

**Curriculum
For
Certificate in CAD/CAM Computerized Pattern
Designing
(Certificate Level - 6 months)
Code:VF51S016
(2013)**

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Name of the course: Certificate in CAD/CAM Computerised Pattern Designing

Overall objective of the Course

The objectives of this course are to train the people in such a way so that

- They can participate in the progress of readymade garment industry of the country.
- To increase the technical main power for CAD/CAM Computerized Pattern Designing System..
- To increase the employment.
- To fulfil the technical requirements of garment industry.
- To push them in the flow of economy, to give them confidence
- To stay able status in the society.

Competencies gained after completion of the course

At the end of the course, the trainee must be able to attain the following competencies.

- Develop Manual Pattern
- Search out Basic Knowledge of Computer
- Learn Measuring Tools and Measuring Concept
- Learn Basic Knowledge and Concept of Garment
- Organize and Maintain Work Place Environment
- Operate Gerber Grading Software
- Start Digitizing
- Create and maintain Data Storage
- Make The Pattern
- Calculate Fabric Consumption
- Communicate with Co-workers
- Make Marker
- Health and Safety
- Maintain The Record
- Develop Professionalism
- Manage Time
- Upgrade Skills

- Work In A Team

Knowledge Proficiency Details

On successful completion of course, the trainees must have acquired the following knowledge & skills:

- About IP Address
- Access Rights
- MS OFFICE
- Network Sharing
- Files conversion
- Fashion
- PDS and its versions
- Relevant CAD software
- Pattern Designing

Job Opportunities available immediately and in future

After completion of the training, candidates can find the employment opportunities in the following disciplines..

Institutes & industries in which opportunities will be available:

- Governmental institutes.
- Semi Governmental Institutes.
- Private Institutes.
- Buying Offices.
- Garment industry.

Entry requirements

- Intermediate

Minimum qualification of trainer

2 year pattern designing diploma associated with CAD/CAM.

OR

B.Sc. Textile Engineering 2- Year Industrial cum training experience in garment industry.

Medium of Instruction

- English/Urdu

Timeframe of assessment

| | |
|--------------------|------------------------|
| Duration of Course | Six Months |
| Total Hours | 800 hrs |
| Training Hours | 765 hrs |
| Module Test | 25 hrs |
| Final Test | 10 hrs |
| Per Week Hours | 30 hrs |
| Per Day Hours | 05 hrs (6 days a week) |

Overview about the program – Curriculum for Certificate in CAD/CAM Computerized Pattern Designing

| Module Title & Aim | Learning units | Theory Hours | Workplace hours | Total Hours |
|---|---|--------------|-----------------|-------------|
| <p>Module1: Learn Basic Knowledge and Concept of Garment</p> <p>Aim: This module develops competency to get Acquaintance & understanding about the basic garment</p> | <p>LIU1: Types of garments Tops:Jackets, shirts, Tee-shirt, coats, blouse etc.</p> <p>LIU2:Types of garments Bottoms:Trouser,skirt,shorts,Capri etc.</p> <p>LIU3:Types of garments Under garments: Ladies under garments, Gents under garments</p> <p>LIU4:Types of garments Other types:Sportswear,Overall,Night dresses etc.</p> <p>LIU5: Parts or components Of a garment.</p> | 5 | 20 | 25 |
| <p>Module 2: Search Out Basic Knowledge Of Computer</p> <p>Aim: This module develops competency to get Acquaintance &</p> | <p>LU1: Operate computer software.</p> <p>LU2: Learn about the hardware of computers</p> <p>LU3: Adjust input and output devices of computer</p> <p>LU4: Attach Gerber devices on equipment</p> | 5 | 20 | 25 |

