wares and Internet facility	05
4.	Printer A3 Color	01
5.	Scissor 10"	20
6.	Display Units assorted Design	05
7.	Lights assorted Design & Color	10
8.	Dummies	05

9.	Mannequins	05
10.	Sketching File	20

General Information for Ornamentalist – Bead work for Garment

Name of Sector	Garment
Name of Module	Ornamentalist – Bead work for Garment
MES Code	GAR507
Competency as per NCO Code	After training the trainee would have knowledge of different types of beads, and be able to sort the beads, sewing them or to fix with suitable adhesives to get the required design. The trainee can work independently
Duration of Course	520 Hrs
Entry Qualification of Trainee	5th
Unit Size	20
Power Norms	3 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	2. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Understanding the bead work requirement of the garments. • Selecting the correct beads to get the required special effects. • Fixing the panels, garments and fabric in the frames of required size. • Marking the bead fixing points as per the design given. • Sewing the beads with required thread as per the design. • Pasting the beads as required by using the suitable adhesive, or by heat treatment depending on the type of bead. . 	<ul style="list-style-type: none"> • Knowledge of different varieties of beads, sequins, shells, pearls, and other ornamental materials used in garments and Sarees. • Knowledge about importance of Bead work and ornamentation. • Understanding of different traditional motifs, fabrics and threads. • Different methods of ornamentation. • Identification and traceability of the materials received, and maintaining the records of receipts, productions and deliveries, and also cash transactions. • Basic disciplines in the industry • Communication and data presentation • First aid and fire fighting

TOOLS AND EQUIPMENT FOR A BATCH OF 25 TRAINEES

SI NO.	Description	Quantity
•	• Beads	• As needed
•	• Adhesives, sewing threads, Frames, • Mock-up, heat sealers	• As needed
•	• Production Register	• 20
•	• Thimble, Needle threader, trimmer	• 20 sets

General Information for Ornamentalist – Ikkat Designer

Name of Sector	Garment
Name of Module	Ornamentalist – Ikkat Designer
MES Code	GAR 508
Competency as per NCO Code	After training the candidate shall have knowledge and practice of different types of tie and dye methods for yarn to get the required effect after weaving. The candidate can be an independent entrepreneur.
Duration of Course	520 Hrs
Entry Qualification of Trainee	5th
Unit Size	20
Power Norms	3 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Understanding the art of tying yarns and dyeing • Tying and dyeing of yarns • Feeding dyed yarns for looms and weaving. • Selecting the colours to get the required special effects. 	<ul style="list-style-type: none"> • Knowledge of different methods of tying yarns and dyeing them. • Understanding of different traditional motifs, fabrics and threads. • Precautions to be taken while tying. • Different methods of ornamentation. • Identification and traceability of the materials received used and maintaining records of the dates of

	<p>receipt and issue and also cash transactions.</p> <ul style="list-style-type: none"> • Basic disciplines in the industry • Communication and data presentation • First aid and fire fighting
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TOOLS AND EQUIPMENT FOR A BATCH OF 20 TRAINEES

SI NO.	Description	Quantity
1.	Dyeing vats	5 Numbers
2.	Reeling machines	5 Numbers
3.	Dyeing Twines	5 bundles
4.	Production Register	20

General Information for Traditional Embroidery

Name of Sector	Garment
Name of Module	Traditional Embroidery
MES Code	GAR 509
Competency as per NCO Code	After the training the candidate shall have knowledge and practice of different types of Traditional embroidery & be able to transfer skills on different articles to get the required effect. The candidate can be an independent entrepreneur
Duration of Course	1040 Hrs
Entry Qualification of Trainee	Minimum 8th Standard and 14 years of age
Unit Size	20
Power Norms	3 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject having Embroidery & traditional craftsmanship as a subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector (Embroidery)

<ul style="list-style-type: none"> • Practical Competencies 	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Practicing safety precaution of usage of tools and equipments. • Demonstration & Practicing of Basic embroidery stitches • Design Development and Design Transfer • Fabric selection and preparation • Selecting the correct design to get the required special effects. • Fixing the panels, garments and fabric in the frames of required size. • Techniques of transferring the design on the fabric and Transferring the designs on the fabric • Marking the points as per the design given. • Sewing/embroidering with required thread as per the design. • Identifying the Defects and taking Remedies. • Removal of different types of stains. 	<ul style="list-style-type: none"> • Study of Regional Embroidery • Study of different types of fabrics. • Study of different types of basic embroidery stitches • Knowledge of Colors • Knowledge of different varieties of Traditional embroidery for various purposes. • Understanding of different traditional motifs, fabrics and threads. • Knowledge about importance of traditional embroidery work and ornamentation depending on the occasion of use. • Different methods of ornamentation. • Identification and traceability of the materials received used and maintaining records of the dates of receipt and issue and also cash transactions. • Basic disciplines in the industry • Communication and data presentation • First aid and fire fighting

Tools & Equipment for a batch of 20 trainees

Sl. No	Description	Quantity
1.	Frames (Assorted Size)	20

2.	Hand Needles	As required
3.	Threads	As required
4	Thread Trimmer	20
5	Seam ripper	20
6	Measuring Tape	20
7	Steam iron	01
8	Iron Stand	01
9	Tracing Table	01
10	Scissors	05

General Information for Zardosi Work

Name of Sector	Garment
Name of Module	Zardosi Work
MES Code	GAR 510
Competency as per NCO Code	After the training the candidate shall have knowledge and practice of different types Zardosi works and Zari designs to get the required effect
Duration of Course	680 Hrs
Entry Qualification of Trainee	Minimum 5th Standard and 14 years of age
Unit Size	20
Power Norms	3 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject having Embroidery & traditional craftsmanship as a subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector (Embroidery)

• Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Practicing safety precautions of usage of tools and equipments. • Practical analysis of different types of Zardosi and there usage • Understanding the Zardosi Design Zari requirement of the garments • Fabric analysis for their components • Practical analysis of different types of sequence, glass beads, Mirror and their 	<ul style="list-style-type: none"> • Knowledge of different varieties of Zardosi Designs, and other ornamental material • Knowledge about importance of Zardosi work and ornamentation for different occasions. • Different methods of ornamentation i.e. Understanding of different traditional motifs, fabrics and threads. • Concept of Designing. • Study of different types of stitches.

usage	<ul style="list-style-type: none"> • Study of Regional Embroidery.
<ul style="list-style-type: none"> • Market Survey for new arrivals, customer's opinion, and requirement. 	<ul style="list-style-type: none"> • Study of different types of fabrics.
<ul style="list-style-type: none"> • Demonstration and experiment on Design requirement, analysis, development and transfer methods. 	<ul style="list-style-type: none"> • Basic disciplines in the industry
<ul style="list-style-type: none"> • Practical on simple motifs and compound motifs. 	<ul style="list-style-type: none"> • Communication and data presentation
<ul style="list-style-type: none"> • R&D and placement of designs depending on various aspects. 	<ul style="list-style-type: none"> • First aid and fire fighting
<ul style="list-style-type: none"> • Identifying Defects and taking remedial actions, removing stains of different nature.. 	