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| understanding about the knowledge of computer | LU5: Learn about the internet | | | |
| Module3: Operate Gerber Software Aim: This module develops competency to get Acquaintance & understanding to run the Gerber Software | LU1: Study the software manual and learn properly about the software LU2: Start with launch pad to run the Gerber software. LU3: Learn about the software applications which are connected with each other LU4: Learn about the set up making applications. | 5 | 50 | 55 |
| Module4: Organize and Maintain Work Place Environment Aim: This module develops competency to get Acquaintance & understanding to maintain and organize the working environment | LU1:Keep the work place clean and organized LU2:Keep the electronic Cables at reasonable distance LU3:Keep the electronic devices in proper running condition LU4: Keep the work environment relaxed and comfortable. LU5:Arrange the files and documents correctly | 3 | 12 | 15 |
| Module 5: Learn Measuring Tools and Measuring Concept Aim: This module develops | LU1: keep the measuring tape with yourself every time at work place LU2: keep the scale with yourself every time at work place | 5 | 40 | 45 |

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| competency to get Acquaintance & understanding about the measurement concepts | <p>LU3: Learn the measuring concepts i.e.</p> <p>LU4: Mark measuring Points of garment.</p> <p>LU5: Mark the measurements position of garment.</p> | | | |
| <p>Module 6: Develop Manual Pattern</p> <p>Aim: This module develops competency to get Acquaintance & understanding about the manual pattern</p> | <p>LU1: Handle the pattern cutting tools</p> <p>LU2: mark outlines on the pattern sheet</p> <p>LU3: mark the grain line</p> <p>LU4: Check seam allowances</p> <p>LU5; Make the division of size chart</p> <p>LU6: Develop shapes of different areas of pattern</p> | 5 | 65 | 70 |
| <p>Module7: Start Digitizing</p> <p>Aim: This module develops competency to get Acquaintance & understanding to learn the digitizing</p> | <p>LU1: Attach the cables of digitizer properly</p> <p>LU2: Place the pattern on the digitizer in prescribe way</p> <p>LU3: Use digitizing menu and commands for pattern digitizing.</p> <p>LU4: Develop nested pattern digitizing, grading points, and functions of cursor.</p> <p>LU5:Keep the digitizer cursor in prescribed Place after closing the work</p> | 5 | 55 | 60 |
| Module8: | LU1:Create data storage areas in the | 2 | 20 | 22 |

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| <p>Create and maintain Data Storage</p> <p>Aim: This module develops competency to get Acquaintance & understanding to Store the data of Gerber Software</p> | <p>explorer</p> <p>LU2:Store data from digitizer</p> <p>LU3:Store data from converted files</p> | | | |
| <p>Module9: Knowledge of Pattern Design system (PD)and system management</p> <p>Aim: This module develops competency to get Acquaintance & understanding to make the computerized pattern</p> | <p>LU1: Evaluate tech pack</p> <p>LU2: Confirm base size.</p> <p>LU3: Make pattern using Pattern Designing Software.</p> <p>LU4: Make / Create rule table</p> <p>LU5: Apply Rule Table</p> <p>LU6: Make Model</p> <p>LU7: Grade Pattern</p> <p>LU8: Amend the pattern according to the fitting and shrinkage</p> | 5 | 70 | 75 |
| <p>Module10: Calculate Fabric Consumption</p> <p>Aim: This module develops competency to get Acquaintance &</p> | <p>LU1: Analyze and evaluate information</p> <p>LU2:Check fabric shrinkage and cut able width</p> <p>LU3: Check final size chart and garment</p> <p>LU4: Finalize pattern as per information</p> | 5 | 52 | 57 |

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| understanding to calculate the fabric consumption | LU5: Add fabric shrinkage in the pattern LU6: Withdraw the consumption based on marker. | | | |
| Module11: Make Marker Aim: This module develops competency to get Acquaintance & understanding to make the marker | LU1: Make size detail LU2: Write marker name LU3: Write order name LU4: Write order description and annotation and write lay limits LU5: Write fabric width LU6: Set the target of fabric utilization LU7: Add shrinkage LU8: Select proper model LU9: Write the fabric type LU10: Write the size range LU11: Check the parts of the garment LU12: Make marker according to target length. LU13: Plot the markers | 5 | 65 | 70 |
| | LU1:Maintain record of paper patterns provided by the customer LU2:Maintain record of files related to | 5 | 25 | 30 |