TOOLS AND EQUIPMENTS FOR A BATCH OF 20 TRAINEES

Sl. No	Description	Quantity
1	Frames (Assorted Size)	20
2	Accessories	As required
3	Needles	As required
4	Threads	As required
5	Thread Trimmer	20
6	Seam ripper	20
7	Measuring Tape	20
8	Steam iron	01
9	Iron Stand	01
10	Tracing Table	01
11	Scissors	05

General Information for Ornamentalist – Hand work specialist Appliqué

Name of Sector	Garment
Name of Module	Ornamentalist – Hand work specialist Appliqué
MES Code	GAR 511
Competency as per NCO Code	After the training the candidate shall have knowledge and practice of different types hand work - Appliqué designs to get the required effect. The candidate can be an independent entrepreneur.
Duration of Course	520 Hrs
Entry Qualification of Trainee	5th
Unit Size	20
Power Norms	3 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<p>Understanding the Appliqué hand work Design requirement of the garments.</p> <p>Practicing safety precautions of usage of tools and equipments.</p> <p>Practical analysis of different types of fabrics and there usage.</p> <p>Market Survey for new arrivals, customer's opinion, and requirement.</p> <p>Demonstration and experiment on Design requirement, analysis, development and transfer methods.</p> <p>Practice of simple and compound motifs.</p> <p>R&D and placement of designs depending on various aspects.</p> <p>Identifying Defects and taking remedial actions, removing stains of different nature.</p> <p>Data presentation</p>	<p>Knowledge of different varieties of Hand work Designs, and other ornamental materials used in garments and Sarees.</p> <p>Knowledge about importance of Appliqué work and ornamentation for different occasions.</p> <p>Different methods of ornamentation i.e. Understanding of different traditional motifs, fabrics and threads.</p> <p>Identification and traceability of the materials received used and maintaining records of the dates of receipt and issue and also cash transactions.</p> <p>Concept of Designing.</p> <p>Study of different types of stitches.</p> <p>Study of Regional Embroidery</p> <p>Study of different types of fabrics.</p> <p>Basic disciplines in the industry</p> <p>Communication</p> <p>First aid and fire fighting</p>

TOOLS AND EQUIPMENT FOR A BATCH OF 20 TRAINEES

SI NO.	Description	Quantity
1	Beads, Contrast colour fabrics with different weaves..	As Required
2	Adhesives, sewing threads, Frames,Mock-up, heat sealers, Different varities of embroidery threads.	As Required
3	Production Register	1
4	Thimble, Needle threader, trimmer	20 sets

General Information for Ornamentalist – Hand work specialist Patch Work

Name of Sector	Garment
Name of Module	Ornamentalist – Hand work specialist Patch Work
MES Code	GAR 512
Competency as per NCO Code	After the training the candidate shall have knowledge and practice of different types of Hand work designs with patch works to get the required effect. The candidate can be an independent entrepreneur.
Duration of Course	520 Hrs
Entry Qualification of Trainee	5th
Unit Size	20
Power Norms	3 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> Understanding the Patch work requirement of the garments. Practicing safety precautions of usage of tools and equipments. Analysis of different types of fabrics and there usage. Market Survey for new arrivals, customer's opinion, and requirement. Demonstration and experiment on Design requirement, analysis, development Practice of simple and compound motifs. R&D and placement of designs depending on various aspects. Defects and Remedies, Stain removal. 	<ul style="list-style-type: none"> Knowledge of different varieties of Hand work Designs, and other ornamental materials used in garments and Sarees and their importance. Understanding of different traditional motifs, fabrics and threads. Identification and traceability of the materials received used and maintaining records of the dates of receipt and issue and also cash transactions. Concept of Designing. Study of different types of stitches. Study of Regional Embroidery. Study of different types of fabrics. Basic disciplines in the industry Communication and data presentation First aid and fire fighting

TOOLS AND EQUIPMENT FOR A BATCH OF 20 TRAINEES

SI NO.	Description	Quantity
1	Beads, Contrast colour fabrics with different weaves..	As Required
2	Adhesives, sewing threads, Frames,Mock-up, heat sealers, Different varities of embroidery threads.	As Required

3	Production Register	1
4	Thimble, Needle threader, trimmer	20 sets

General Information for Ornamentalist – Hand work specialist Combination of different Skills

Name of Sector	Garment
Name of Module	Ornamentalist – Hand work specialist Combination of different skills.
MES Code	GAR513
Competency as per NCO Code	After the training the candidate shall have knowledge and practice of different types of Hand works to get the required effect. The candidate can be an independent entrepreneur
Duration of Course	520 Hrs
Entry Qualification of Trainee	5th
Unit Size	20
Power Norms	3 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Understanding the hand work • design requirement of the garments. • Practicing safety precautions of usage of tools and equipments. • Practical analysis of different types of fabrics and there usage. • Market Survey for new arrivals, customer's opinion, and requirement. • Demonstration and experiment on • Design requirement, analysis, development and transfer methods. • Practice of simple and compound motifs using different combination of art works. • R&D and placement of designs depending on various aspects. • Defects and Remedies, Stain removal. • Data presentation 	<ul style="list-style-type: none"> • Knowledge of different varieties of • hand works and other ornamental materials used in garments and Sarees. • Knowledge about importance of hand work and ornamentation for different occasions • . • Understanding of different traditional motifs, fabrics and threads. • Identification and traceability of the materials received used and maintaining records of the dates of receipt and issue and also cash transactions. • Concept of Designing. • Study of different types of stitches. • Study of Regional Embroidery. • Study of different types of fabrics. • Basic disciplines in the industry • Communication • First aid and fire fighting

TOOLS AND EQUIPMENT FOR A BATCH OF 20 TRAINEES

SI NO.	Description	Quantity
1	Beads, Contrast colour fabrics with different weaves..	As Required
2	Adhesives, sewing threads, Frames,Mock-up, heat sealers, Different varieties of embroidery threads.	As Required
3	Production Register	1
4	Thimble, Needle threader, trimmer	20 sets

General Information for Apparel Manufacturing

Name of Sector	garment
Name of Module	Advance Apparel Manufacturing
MES Code	GAR 901
Competency as per NCO Code	After completion of the course the trained person would be able to work in garment production department as Line Quality Controllers, I.E. Executives, Production Coordinators or Merchandisers
Duration of Course	1040 Hrs
Entry Qualification of Trainee	12th
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

<ul style="list-style-type: none"> Practical Competencies 	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> Practice discipline, hygiene, safety and effective communication Visit to a garment manufacturing unit Practice of seams, samples and garment components Practice of various exercises on Industrial sewing machine using different work aids and machine attachments Construction of complete garment: men's 	<ul style="list-style-type: none"> Importance of work aids and machine attachments Textile manufacturing process, Fabric appreciation and sourcing Importance of quality and quality control Measurement and quality principles Fabric quality requirement and inspection

<ul style="list-style-type: none"> • shirt, dress, trouser and T-shirt • Handling different types of fabrics • Identification of common fabrics and flagging • Sample preparation of dyeing and printing methods • Visit to textile/fabric sourcing hub • Identification of defects in fabrics & accessories • Identification of sewing and pattern defects, finishing and packing defects etc. • Measurement checking as per spec sheets • Mock garment sampling, production and inspection • Familiarization with various quality documents and reports • Testing of fabric for colour fastness, light fastness, dimensional changes etc. • Pattern and drafting of basic blocks and development of different styles of sleeves, cuffs, shirts etc. • Development of commercial patterns from spec sheets/ tech 	<ul style="list-style-type: none"> • Concept of AQL and other garment inspection systems • Knowledge about infusing quality at all levels • Role and responsibilities of merchandiser • Introduction to garment costing • Export documentation- Inco and payment terms • Profile and organizational set up of a garment industry • Introduction to garment styles and identification of components and parts • Pre-production planning • Knowledge about spreading techniques and equipment • Cutting equipment and cut-order planning • Marker modes and marker efficiency • Knowledge about spreading and material handling • Production systems and planning in the sewing room • Understanding of work study and production aspects of sewing
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packs <ul style="list-style-type: none"> • Preparation of time and action plan • Merchandising calendar • Preparation of cost sheet • Detailed garment analysis • Familiarization with day to day production activities 	<ul style="list-style-type: none"> • Fundamentals of computer, documentation using MS Word, MS Excel • Use of e-mail and internet • Understanding of pattern making, grading and marker making tools using CAD software • Concepts of Entrepreneurship • Opportunity scouting and idea generation
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TOOLS AND EQUIPMENT FOR A BATCH OF 25 TRAINEES

S No.	Description	Quantity
1.	Digital contents for Communication Skills & Personality Development	
2.	Digital contents for Health & Hygiene	
3.	Single Needle Lock Stitch Machine	20
4.	UBT Lock Stitch Machine	5
5.	Over Lock Machine	1
6.	Button Sewing / Button Hole Machine	1 each
7.	Feed of the arm machine	1
8.	Bobbin & Bobbin Case	20
9.	Scissor 10"	20
10.	Cutting Table	5
11.	Machine Attachments- Binder, Zipper Foot, Bottom Fold	
12.	Pressing Table	2
13.	Steam Press	2
14.	Pick Glass	20
15.	Material for Fabric Dyeing & Printing	
16.	Table Loom	1

17.	Swatch Library	
18.	Textile testing Equipments	5
19.	Fabric Roll	2
20.	Set of Accessories & packing material	
21.	Production lot	30 Garments
22.	Sample garments	15
23.	Pattern Tables	4
24.	Dummy	10
25.	24" Scale	20

26.	French Curve	20
27.	L-Square Scale	20
28.	Hip Curve	20
29.	Measuring Tape	20
30.	Notcher	5
31.	Tracing Wheel	5
32.	Scissors (paper Cutting)	5
33.	Stop watch	20
34.	Fabric	30 m each
35.	Interlining	2 m each
36.	Clip Board	20
37.	Computer	10
38.	Digitizer	1
39.	Plotter	1
40.	CAD Pattern Making Software	5 keys

General Information for Apparel Manufacturing Technology – Woven

Name of Sector	Garment
Name of Module	Apparel Manufacturing Technology – Woven
MES Code	GAR 804
Competency as per NCO Code	To create professionals with technical skill and knowledge to work in garment industry as Production Executives, Quality Controllers, I.E. Coordinators or Assistant Merchandisers
Duration of Course	1040 Hrs
Entry Qualification of Trainee	12 th Pass
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1.Craft Instructor Certificate in any trade of garment Sector

• Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Practice discipline, hygiene, safety and effective communication • Visit to a garment manufacturing unit • Detailed garment analysis • Familiarization with day to day production activities • Mock production by assembly line system 	<ul style="list-style-type: none"> • Basic communication skills and building • industrial vocabulary • Understanding of work ethics, importance of discipline, health and hygiene • Safety precautions in garment industry • Profile and organizational set up of a garment industry

<ul style="list-style-type: none"> • Line balancing activities and measure of productivity • Developing standard operating procedures • Calculation of standard allowed minutes • Practice of seams, samples and garment components • Practice of various exercises on Industrial sewing machine using different work aids and machine attachments • Construction of complete garment: men's shirt, dress, trouser and T-shirt • Handling different types of fabrics • Identification of common fabrics and flagging • Sample preparation of dyeing and printing methods • Visit to textile/fabric sourcing hub • Identification of defects in fabrics & accessories 	<ul style="list-style-type: none"> • Introduction to garment styles and identification of components and parts • Pre-production planning • Knowledge about spreading techniques and equipment • Cutting equipment and cut-order planning • Marker modes and marker efficiency • Knowledge about spreading and material handling • Production systems and planning in the sewing room • Understanding of work study and production aspects of sewing • Introduction to seams and stitches • Introduction to industrial sewing machines • Importance of work aids and machine attachments • Textile manufacturing process,
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<ul style="list-style-type: none"> • Identification of sewing and pattern defects, finishing and packing defects . • Measurement checking as per spec sheets • Mock garment sampling, production and inspection • Familiarization with various quality documents and reports • Testing of fabric for colour fastness, light fastness, dimensional changes etc. • Pattern and drafting of basic blocks and development of different styles of sleeves, cuffs, shirts etc. • Development of commercial patterns from spec sheets/ tech packs • Preparation of time and action plan • Merchandising calendar • Preparation of cost sheet 	<p>Fabric appreciation and sourcing</p> <ul style="list-style-type: none"> • Importance of quality and quality control • Measurement and quality principles • Fabric quality requirement and inspection • Concept of AQL and other garment inspection systems • Knowledge about infusing quality at all levels • Introduction to pattern making tools and equipment • Knowledge of drafting of basic bodice block, sleeve, shirt and trouser block • Development of various styles of collar, sleeves, shirts, cuffs, pockets etc. • Understanding the concepts of merchandising • Role and responsibilities of merchandiser
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	<ul style="list-style-type: none"> • Introduction to garment costing • Export documentation- Inco and payment terms
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TOOLS AND TRAINING EQUIPMENT FOR A BATCH OF 25 TRAINEES

S. No	Description	Quantity
1.	Digital contents for Communication Skills & Personality Development	
2.	Digital contents for Health & Hygiene	
3.	Single Needle Lock Stitch Machine	20
4.	UBT Lock Stitch Machine	5
5.	Over Lock Machine	1
6.	Button Sewing / Button Hole Machine	1 each
7.	Feed of the arm machine	1
8.	Bobbin & Bobbin Case	20
9.	Scissor 10"	20
10.	Cutting Table	5
11.	Machine Attachments- Binder, Zipper Foot, Bottom Fold	
12.	Pressing Table	2
13.	Steam Press	2
14.	Pick Glass	20
15.	Material for Fabric Dyeing & Printing	
16.	Table Loom	1 no.
17.	Swatch Library	
18.	Fabric Roll	2
19.	Set of Accessories & packing material	
20.	Production lot	30 Garments
21.	Sample garments	15
22.	Pattern Tables	4
23.	Dummy	10

24.	24" Scale	20
25.	French Curve	20
26.	L-Square Scale	20
27.	Hip Curve	20
28.	Measuring Tape	20
29.	Notcher	5
30.	Tracing Wheel	5

General Information for Apparel CAD/ CAM

Name of Sector	Garment
Name of Module	Apparel CAD/ CAM
MES Code	GAR 801
Competency as per NCO Code	After completing the training the candidate would be able to Design & prepare the Pattern by using Computer aided Design Software so that can work as a CAD Operator.
Duration of Course	360 Hrs
Entry Qualification of Trainee	10 th Pass + GAR – 701 + GAR - 601
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

• Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Operating CAD software and feeding the data • Digitizing the patterns • Preparation of Mini Marker and Cutter • Master • Mock drills – firefighting and first 	<ul style="list-style-type: none"> • Basic knowledge about various aspects of CAD operations and construction of various garments • Knowledge about importance of pattern preparation, Mini Marker and Cutter Master • Basics of garment design and cutting, Marker efficiency

aid	<ul style="list-style-type: none"> • Basic disciplines in the industry • Communication and data presentation • Safety precautions in cutting operations and garment factory • First aid and fire fighting • Communication Skills & Soft Skills
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TOOLS AND EQUIPMENT FOR A BATCH OF 25 TRAINEES

S.NO.	DESCRIPTION	QUANTITY
1	Computer set with CAD software,	20 Nos.
2	Digitizing Board	1 Nos.
3	Printers/Plotters	1 set
4	Printer/Plotter Paper	As required

General Information for Apparel Product Specialty (Lounge wear, Trousers, Knits & Jackets)

Name of Sector	Garment
Name of Module	Apparel Product Specialty (Lounge wear, Trousers, Knits & Jackets)
MES Code	GAR 802
Competency as per NCO Code	After completing the training the candidate would be able to work as Product specialist for Loungewear/Trousers/Knits/Jackets in Export or Retail Market.
Duration of Course	360 Hrs
Entry Qualification of Trainee	8 th Pass + GAR – 502
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
Practicing Safety aspects; use of tools and Equipment's in safe manner.	Basic Knowledge of different fabrics Handling of different fabrics Learn Basic Operations of Industrial Sewing Machines
Familiarization with different types of sewing machines and stitching.	Elemental Operation Breakdown
Preparation of different varieties of garments.	General aspects of fabrics, cutting and tailoring, preparation of sample garments for approval
Knowledge about sewing defects and	

their remedies.	Knowledge of Tools & Equipment's.
Usage of tools and equipment's.	Communication Skills & Soft Skills

TOOLS AND EQUIPMENTS FOR A BATCH OF 20 TRAINEES

S.NO.	DESCRIPTION	QUANTITY
1	Note Book 100 pgs, Pen, Pencil, Eraser, Ruler, White A4 Sheets	20
2	SNLS Machines	20 sets
3	Required attachments/folders	All types 5 machines each
4	Raw Materials/ Fabric	As per Requirement
5	Scissors, Trimmer, Mask	20 sets
6	Marking Chalk	As per Requirements
7	Measuring Tape	20
8	Over lock for knits	5
9	Flat lock for knits	5