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| <p>Module12: Maintain The Record</p> <p>Aim: This module develops competency to get Acquaintance & understanding about the maintenance</p> | <p>measurements results</p> <p>LU3:Maintain record of files related to marker making</p> <p>LU4:Maintain the files related to maintenance of Gerber devices</p> | | | |
| <p>Module13: Communicate with Co-workers</p> <p>Aim: This module develops competency to get Acquaintance & understanding about the communication skills of job</p> | <p>LU1: Communicate within department</p> <p>LU2: Communicate with other departments.</p> <p>LU3: Communicate with the buyers</p> <p>LU4: Communicate with the buying offices</p> <p>LU5: Communicate with other organizations</p> <p>LU6: Adopt different ways of communication</p> | 5 | 30 | 35 |
| <p>Module14: Health and Safety</p> <p>Aim: This module develops competency to get Acquaintance & understanding about</p> | <p>LU1: Plug the cable properly</p> <p>LU2: Install the electric devices at reasonable distances.</p> <p>LU3: cover the cables properly.</p> <p>LU4: Install the fire alarm properly</p> | 5 | 25 | 30 |

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| health and safety | <p>LU5: Cover plotter knife properly.</p> <p>LU6: Deal with hazardous or emergency situations</p> <p>LU7: Install screen protectors for display</p> <p>LU8: Insect killer must be sprayed.</p> <p>LU9: Perform first aid procedure.</p> <p>LU10: Observe health, safety and security related procedures</p> <p>LU11: Follow workplace health safety and security requirements</p> <p>LU12: Follow the planning , organizing and safe work techniques</p> | | | |
| <p>Module15: Develop Professionalism</p> <p>Aim: This module develops competency to get Acquaintance & understanding to develop the professionalism</p> | <p>LU1:Participate in Training</p> <p>LU2:Interact with colleagues</p> <p>LU3:Consult with experts</p> <p>LU4:Participate in skill test/ competition</p> | 5 | 25 | 30 |
| <p>Module16: Manage Time</p> <p>Aim: This module develops</p> | <p>LU1:Manage time to complete the assigned work</p> <p>LU2:Manage work load as required by the management</p> | 5 | 25 | 30 |

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| <p>competency to get Acquaintance & understanding about the management of time</p> | <p>LU3:Prioritize tasks LU4:Meet the specified deadlines LU5:Handle the co-workers</p> | | | |
| <p>Module17: Upgrade Skills</p> <p>Aim: This module develops competency to get Acquaintance& understanding to upgrade the skills</p> | <p>LU1: Read relevant articles. LU2: Attend Seminars. LU3: Get training through institution. LU4: Communicate with technician and pattern advisor. LU5: Attend exhibitions. LU6: Explore Internet. LU7: Study different markets.</p> | <p>5</p> | <p>25</p> | <p>30</p> |
| <p>Module18: Work In A Team</p> <p>Aim: This module develops competency to get Acquaintance & understanding to create the team</p> | <p>LU1: Communicate with merchant LU2: Resolve contradictions in available information. LU3:Attend department meetings LU4: Cross check customer comments with counter sample. LU5: Keep record of data either in soft or hard form. LU6: Manage data in lead time.</p> | <p>5</p> | <p>25</p> | <p>30</p> |

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| | <p>LU7: Maintain quality standard and customer satisfaction.</p> <p>LU8: Set targets for the team.</p> <p>LU9: Perform duties and responsibilities in a positive manner</p> <p>LU10: Seek assistance from co-workers when difficulties arise</p> <p>LU11: Provide support to achieve organizational goals</p> | | | |
| Assessment Project | | | 36 | 30 |
| Total Hours | | 85 | 649 | 800 |

CAD/CAM Curriculum Contents

Module 1 Title: Learn Basic Knowledge and Concept of Garment

Objective of the Module: To get understanding about the basic knowledge and concept of garment