General Information for Apparel Quality Assurance & Compliance

Name of Sector	Garment
Name of Module	Apparel Quality Assurance & Compliance
MES Code	GAR 803
Competency as per NCO Code	To create professionals with supervisory and quality control skills to work as QA Auditor, Quality Controller, Technical Executive/Supervisor or Factory Evaluator in apparel industry.
Duration of Course	1040 Hrs
Entry Qualification of Trainee	12 th Pass
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Practice discipline, hygiene, safety and effective communication • Visit to a garment manufacturing unit • Identification of defects in fabrics & accessories • Identification of sewing and pattern defects, finishing and packing defects etc. • Measurement checking as per spec sheets • Mock garment sampling, production and inspection • Familiarization with various quality documents and reports • Quality Manual preparation for garment industry • Testing of fabric for colour fastness, light fastness, dimensional changes etc. • Preparation of project report • Practice of seams, samples and 	<ul style="list-style-type: none"> • Basic communication skills and building industrial vocabulary • Developing thinking ability & logical reasoning • Understanding of work ethics, importance of discipline, health and hygiene • Safety precautions in garment industry • Importance of quality and quality control • Measurement and quality principles • Fabric quality requirement and inspection • Concept of AQL and other garment inspection systems • Knowledge about infusing quality at all levels • Code of conduct • Factory Audits & Monitoring process • Ergonomic Hazards & Solutions for Apparel industry

<p>garment components</p> <ul style="list-style-type: none"> • Practice of various exercises on Industrial sewing machine using different work aids and machine attachments • Garment making & fit checking • Handling different types of fabrics • Identification of common fabrics and flagging • Sample preparation of dyeing and printing methods • Visit to textile/fabric sourcing hub • Preparing of pattern using spec sheet • Checking the garment balance, fit & measurement • Development of commercial patterns from spec sheets/ tech packs • Detailed garment analysis • Familiarization with day to day production activities • Mock production by assembly line system 	<ul style="list-style-type: none"> • Compliance codes in Global Apparel • Industry • Introduction to seams and stitches • Introduction to industrial sewing machines • Importance of work aids and machine attachments • Textile manufacturing process, Fabric appreciation and sourcing • Introduction to pattern making tools and equipment • Knowledge of drafting of basic bodice block, sleeve, shirt and trouser block • Profile and organizational set up of a garment industry • Global supply chain • Introduction to garment styles and identification of components and parts • Pre-production planning • Knowledge about spreading techniques and equipment
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TOOLS AND TRAINING EQUIPMENT FOR A BATCH OF 25 TRAINEES

S No.	Description	Quantity
1.	Digital contents for Communication Skills & Personality Development	
2.	Digital contents for Health & Hygiene	
3.	Single Needle Lock Stitch Machine	20
4.	UBT Lock Stitch Machine	5
5.	Over Lock Machine	1
6.	Button / Button Hole Machine	1
7.	Feed of the arm machine	1
8.	Bobbin & Bobbin Case	20
9.	Scissor 10"	20
10.	Cutting Table	5
11.	Machine Attachments- Binder, Zipper Foot, Bottom Fold	
12.	Pressing Table	2
13.	Steam Press	2
14.	Pick Glass	20
15.	Material for Fabric Dyeing & Printing	
16.	Table Loom	1
17.	Swatch Library	

18.	Textile testing Equipments	5
19.	Fabric Roll	2
20.	Set of Accessories & packing material	
21.	Production lot	30 Garments
22.	Sample garments	15
23.	Pattern Tables	4
24.	Dummy	10
25.	Pattern Making Tools	1 set each
26.	Stop watch	20
27.	Fabric	30 m each
28.	Interlining	2 m each
29.	Clip Board	20

General Information for Apparel Manufacturing Technology – Knits (Advance)

Name of Sector	Garment
Name of Module	Apparel Manufacturing Technology – Knits (Advance)
MES Code	GAR 902
Competency as per NCO Code	After completion of the course the trained person would be able to work as Production Executive or Quality Controllers in knitwear industry.
Duration of Course	520 Hrs
Entry Qualification of Trainee	10 th Pass + GAR - 702
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

• Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Practice discipline, hygiene, safety and • effective communication • Visit to a garment manufacturing unit • Identification of common fabrics and flagging 	<ul style="list-style-type: none"> • Basic communication skills and building • industrial vocabulary • Understanding of work ethics, importance of discipline, health and hygiene • Safety precautions in garment industry

<ul style="list-style-type: none"> • Sample preparation of dyeing and printing methods • Sample preparation of commonly used knitted fabrics through hand knitting • Visit to textile/fabric sourcing hub • Practice of seams, samples and garment components • Practice of various exercises on Industrial sewing machine using different work aids and machine attachments w.r.t. knitted fabrics • Construction of complete garment: men's • shirt, dress, trouser and T-shirt • Handling different types of fabrics • Identification of defects in fabrics & accessories • Identification of knitting, sewing and pattern defects, finishing and packing defects etc. • Measurement checking as per spec sheets • Mock garment sampling, production and inspection 	<ul style="list-style-type: none"> • Textile manufacturing process, Fabric appreciation and sourcing • Concept of Knitwear Production Technology • Knitwear-Classification & their application • Introduction to seams and stitches • Introduction to industrial sewing machines • Importance of work aids and machine attachments • Importance of quality and quality control • Measurement and quality principles • Fabric quality requirement and inspection • Concept of AQL and other garment inspection systems • Knowledge about infusing quality at all levels • Introduction to pattern making tools and equipment • Knowledge of drafting of basic
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<ul style="list-style-type: none"> • Familiarization with various quality documents and reports • Testing of fabric for colour fastness, light fastness, dimensional changes etc. • Pattern and drafting of basic blocks and development of different styles of sleeves, cuffs, shirts etc. • Development of commercial patterns from spec sheets/ tech packs • Preparation of time and action plan • Merchandising calendar • Preparation of cost sheet • Detailed garment analysis • Familiarization with day to day production activities • Mock production of knitted garments by assembly line system • Line balancing activities and measure of productivity • Developing standard operating 	<p>bodice block, sleeve, shirt and trouser block</p> <ul style="list-style-type: none"> • Development of various styles of collar, sleeves, shirts, cuffs, pockets etc. • Understanding the concepts of merchandising • Role and responsibilities of merchandiser • Introduction to garment costing • Important features and co-ordinations w.r.t. knitted fabrics • Export documentation- Inco and payment terms • Profile and organizational set up of a garment industry • Introduction to garment styles and identification of components and parts • Pre-production planning • Knowledge about spreading techniques and equipment • Cutting equipment and cut-order planning for knits • Marker modes and marker efficiency
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<p>procedures</p> <ul style="list-style-type: none"> • Calculation of standard allowed minutes 	<ul style="list-style-type: none"> • Knowledge about spreading and material handling • Production systems and planning in the sewing room • Understanding of work study and production aspects of sewing
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TOOLS AND TRAINING EQUIPMENT FOR A BATCH OF 25 TRAINEES

S No.	Description	Quantity
1.	Digital contents for Communication Skills & Personality Development	
2.	Digital contents for Health & Hygiene	
3.	Single Needle Lock Stitch Machine	20
4.	UBT Lock Stitch Machine	5
5.	Over Lock Machine	1
6.	Button Sewing / Button Hole Machine	1
7.	Feed of the arm machine	1
8.	Flat Lock Machine	1
9.	Bobbin & Bobbin Case	20
10.	Scissor 10"	20
11.	Cutting Table	5
12.	Machine Attachments- Binder, Zipper Foot, Bottom Fold, Polo Placket maker	
13.	Pressing Table	2
14.	Steam Press	2
15.	Pick Glass	20
16.	Material for Fabric Dyeing & Printing	

17.	Table Loom	1
18.	Knitting needles	50
19.	Knitting yarn (Assorted colours)	30
20.	Swatch Library	
21.	Textile testing Equipments	5
22.	Fabric Roll	2
23.	Set of Accessories & packing material	
24.	Production lot	30 Garments
25.	Sample garments	15
26.	Pattern Tables	4
27.	Dummy	10
28.	24" Scale	20
29.	French Curve	20
30.	L-Square Scale	20
31.	Hip Curve	20
32.	Measuring Tape	20
33.	Notcher	5
34.	Tracing Wheel	5
35.	Scissors (paper Cutting)	5
36.	Stop watch	20
37.	Fabric	15 m each
38.	Interlining	2 m each
39.	Clip Board	20

General Information for Apparel Pattern Making & CAD

Name of Sector	Garment
Name of Module	Apparel Pattern Making & CAD
MES Code	GAR 805
Competency as per NCO Code	After completion of the course the candidate would have the technical skills in Pattern Making and can work as a Assistant Pattern Master, CAD Operator or Sampling Coordinator.
Duration of Course	1040 Hrs
Entry Qualification of Trainee	12 th Pass
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

• Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Practice Health & Safety – select, use, maintain & store – tools, equipments • & clothing safely • Practice of seams, samples and garment components • Practice of various exercises 	<ul style="list-style-type: none"> • Basic communication skills and building industrial vocabulary • Understanding of work ethics, importance of discipline, health and hygiene • Safety precautions in garment industry

<p>on Industrial sewing machine using different work aids and machine attachments</p> <ul style="list-style-type: none"> • Practice of making various basic pattern of Upper & lower manually like body block, skirt block etc. • Practice of making patterns as per • Specification Sheet • Practice of manipulate the pattern • Practice of To making various pattern through CAD • Handling different types of fabrics • Identification of common fabrics and flagging • Sample preparation of dyeing and printing methods • Visit to textile/fabric sourcing hub • Practice of different types of seam, plackets, packets, cuffs, collars & neck lines • Operating various specialized industrial machines • Practice of cutting various upper 	<ul style="list-style-type: none"> • Introduction to seams and stitches • Introduction to industrial sewing machines • Importance of work aids and machine attachments • Knowledge of drafting of basic bodice block, sleeve, shirt and trouser block • Development of various styles of collar, sleeves, shirts, cuffs, pockets etc • Knowledge about Textile Manufacturing process, fabric appreciation & Sourcing • Profile and organizational set up of a garment industry • Introduction to garment styles and identification of components and parts • Pre-production planning • Knowledge about spreading techniques and equipment • Cutting equipment and cut-order planning • Marker modes and marker efficiency
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& Lower garments, cutting techniques <ul style="list-style-type: none"> • Construction of complete garments: • top, skirt, shirt, trouser etc. • Practice of pattern making, grading and marker making tools using CAD software • Preparation of mini-marker and development of commercial patterns using digitizer and plotter • Visit to a garment manufacturing unit 	<ul style="list-style-type: none"> • Knowledge about spreading and material handling • Production systems and planning in the sewing room • Fabric consumption & marker making • Understanding of pattern making, grading and marker making tools using CAD software
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TOOLS AND EQUIPMENT FOR A BATCH OF 25 TRAINEES

S No.	Descripti	Quantity
1.	Digital contents for Communication Skills & Personality Development	
2.	Digital contents for health & Hygiene	
3.	Single Needle Lock Stitch Machine	20
4.	Double Needle Lock Stitch Machine	5
5.	Over Lock Machine	2
6.	Button Sewing / Button Hole Machine	2 each
7.	Bobbin & Bobbin Case	20
8.	Seam ripper	20
9.	Scissor 10"	20
10.	Cutting Table	5

11.	Machine Attachments- Binder, Zipper Foot, Bottom Fold	
12.	Pressing Table	5
13.	Steam Press	5
14.	Pick Glass	20
15.	Material for Fabric Dyeing & Printing	
16.	Table Loom	5
17.	Swatch Library	1
18.	Pattern Tables	4
19.	Dummy	5
20.	24" Scale	20
21.	French Curve	20
22.	L-Square Scale	20
23.	Hip Curve	20
24.	Measuring Tape	20
25.	Notcher	5
26.	Tracing Wheel	5
27.	Scissors (paper Cutting)	5
28.	Computer	10
29.	Fabric	30 m each
30.	Interlining	2 m each
31.	Digitizer	1
32.	Plotter	1
33.	CAD Pattern Making Software	5 keys

General Information for Textile Design Technology

Name of Sector	Garment
Name of Module	Textile Design Technology
MES Code	GAR 806
Competency as per NCO Code	To create professionals with technical skill and knowledge to work in garment industry as Textile Designer, Production Executives, Quality Controllers or Assistant Merchandisers
Duration of Course	1040 Hrs
Entry Qualification of Trainee	12 th Pass
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> Practice discipline, hygiene, safety and effective communication Visit to a textile mill and a garment manufacturing unit Detailed fabric analysis Working on a table loom Concept of Knitting Handling different types of fabrics Identification of common fabrics and flagging Sample preparation of dyeing and printing methods Visit to textile/fabric sourcing hub Understanding elements and principles of design Introduction to pencil shading and flat sketching Nature drawing Using different colouring media 	<ul style="list-style-type: none"> Basic communication skills and building industrial vocabulary Understanding of work ethics, importance of discipline, health and hygiene Safety precautions in Textile industry Sequence of Textile Manufacture Major Production Segments of Textile Supply Chain Classification of Fabric Manufacture Techniques Textile manufacturing process, Fabric appreciation and sourcing Basic techniques, treatments and processes of textile finishing Classification of dyes & their application Methods and styles of printing Concept of 2D & 3D forms

<ul style="list-style-type: none"> • Working on different colour schemes • Developing a fashion figure • Working on a theme and development of mood boards, colour story and swatch boards • Theme based illustration • Visit to museums/ fashion shows & apparel fair • Design Studio • Motif development and preparation of samples of Traditional Indian embroidery • Visit to various traditional centers for art • Portfolio presentation • Designing & illustrating lines for a fashion show • Identification of defects in fabrics & accessories • Identification of sewing and pattern defects, finishing and packing defects etc. 	<ul style="list-style-type: none"> • Concept of design conceptualization & Development • Concept of colour theory & colour dimensions • Introduction to traditional Indian textiles & embroideries • Importance of flat sketch and fashion illustration • History of fashion • Costumes in ancient civilization • C ostumes of the bygone era- Indian & European • Profile and organizational set up of a Textile industry • Introduction to garment styles and identification of components and parts • Pre-production planning • Production systems and planning in the sewing room • Importance of quality and quality control
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<ul style="list-style-type: none"> • Measurement checking as per spec sheets • Mock garment sampling, production and inspection • Familiarization with various quality documents and reports • Testing of fabric for colour fastness, light fastness, dimensional changes etc • Preparation of time and action plan • Merchandising calendar • Preparation of cost sheet 	<ul style="list-style-type: none"> • Measurement and quality principles • Fabric quality requirement and inspection • Concept of AQL and other garment inspection systems • Knowledge about infusing quality at all levels • Understanding the concepts of merchandising • Role and responsibilities of merchandiser • Introduction to fabric costing • Export documentation- Inco and payment terms
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TOOLS AND TRAINING EQUIPMENT FOR A BATCH OF 25 TRAINEES

S No.	Descripti	Quantity
1.	Digital contents for Communication Skills & Personality	
2.	Digital contents for Health & Hygiene	
3.	Scissor 10"	20
4.	Pressing Table	2
5.	Steam Press	2
6.	Pick Glass	20
7.	Material for Fabric Dyeing & Printing	
8.	Table Loom	5
9.	Swatch Library	
10.	Mannequins (Male & Female)	1 each
11.	Pattern Tables	4
12.	Dummy	10
13.	24" Scale	20
14.	Scissors (paper Cutting)	5
15.	Fabric	30 m each
16.	Cartridge sheets	200
17.	Steadlers (36 colour pencils)	1 each
18.	Poster colours (12 colours)	1 each
19.	Paint Brushes (assorted pack)	1 each
20.	Colour palette	1 each
21.	Dry Pastels	1 pack each
22.	Gateway sheets	40 sheets each
23.	Coal pencil	1 each
24.	Portfolio file	250
25.	Embroidery Threads (Assorted colours)	30
26.	Embroidery Frame	25
27.	Mirrors (for embroidery)	50
28.	Textile Testing Equipment	01each