Duration: 25hours

Theory: 5hours

Practice: 20hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|--|---|---|------------------|-------------------|---------------------|
| LU1: Types of garments Tops: Jackets, shirts, Tee-shirt, coats , blouse etc. | <ul style="list-style-type: none"> ✓ Understand about the types of garments ✓ Able to recognize the type of garment | <ul style="list-style-type: none"> ✓ Knowledge about the garment type Jackets, shirts, Tee-shirts, coats, blouse.. ✓ Ability to work with the specified type of garment | 5 | Garments | Workshop/class room |
| LU2:Types of garments Bottoms: Trouser,skirt,shorts, Capri etc. | <ul style="list-style-type: none"> ✓ Understand about the types of garments ✓ Able to recognize the type of garment | <ul style="list-style-type: none"> ✓ Knowledge about the garment type Bottoms, Trouser, skirts shorts, Capri etc. ✓ Ability to work with the specified type of garment | 5 | Garments | Workshop/class room |
| LU3:Types of garments | <ul style="list-style-type: none"> ✓ Understand about the types | | 5 | Garments | Workshop/class room |

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| Under garments: Ladies under garments Gents under garments | of garments ✓ Able to recognize the type of garment | ✓ Knowledge about the garment type Ladies Under garments ✓ Ability to work with the specified type of garment Gents Under garments | | | |
| LU4:Types of garments Other types: Sportswear Overall Night dresses etc. | ✓ Understand about the types of garments ✓ Able to recognize the type of garment | ✓ Knowledge about the garment type Sports wear , Night dresses. ✓ Ability to work with the specified type of garment | 5 | Garments | Workshop/class room |
| LU5: Parts or components Of a garment | ✓ Understand about the parts of garment ✓ Able to recognize the parts of garment | ✓ Knowledge about the parts of a garment Parts of Garment like in Jeans, Front Panel, Back panel, Back Pockets. ✓ Ability to analyze the parts of a garment | 5 | Different components of Garments(front panel, back panel, yoke, facing etc) | Workshop/class room |

Module 2 Title: Search Out Basic Knowledge of Computer

Objective of the Module: To get understanding about the basic knowledge of computer

Duration: 25hours

Theory: 5hours

Practice: 20hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|--|--|---|------------------|--|---------------------|
| LU1: Operate computer soft wares. | <ul style="list-style-type: none"> ✓ Understand to operate the computer ✓ Able to operate the computer | <ul style="list-style-type: none"> ✓ Knowledge of using the computer soft wares ✓ Ability to work on computer applications | 6.25 | Monitor/LCD, CPU, etc | Workshop/class room |
| LU2: Learn about the hardware of computers | <ul style="list-style-type: none"> ✓ Understand about hardware of computer ✓ Able to use the hardware of computer properly | <ul style="list-style-type: none"> ✓ Knowledge of using the keyboard, mouse, printer, scanner etc. ✓ Ability to work with computer hardware | 6.25 | Keyboard, Mouse, Printers, Scanners etc. | Workshop/class room |
| LU3: Attach Gerber devices on equipment | <ul style="list-style-type: none"> ✓ Understand about the Gerber devices | <ul style="list-style-type: none"> ✓ Knowledge of using the digitizing | 6.25 | Plotter, Digitizing table etc | Workshop/class room |

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| | <ul style="list-style-type: none"> ✓ Able to attach the Gerber devices with cpu etc. | <ul style="list-style-type: none"> table and plotter etc ✓ Ability to work with Gerber devices | | | |
| LU4: Learn about the internet | <ul style="list-style-type: none"> ✓ Understand about the internet ✓ Able to use the internet | <ul style="list-style-type: none"> ✓ Knowledge of using the internet properly ✓ Ability to explore the net connection | 6.25 | Internet connection etc | Workshop/class room |