General Information for Apparel Production Supervision

Name of Sector	Garment
Name of Module	Apparel Production Supervision
MES Code	GAR 807
Competency as per NCO Code	After completing the training candidate would able to coordinate between production and the marketing departments by providing the information and instructions.
Duration of Course	520 Hrs
Entry Qualification of Trainee	10 th + one year experience in an garment Industry
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Collecting data from dispatch on the • styles and Purchase Orders in operation and the production completed. • Providing the data of packing to marketing and PPC in-charge • Understanding the changes needed in production and informing the concerned production people & the activities of different departments and their link to the activities being monitored. • Analyzing and rectifying the mistakes, and monitoring the stocks. • Understanding the production bottlenecks and informing the marketing and PPC in-charge • Mock drills – firefighting and first aid 	<ul style="list-style-type: none"> • Introduction to Manufacturing Technology • Knowledge of Textiles, Quality & Compliance • Activities of different sections, the organization structure and the people at different levels, coordinating with different sections and with the people with in the section. • The fine aspects of production bottlenecks, dispatch priorities and production balancing. • Knowledge of styles and purchase order requirements. • General operations of data feeding and taking out Reports Line balancing in Assembly Line. • Safety guidelines. • Knowledge of Inspection. • Analytical ability & Industrial best Practices to enhance productivity and

<ul style="list-style-type: none"> • Safety precautions and familiarization with tools and equipment's. • Reporting the activities in time and maintaining the records. 	<p>reduce time losses.</p> <ul style="list-style-type: none"> • Ergonomics • Communication Skills & Soft Skill • Knowledge of all departments. • Value addition in work.
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General Information for Apparel Export Merchandising

Name of Sector	Garment
Name of Module	Apparel Export Merchandising
MES Code	GAR 808
Competency as per NCO Code	The program will equip students to enter the industry as knowledgeable and competent professionals who are able to work as Assistant Merchandisers, Fashion Merchandisers, Assistant Buyers or Apparel Product Developers.
Duration of Course	520 Hrs
Entry Qualification of Trainee	12 th Pass +GAR – 804 + GAR - 801
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Familiarization with tools and equipment viz standard pattern, measuring tape, yard stick • Understanding the cutting tolerances of panels. • Familiarization of check points. • Deciding on the sample size and the rolls to be inspected as per sample plan. • Deciding on the parameters to be verified in details depending on the specific requirement of the customer. • Checking the roll weight, roll length, GSM, width and shade difference. • Checking the construction and shrinkage and comparing with the norms. • Checking the fabrics for defects and grading them, accepting them or rejecting as per the norms and informing the concerned. • Defects identification and flagging. 	<ul style="list-style-type: none"> • Profile and organizational set up of a garment industry • Basic industrial terminology • Introduction to garment styles and identification of components and parts • Pre-production planning • Understanding the concepts of merchandising • Role and responsibilities of merchandiser • Merchandising Planning Tools/Techniques • International Marketing • Marketing environment • Introduction to garment costing • Determining pricing of apparel products • Calculations of margins, freight & overheads

<ul style="list-style-type: none"> • Reporting the defects and rejections • Mock drills – firefighting and first aid • Safety precautions and familiarization with tools and equipments. 	<ul style="list-style-type: none"> • Export documentation- Inco and payment terms • Export import policies and procedures • Export incentives & credit w.r.t. readymade garment exports • Textile manufacturing process, Fabric appreciation and sourcing • Concepts of sourcing & procurement • Fabric & accessory sourcing • Supply chain management • Manufacturing resource planning • Inventory Management • Introduction to seams and stitches • Introduction to industrial sewing machines • Importance of work aids and machine attachments • Basic knowledge of computers • Introduction to CAD Merchandising
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TOOLS AND TRAINING EQUIPMENT FOR A BATCH OF 25 TRAINEES

S No.	Descriptio	Quantity
1.	Single Needle Lock Stitch Machine	20
2.	UBT Lock Stitch Machine	5
3.	Over Lock Machine	1
4.	Button Sewing / Button Hole Machine	1
5.	Bobbin & Bobbin Case	20
6.	Scissor 10"	20
7.	Cutting Table	5
8.	Machine Attachments- Binder, Zipper Foot, Bottom Fold	
9.	Pressing Table	2
10.	Steam Press	2
11.	Pick Glass	25
12.	Table Loom	1
13.	Swatch Library	
14.	Fabric Roll	2
15.	Set of Accessories & packing material	
16.	Production lot	30 Garments
17.	Sample garments	15
18.	Mannequins (Male & Female)	1 each
19.	Fabric	5 m each
20.	Interlining	2 m each

21.	Computer	11
22.	Printer	1
23.	CAD Merchandising Software	5 keys

General Information for Basic Apparel Pattern Making

Name of Sector	Garment
Name of Module	Basic Apparel Pattern Making
MES Code	GAR 701
Competency as per NCO Code	After completion of the course the candidate would be a professional with technical skills about Pattern Making and can work as Assistant Pattern Master or Quality Controller in cutting department.
Duration of Course	520 Hrs
Entry Qualification of Trainee	10 th Pass
Unit Size	20
Power Norms	3 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Practice Health & Safety – select, use, • maintain & store – tools, equipments & clothing safely • Practice of seams, samples and garment components • Practice of various exercises on Industrial sewing machine using different work aids and machine attachments • Practice on made to measure garment construction method • Construction of complete garment: men's shirt, dress, trouser and T-shirt • Handling different types of fabrics • Development of commercial patterns from spec sheets/ tech pack • Handling different types of fabrics • Practice of cutting various upper & Lower garments, cutting techniques • Construction of complete garments: top, skirt, shirt, 	<ul style="list-style-type: none"> • Basic communication skills and building • industrial vocabulary • Developing thinking ability & logical reasoning • Understanding of work ethics, importance of discipline, health and hygiene • Safety precautions in garment industry • Introduction to seams and stitches • Introduction to industrial sewing machines • Importance of work aids and machine attachments • Introduction to pattern making tools and equipment • Knowledge of drafting of basic bodice block, sleeve, shirt and trouser block • Development of various styles of collar, sleeves, shirts, cuffs,

trouser etc.	pockets etc.
<ul style="list-style-type: none"> Detailed garment analysis Familiarization with day to day production activities Mock production by assembly line system Visit to a garment manufacturing unit 	<ul style="list-style-type: none"> Profile and organizational set up of a garment industry Introduction to garment styles and identification of components and parts Pre-production planning

TOOLS AND EQUIPMENT FOR A BATCH OF 20 TRAINEES

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S No.	Description	Quantity
1.	Digital contents for Communication Skills & Personality Development	
2.	Digital contents for health & Hygiene	
3.	Single Needle Lock Stitch Machine	20.
4.	Double Needle Lock Stitch Machine	5
5.	Over Lock Machine	5
6.	Bobbin & Bobbin Case	20
7.	Seam ripper	20
8.	Scissor 10"	20
9.	Cutting Table	5
10.	Machine Attachments- Binder, Zipper Foot, Bottom Fold	
11.	Pressing Table	5
12.	Steam Press	5
13.	Pattern Tables	4
14.	Dummy	5
15.	24" Scale	25
16.	French Curve	25
17.	L-Square Scale	25
18.	Hip Curve	25
19.	Measuring Tape	25
20.	Notcher	5
21.	Tracing Wheel	5
22.	Scissors (paper Cutting)	5 n
23.	Fabric	20 m each
24.	Interlining	2 m each

General Information for Apparel Manufacturing Technology – Knits (Foundation)

Name of Sector	Garment
Name of Module	Apparel Manufacturing Technology – Knits (Foundation)
MES Code	GAR 702
Competency as per NCO Code	After completion of the course the trained person would be acquainted with technical skills & knowledge about knitted/ hosiery manufacturing and would be able to work as Assistant Production Controller or Line Supervisor.
Duration of Course	520 Hrs
Entry Qualification of Trainee	10 th Pass
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

<ul style="list-style-type: none"> • Practical Competencies 	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Practice discipline, hygiene, safety and • effective communication • Visit to a garment manufacturing unit • Identification of common fabrics and flagging • Sample preparation of dyeing and printing methods • Sample preparation of commonly used knitted fabrics through hand knitting • Visit to textile/fabric sourcing hub • Practice of seams, samples and garment components • Practice of various exercises on Industrial sewing machine using different work aids and machine attachments w.r.t. knitted fabrics • Construction of complete garment: men's • shirt, dress, trouser and T-shirt 	<ul style="list-style-type: none"> • Basic communication skills and building • industrial vocabulary • Developing vocabulary, thinking ability & • logical reasoning • Understanding of work ethics, importance of discipline, health and hygiene • Safety precautions in garment industry • Textile manufacturing process, Fabric appreciation and sourcing • Concept of Knitwear Production • Technology • Knitwear-Classification & their application • Introduction to seams and stitches • Introduction to industrial sewing machines • Importance of work aids and