Module3 Title: Operate Gerber Software

Objective of the Module: To get understanding about the Gerber software

Duration: 55hours

Theory: 5hours

Practice: 50hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|--|---|---|------------------|---------------------------|---------------------|
| LU1: Study the software manual and learn properly about the software | <ul style="list-style-type: none"> ✓ Understand about the software ✓ Able to start the work with software | <ul style="list-style-type: none"> ✓ Knowledge of Gerber software ✓ Ability to work with Gerber software | 13.75 | Software manual, Computer | Workshop/class room |
| LU2: Start with launch pad to run the Gerber software. | <ul style="list-style-type: none"> ✓ Understand about the launch pad of software ✓ Able to start work with launch pad | <ul style="list-style-type: none"> ✓ Knowledge of Gerber software applications ✓ Ability to use the Gerber launch pad | 13.75 | computer | Workshop/class room |
| LU3: Learn about the software applications which are connected with each other | <ul style="list-style-type: none"> ✓ Understand way of working of the software ✓ Able to work with the software applications | <ul style="list-style-type: none"> ✓ Knowledge of working the software applications ✓ Ability to run the software | 13.75 | computer | Workshop/class room |
| LU4: Learn about the set up making applications. | <ul style="list-style-type: none"> ✓ Understand the supporting applications of the software ✓ Able to make the set up ✓ of application | <ul style="list-style-type: none"> ✓ Knowledge of making the set up files ✓ Ability to run the software | 13.75 | computer | Workshop/class room |

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Module 4 Title: Organize and Maintain Work Place Environment

Objective of the Module: To get understanding about the organization and maintenance of work place environment

Duration: 15hours

Theory: 3hours

Practice: 12hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|---|--|--|------------------|---|---------------------|
| LU1:Keep the work place clean and organized | <ul style="list-style-type: none"> ✓ Understand about the cleanliness of work station ✓ Able to work at clean and organized work station | <ul style="list-style-type: none"> ✓ Knowledge about cleanliness and organizing the files, computer, printer etc ✓ Ability to work at comfortable and organized work station | 3 | Files, Computer, Office table, Chairs, Computer devices etc | Workshop/class room |
| LU2:Keep the electronic Cables at reasonable distance | <ul style="list-style-type: none"> ✓ Understand to fix the cables in proper place ✓ Able to work at safe work station | <ul style="list-style-type: none"> ✓ Knowledge about electricity planning ✓ Ability to work at safe, comfortable and organized workstation | 3 | Electric cables etc | Workshop/class room |
| LU3:Keep the electronic devices in proper running condition | <ul style="list-style-type: none"> ✓ Understand to use the devices with proper way ✓ Able to work smoothly | <ul style="list-style-type: none"> ✓ Knowledge to on or off the devices properly ✓ Ability to work with smooth flow | 3 | Computer, Plotter, Digitizer etc | Workshop/class room |

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| <p>LU4: Keep the work environment relaxed and comfortable.</p> | <ul style="list-style-type: none"> ✓ Understand the requirements of the environment ✓ able to work with comfortable working environment | <ul style="list-style-type: none"> ✓ Knowledge to work with relaxed mental conditions ✓ Ability to work with comfortably | <p>3</p> | <p>Books, Manuals etc</p> | <p>Workshop/class room</p> |
| <p>LU5: Arrange the files and documents correctly</p> | <ul style="list-style-type: none"> ✓ Understand to arrange the documents etc ✓ Able to work with arranged manners | <ul style="list-style-type: none"> ✓ Knowledge to organize the workstation ✓ Ability to work in a systemize environment | <p>3</p> | <p>Record register etc</p> | <p>Workshop/class room</p> |

Module 5 Title: Learn Measuring Tools and Measuring Concept

Objective of the Module: To get understanding about the measuring tools and measuring concepts

Duration: 45hours

Theory: 5hours

Practice: 40hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|---|---|---|------------------|-----------------------|---------------------|
| LU1: keep the measuring tape with yourself every time at work place | <ul style="list-style-type: none"> ✓ Understand about the inches tape ✓ Able to use the measuring tape | <ul style="list-style-type: none"> ✓ Knowledge of inches, cm etc ✓ Ability to work with inches tape | 9 | Inches tape | Workshop/class room |
| LU2: keep the scale with yourself every time | <ul style="list-style-type: none"> ✓ Understand about the scale ✓ Able to use the scale | <ul style="list-style-type: none"> ✓ Knowledge of inches, cm etc ✓ Ability to work with scale | 9 | scale | Workshop/class room |
| LU3: Learn the measuring concepts i.e | <ul style="list-style-type: none"> ✓ Understand about the measuring concept of customer ✓ Able to measure the garment | <ul style="list-style-type: none"> ✓ Knowledge of measuring concepts ✓ Ability to measure the garment according to customer concept | 9 | Inches tape, Garment. | Workshop/class room |
| LU4: Mark measuring Points of garment | <ul style="list-style-type: none"> ✓ Understand about measuring point ✓ Able to analyze the measuring points | <ul style="list-style-type: none"> ✓ Knowledge of measuring point of a garment ✓ Ability to mark and | 9 | Inches tape. Garment. | Workshop/class room |

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| | | measure the measuring points | | | |
| LU5: Mark the measurements position of garment. | <ul style="list-style-type: none"> ✓ Understand about the measuring positions of garment. ✓ Able to analyze the positions of Measurement | <ul style="list-style-type: none"> ✓ Knowledge of the positions of measurement ✓ Ability to understand the positions measuring points | 9 | Inches tape, Garment. | Workshop/class room |

Module 6 Title: Develop Manual Pattern**Objective of the Module:** To get understanding about the manual pattern making**Duration: 70hours****Theory: 5hours****Practice: 65hours**

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|---|---|--|------------------|--|---------------------|
| LU1: Handle the pattern cutting tools | <ul style="list-style-type: none"> ✓ Understand the handling and usage of pattern cutting tools ✓ Able to handle the tools of pattern cutting | <ul style="list-style-type: none"> ✓ Knowledge of using the scissors and tracer etc. ✓ Ability to use and understand the pattern cutting tools | 11.66 | Pattern cutting table, scissor, tracer | Workshop/class room |
| LU2: mark outlines on the pattern sheet | <ul style="list-style-type: none"> ✓ Understand to mark the basic outlines of pattern ✓ Able to draw the initial lines of pattern | <ul style="list-style-type: none"> ✓ Knowledge of taking the initial steps of pattern making ✓ Ability to start the pattern Making | 11.66 | Led pencil, scale, inches tape | Workshop/class room |
| LU3: mark the grain line | <ul style="list-style-type: none"> ✓ Understand the base of pattern ✓ Able to draw the body lines of pattern | <ul style="list-style-type: none"> ✓ Knowledge of drawing the grain line ✓ Ability to draw the basic blocks | 11.66 | Scale, Led pencil, | Workshop/class room |
| LU4: Check seam allowances | <ul style="list-style-type: none"> ✓ Understand the seam allowances of the pattern | <ul style="list-style-type: none"> ✓ Knowledge of seam allowances ✓ Ability to draw the seam allowances | 1.66 | Pencil | Workshop/class room |

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| | <ul style="list-style-type: none"> ✓ Able to analyze the seam allowances | | | | |
| LU5; Make the division of size chart | <ul style="list-style-type: none"> ✓ Understand the size chart ✓ Able to divide the size chart | <ul style="list-style-type: none"> ✓ Knowledge of using the size chart ✓ Ability to use the division of size chart | 11.66 | Size chart | Workshop/class room |
| LU6: Develop shapes of different areas of pattern | <ul style="list-style-type: none"> ✓ Understand the shapes of pattern ✓ Able to make the pattern shapes | <ul style="list-style-type: none"> ✓ Knowledge of using the set square and shaping tools etc ✓ Ability to develop the pattern | 11.6 | Set square, Shaping tools etc | Workshop/class room |

Module 7 Title: Start Digitizing**Objective of the Module:** To get understanding about the digitizing**Duration: 60hours****Theory: 5hours****Practice: 55hours**