<ul style="list-style-type: none"> • Handling different types of fabrics • Identification of defects in fabrics & • accessories • Identification of knitting, sewing and pattern defects, finishing and packing defects etc. • Measurement checking as per spec sheets • Mock garment sampling, production and inspection • Familiarization with various quality documents and reports • Testing of fabric for colour fastness, light fastness, dimensional changes etc. • Pattern and drafting of basic blocks and development of different styles of sleeves, cuffs, shirts etc. • Detailed garment analysis • Familiarization with day to day production activities 	<p>machine attachments</p> <ul style="list-style-type: none"> • Introduction to pattern making tools and equipment • Pattern making terminology & • measurement systems • Knowledge of drafting of basic bodice block, sleeve, shirt and trouser block • Development of various styles of necklines collar, sleeves, shirts, cuffs, pockets etc. • Important features and co-ordinations w.r.t. knitted fabrics • Profile and organizational set up of a garment industry • Introduction to garment styles and identification of components and parts • Pre-production planning • Knowledge about spreading techniques and equipment • Cutting equipment and cut-order
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	<p>planning for knits</p> <ul style="list-style-type: none">• Marker modes and marker efficiency• Knowledge about spreading and material handling• Production systems and planning in the sewing room
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General Information for Apparel Production Supervision & Quality Control

Name of Sector	Garment
Name of Module	Apparel Production Supervision & Quality Control
MES Code	GAR 703
Competency as per NCO Code	The candidate would become a professional with supervisory skills to monitor production activities and would be a Production Supervisor, Assistant Production Controller or Quality Controller.
Duration of Course	520 Hrs
Entry Qualification of Trainee	12 th Pass
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Practice discipline, hygiene, safety and • effective communication • Visit to a garment manufacturing unit • Detailed garment analysis • Familiarization with day to day production activities • Mock production by assembly line system • Line balancing activities and measure of productivity-Time Study • Developing standard operating procedures • Calculation of standard allowed minutes • Practice of seams, samples and garment components • Practice of various exercises on Industrial sewing machine using different work aids and machine attachments 	<ul style="list-style-type: none"> • Basic communication skills and building • industrial vocabulary • Developing vocabulary, thinking ability and logical reasoning • Understanding of work ethics, importance of discipline, health and hygiene • Safety precautions in garment industry • Profile and organizational set up of a garment industry • Basic industrial terminology • Introduction to garment styles and identification of components and parts • Pre-production planning • Knowledge about spreading techniques and equipment • Cutting equipment and cut-order planning • Marker modes and marker efficiency

<ul style="list-style-type: none"> • Handling different types of fabrics • Construction of complete garment: men's • shirt, dress, trouser and T-shirt • Identification of common fabrics and flagging • Visit to textile/fabric sourcing hub • Identification of defects in fabrics & accessories • Identification of sewing and pattern defects, finishing and packing defects etc. • Measurement checking of different garments as per spec sheets • Mock garment sampling, production and inspection • Familiarization with various quality documents and reports • Testing of fabric for colour fastness, light fastness, dimensional changes etc.. 	<ul style="list-style-type: none"> • Knowledge about spreading and material handling • Production systems and planning in the • Sewing Room • Understanding of work study and production aspects of sewing • Report making and record keeping • Introduction to seams and stitches • Introduction to industrial sewing machines • Importance of work aids and machine attachments • Importance of quality and quality control • Measurement and quality principles • Fabric quality requirement and inspection • Concept of AQL and other garment inspection systems • Knowledge about infusing quality at all levels
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General Information for Textile/ Garment Testing & Quality Control

Name of Sector	garment
Name of Module	Textile/ Garment Testing & Quality Control
MES Code	GAR 704
Competency as per NCO Code	The candidate would become a professional with supervisory skills and focused specialization in textile testing and quality assurance to monitor production related activities and work as a Quality Controller, Production Executive or Assistant Production Controller.
Duration of Course	520 Hrs
Entry Qualification of Trainee	12 th Pass
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Practice discipline, hygiene, safety and • effective communication • Visit to a garment manufacturing unit • Detailed fabric and garment analysis • Introduction to various Textile Testing instruments • Testing of fabric for colour fastness, light fastness, dimensional changes, strength etc. • Familiarization with different types of fabrics • Identification of common fabrics and flagging • Visit to textile/fabric sourcing hub • Identification of defects in fabrics & accessories 	<ul style="list-style-type: none"> • Basic communication skills and building • industrial vocabulary • Developing vocabulary, thinking ability and logical reasoning • Understanding of work ethics, importance of discipline, health and hygiene • Safety precautions in textile industry • Profile and organizational set up of a textile industry • Basic industrial terminology • Principles of textile testing instruments • Quality evaluation of fibre, yarn & fabric through standard tests • Introduction to Textile Testing • Significance & Elements of Testing

<ul style="list-style-type: none"> • Identification of sewing and pattern defects, finishing and packing defects etc. • Measurement checking of different garments as per spec sheets • Mock garment sampling, production and inspection • Familiarization with various quality documents and reports 	<ul style="list-style-type: none"> • Standard Tests & Testing Conditions • Physical and Chemical testing • Introduction to garment styles and identification of components and parts • Pre-production planning • Production system and planning in the Sewing Room. • Report Making & record Keeping • Importance of Quality & Quality Control • Measurement & Quality Principles • Fabric Quality requirement and Inspection • Concept of AQL and other garment inspection System • Knowledge about infusing quality at all levels
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General Information for Apparel Production planning & Industrial Engineering

Name of Sector	Garment
Name of Module	Apparel Production planning & Industrial Engineering
MES Code	GAR 705
Competency as per NCO Code	After completing the training candidate would able to study the activities , identify the non-value adding activities to improve the efficiency and to work as a coordinator between sections to take decisions and guide the juniors in Stock distribution & Production Execution and able to analyze the systems, modify them to get the best performance, Prepare standard Operating Procedures and guide people to implement them.
Duration of Course	520 Hrs
Entry Qualification of Trainee	12 th Pass with 2 years Experience as supervisor or graduate/Diploma/Certificate in any course of Apparel Sector.
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1.Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1.Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> • Understanding the activities of different departments and their link to the activities being monitored. • Analyzing and rectifying the mistakes, and monitoring the stocks. • Planning and organizing their activities • Studying the activities and identify non- value adding wasteful activities and work to eliminate them, while adhering to the rules of Stitching Section. • Identifying the shortages and deficiencies and coordinating to get them in time. • Work with batch setting to have the lowest possible time. • Follow up with for production, quality and completing of lots as per target dates • Collecting data from dispatch on the styles and Purchase Orders in 	<ul style="list-style-type: none"> • Introduction to Manufacturing Technology • Knowledge of all departments & Textiles, Quality & Compliance • Knowledge of styles and purchase order requirements. • General understanding of time and motion study, General sewing Data, the operative efficiency, good work practices, and batch setting • Practical exposure to Industry and factory set up. • Knowledge of Inspection and taking corrective actions depending on the situation • Activities of different sections, the organization structure and the people at different levels, coordinating with different sections and with the people with in the section. • The fine aspects of production bottlenecks, dispatch priorities and production balancing.

<p>operation and the production completed.</p> <ul style="list-style-type: none"> • Understanding the changes needed in production and informing the concerned production people & the activities of different departments and their link to the activities being monitored. • Understanding the production bottlenecks • Safety precautions and familiarization with tools and equipments. • Reporting the activities in time and maintaining the records. • Educating all to follow the Standard Operating Procedures • Value addition in work. 	<ul style="list-style-type: none"> • General management skills of planning, coordinating, execution and control of the activities in the section, controlling of stocks and wastes. • General operations of data feeding and taking out Reports Line balancing in Assembly Line. • Safety guidelines. • Analytical ability & Industrial best Practices to enhance productivity and reduce time losses • Ergonomics • Communication Skills & Soft Skills • Knowledge of all departments.
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Tools and Equipment.