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|---|--|--|-------------------------|-------------------------------|-----------------------|
| LU1: Attach the cables of digitizer properly | <ul style="list-style-type: none">✓ Understand to attach the cables✓ Able to start the digitizer | <ul style="list-style-type: none">✓ Knowledge of starting the digitizer✓ Ability to run the digitizer | 12 | Digitizer cables, Digitizer. | Workshop/class room |
| LU2: Place the pattern on the digitizer in prescribe way | <ul style="list-style-type: none">✓ Understand to place the pattern on the digitizer✓ Able to paste the pattern | <ul style="list-style-type: none">✓ Knowledge of patching the pattern on the digitizer✓ Ability to start digitizing | 12 | Digitizer, Hard pattern, tape | Workshop/class room |
| LU3: Use digitizing menu and commands for pattern digitizing. | <ul style="list-style-type: none">✓ Understand the digitizer working✓ Able to analyze digitizer menu | <ul style="list-style-type: none">✓ Knowledge of using digitizer✓ Ability to digitize the pattern | 12 | Digitizer, Hard pattern, tape | Workshop/class room |
| LU4: Develop nested pattern digitizing, grading points, and functions of cursor | <ul style="list-style-type: none">✓ Understand the commands to digitize the nested pattern✓ Able to start nested digitizing | <ul style="list-style-type: none">✓ Knowledge of using nested digitizing commands✓ Ability to digitize nested pattern | 12 | Digitizer, Hard pattern, tape | Workshop/class room |

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| <p><i>LU5:Keep the digitizer cursor in prescribed Place after closing the work</i></p> | <ul style="list-style-type: none"> ✓ Understand to place the cursor ✓ Able to close the work | <ul style="list-style-type: none"> ✓ Knowledge close digitizing ✓ Ability to complete the work | <p>12</p> | <p>Digitizer, Hard pattern, tape</p> | <p><i>Workshop/class room</i></p> |
|--|--|--|-----------|--|-----------------------------------|

Module 8 Title: Create and maintain Data Storage

Objective of the Module: To get understanding about the creation and maintenance of data storage

Duration: 22hours

Theory: 2hours

Practice: 20hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|--|---|--|------------------|-------------------|---------------------|
| LU1: Create data storage areas in the explorer | <ul style="list-style-type: none"> ✓ Understand about the creation of data storage areas ✓ able to create storage areas | <ul style="list-style-type: none"> ✓ Knowledge of creating storage areas ✓ Ability to store the patterns Etc. | 7.33 | computer | Workshop/class room |
| LU2: Store data from digitizer | <ul style="list-style-type: none"> ✓ Understand to store the data from digitizer ✓ Able to convert the data from digitizer | <ul style="list-style-type: none"> ✓ Knowledge of using the data converter ✓ Ability to work with the converted data | 7.33 | computer | Workshop/class room |
| LU3: Store data from converted files | <ul style="list-style-type: none"> ✓ Understand to store the data from other files etc. ✓ Able to convert the data from other files | <ul style="list-style-type: none"> ✓ Knowledge of converting different type of files ✓ Ability to work with the converted data | 7.33 | computer | Workshop/class room |

Module 9 Title: Knowledge of Pattern Design system (PDS) and System Management

Objective of the Module: To get understanding about the computerized pattern making

Duration: 75hours

Theory: 5hours

Practice: 70hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|---|--|--|------------------|----------------------------|---------------------|
| LU1: Evaluate tech pack | <ul style="list-style-type: none"> ✓ Understand to analyze the tech pack ✓ Able to evaluate the technical book | <ul style="list-style-type: none"> ✓ Knowledge to understand the customer requirements ✓ Ability to work with the tech pack | 9.38 | Technical book etc | Workshop/class room |
| LU2: Confirm base size | <ul style="list-style-type: none"> ✓ Understand about the base size ✓ Able to analyze the base size | <ul style="list-style-type: none"> ✓ Knowledge of making base size ✓ Ability about the identification of base size | 9.38 | Computer Technical package | Workshop/class room |
| LU3: Make pattern using Pattern Designing Software. | <ul style="list-style-type: none"> ✓ Understand about the making of pattern ✓ Able to start the pattern making | <ul style="list-style-type: none"> ✓ Knowledge of using (PDS) pattern design system ✓ Ability to create the pattern in pattern design system | 9.38 | Computer Technical package | Workshop/class room |
| LU4: Make / Create rule table | <ul style="list-style-type: none"> ✓ Understand about the rule table ✓ Able to make the | <ul style="list-style-type: none"> ✓ Knowledge of making rule table ✓ Ability to create the rule table | 9.38 | Computer Technical package | Workshop/class room |

| | | | | | |
|---|--|---|------|----------------------------|---------------------|
| | rule table | | | | |
| LU5: Apply Rule Table | <ul style="list-style-type: none"> ✓ Understand to apply the rule table ✓ Able to apply the rule table | <ul style="list-style-type: none"> ✓ Knowledge of using the rule table ✓ Ability to work with the rule table | 9.38 | Computer Technical package | Workshop/class room |
| LU6: Make Model | <ul style="list-style-type: none"> ✓ Understand about the model ✓ Able to make the model | <ul style="list-style-type: none"> ✓ Knowledge of using the model ✓ Ability to work with model | 9.38 | Computer Technical package | Workshop/class room |
| LU7: Grade Pattern | <ul style="list-style-type: none"> ✓ Understand about the grading ✓ Able to grade the pattern | <ul style="list-style-type: none"> ✓ Knowledge to grade the pattern ✓ Ability to work with the graded pattern | 9.38 | Computer Technical package | Workshop/class room |
| LU8: Amend the pattern according to the fitting and shrinkage | <ul style="list-style-type: none"> ✓ Understand about the amendments ✓ Able to amend the pattern | <ul style="list-style-type: none"> ✓ Knowledge to make the amendments ✓ Ability to make the amendments | 9.38 | Computer Technical package | Workshop/class room |

Module 10 Title: Calculate Fabric Consumption

Objective of the Module: To get understanding about the calculation of fabric consumption

Duration: 57hours

Theory: 5hours

Practice: 52hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|--|---|---|------------------|--|---------------------|
| LU1: Analyze and evaluate information | <ul style="list-style-type: none"> ✓ Understand to evaluate the information ✓ Able to analyze the information | <ul style="list-style-type: none"> ✓ Knowledge of using the information ✓ Ability to work according to information | 9.5 | Fabric width, Shrinkage, Size rang, Size chart etc | Workshop/class room |
| LU2: Check fabric shrinkage and cut able width | <ul style="list-style-type: none"> ✓ Understand about the shrinkage and fabric width ✓ Able to analyze the shrinkage and fabric width | <ul style="list-style-type: none"> ✓ Knowledge of shrinkage an fabric width ✓ Ability to check the fabric width and shrinkage | 9.5 | Fabric width, Shrinkage, etc | Workshop/class room |
| LU3: Check final size chart and garment | <ul style="list-style-type: none"> ✓ Analyze the garment and size chart ✓ Able to understand the size chart and garment | <ul style="list-style-type: none"> ✓ Knowledge about the fabric consumption ✓ Ability to finalize the size chart and garment | 9.5 | Size chart, Garment.etc | Workshop/class room |
| LU4: Finalize pattern as per | <ul style="list-style-type: none"> ✓ Analyze the size | <ul style="list-style-type: none"> ✓ Knowledge to check the | 9.5 | Size chart, Garment.etc | Workshop/class room |

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|--|--|---|-----|----------|---------------------|
| information | <p>range in size chart</p> <ul style="list-style-type: none"> ✓ Able to select the pattern according to the requirements | <p>Final pattern</p> <ul style="list-style-type: none"> ✓ Ability to finalize the information | | | |
| LU5: Add fabric shrinkage in the pattern | <ul style="list-style-type: none"> ✓ Understand to add the shrinkage in the pattern ✓ Able to analyze the pattern with shrinkage | <ul style="list-style-type: none"> ✓ Knowledge to use the pattern with added shrinkage ✓ Ability to work with shrinkage added pattern | 9.5 | Computer | Workshop/class room |
| LU6: Withdraw the consumption based on marker. | <ul style="list-style-type: none"> ✓ Understand to make the marker for consumption ✓ Able to analyze the marker for consumption | <ul style="list-style-type: none"> ✓ Knowledge to draw the marker for consumption ✓ Ability to finalize the consumption | 9.5 | computer | Workshop/class room |

Module 11 