S.NO.	DESCRIPTION	QUANTITY
1	Note Book 100 pgs, Pen, Pencil, Eraser, Ruler, White A4 Sheets	20 Nos.
2	Measuring tape, Trimmer	20 Nos.
3	Stop Watch	10 nos.

General Information for Garment Construction Techniques

Name of Sector	garment
Name of Module	Garment Construction Techniques
MES Code	GAR 601
Competency as per NCO Code	After completion of the course the candidate will be equipped to work in the industry as Tailor/Operator and would be competent to cut and sew complete garment as per demand.
Duration of Course	410 Hrs
Entry Qualification of Trainee	8 th Pass
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	6. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	6. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> Practice Health & Safety – select, use, maintain & store – tools, equipments & clothing safely Practice of making various basic pattern of Upper & lower body block, skirt block etc. and also through made to measure direct method 	<ul style="list-style-type: none"> Knowledge of seams and stitches Introduction to industrial sewing machines Importance of work aids and machine attachments Knowledge of drafting of basic bodice block, sleeve, shirt and trouser block

<ul style="list-style-type: none"> • Practice of manipulate the pattern • Control & Operate industrial single needle lock stitch Machine • Practice of various exercises on Industrial sewing machine using different work aids and machine attachments • Handling different types of fabrics • Practice of different types of seam, plackets, packets, cuffs, collars & neck lines • Practice of cutting various upper & Lower garments, cutting techniques • To Sew various garments like top, skirt, shirt, trouser etc. 	<ul style="list-style-type: none"> • Development of various styles of collar, sleeves, shirts, cuffs, pockets etc • Knowledge of stitching of complete garments.
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TOOLS AND EQUIPMENT FOR A BATCH OF 25 TRAINEES

S No.	Descripti	Quantity
1.	Single Needle Lock Stitch Machine	20
2.	Double Needle Lock Stitch Machine	5
3.	Over Lock Machine	2
4.	Button Sewing/ Button Hole Machine	2 each
5.	Bobbin & Bobbin Case	20

6.	Seam ripper	20
7.	Scissor 10"	20
8.	Cutting Table	5
9.	Machine Attachments- Binder, Zipper Foot, Bottom Fold	
10.	Pressing Table	5
11.	Steam Press	5
12.	Pattern Tables	4
13.	Dummy	5
14.	24" Scale	20
15.	French Curve	20
16.	L-Square Scale	20
17.	Hip Curve	20
18.	Measuring Tape	20
19.	Notcher	5
20.	Tracing Wheel	5
21.	Scissors (paper Cutting)	5

General Information for Software Application in Pattern Making

Name of Sector	Garment
Name of Module	Software Application in Pattern Making
MES Code	GAR 602
Competency as per NCO Code	The program will equip students to enter the industry as knowledgeable and competent professionals who are able to work as Industrial Pattern Makers, CAD Incharge or Technical expert in Pattern Making.
Duration of Course	360 Hrs
Entry Qualification of Trainee	10 th with knowledge of garment Pattern Making & Computers
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> Practice Health & Safety – select, use, maintain & store – tools, equipments & clothing safely Practice of making various basic pattern of Upper & lower manually like body block, skirt block etc. Practice of making patterns as per Specification Sheet 	<ul style="list-style-type: none"> Basic knowledge of Computer Knowledge of basic body block, sleeve, shirt and trouser block Knowledge of development of various styles of collar, sleeves, shirts, cuffs, pockets through CAD Knowledge of Grading & Marker Making through CAD.

<ul style="list-style-type: none"> • Practice of manipulate the pattern • Practice of To making various pattern through CAD • Practice of Grading & Marker Making • Through CAD. 	
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TOOLS AND EQUIPMENT FOR A BATCH OF 15 TRAINEES

S No.	D	Quantity
1.	Computer	20
2.	Software (Pattern Making & Reach CAD)	20
3.	Digitizer	1
4.	Plotter	1

General Information for Apparel Quality & Compliance

Name of Sector	Garment
Name of Module	Apparel Quality & Compliance
MES Code	GAR 604
Competency as per NCO Code	The trained candidate shall be able to judge and accept the fabrics by construction, fabric defects, AQL and sample selection
Duration of Course	520 Hrs
Entry Qualification of Trainee	12 th Pass
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> Familiarization with tools and equipment viz standard pattern, measuring tape, yard stick Understanding the cutting tolerances of panels. Familiarization of check points. Deciding on the sample size and the rolls to be inspected as per sample plan. 	<ul style="list-style-type: none"> Introduction to Manufacturing Technology Knowledge of all departments Quality & Compliance & Basic disciplines in the industry General defects in cutting, and the systems of inspecting and reporting Knowledge of Inspection and taking corrective actions depending on the situation

<ul style="list-style-type: none"> Deciding on the parameters to be verified in details depending on the specific requirement of the customer. Checking the roll weight, roll length, GSM, width and shade difference. Checking the construction and shrinkage and comparing with the norms. Checking the fabrics for defects and grading them, accepting them or rejecting as per the norms and informing the concerned. Defects identification and flagging. Reporting the defects and rejections Mock drills – firefighting and first aid Safety precautions and familiarization with tools and equipments. 	<ul style="list-style-type: none"> Inspection Systems & tools (AQL). Testing Methodology & Test Standards The fabric quality requirements, the acceptable levels and the tolerance, the method of inspection and deciding on the approval. The concepts of AQL and 100% inspection, 4 point system of inspection and defect categorizing. Compliance & ISO Standards Analytical ability & Industrial best Practices to enhance productivity and reduce time & losses Safety guidelines. Ergonomics Communication Skills & Soft Skills Motivation First aid and fire fighting
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Tools and equipment.

S.NO.	DESCRIPTION	QUANTITY
1	Note Book 100 pgs, Pen, Pencil, Eraser, Ruler, White A4 Sheets	20 Nos.

2	Inspection tables	5
3	Inspection Machine with dome light and side mirrors	1
4	Inspection machine with flat bottom light source and side mirrors	1
5	Defects display board with classifications	1
6	Measurement Tapes	20
7	Scissors	5
8	Fabric Checking Manual and Standards	1
9	Sample garments	20nos.
10	Different types of Fabrics	As required

General Information for Software Application In Textile Design

Name of Sector	Garment
Name of Module	Software Application In Textile Design
MES Code	GAR 605
Competency as per NCO Code	After completion of the course the candidate would be able to work as a Textile designer or CAD expert and would be able to interpret and develop design of various fabrics
Duration of Course	360 Hrs
Entry Qualification of Trainee	10 th Pass with skills in sketching & Basic Computer Operations
Unit Size	20
Power Norms	7 kw
Space Norms – Work Shop - Class Room	
Instructors Qualification	1. Graduate in Apparel related subject or 3 years Diploma in Costume Design & Dress Making/Fashion Technology from recognized Institute with 2 years of Experience in the field
Desirable Qualification	1. Craft Instructor Certificate in any trade of garment Sector

Practical Competencies	Under pinning Knowledge (Theory)
<ul style="list-style-type: none"> Practice Health & Safety – select, use, maintain & store – tools, equipments & clothing safely Practice of different effects on fabrics Practice of texture Mapping, texture table, create woven material, set canvas, edit Image Practice of Digital Sample Yardage, Digital Textile Printing and spec creations of garment styles 	<ul style="list-style-type: none"> Basic knowledge of Computer Knowledge of different tools of Corel draw Knowledge of Illustration through coral draw Knowledge of 3-D designing through Reach Fashion Studio Knowledge of texture Mapping, color reduction, design repeat, color communication, Spec. creation

<ul style="list-style-type: none"> • Practice of tools, layout, different effects, bitmap, transformation, group ungroup & order • Practice of making croquis with different style • Practice of draping on croquis with different dresses 	
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TOOLS AND EQUIPMENT FOR A BATCH OF 15 TRAINEES

S No.	Description	Quantity
1	Computer	15 Nos.
2	Software (Corel-Draw & Reach Fashion Studio)	15 Nos.
3	Printer	1 No.

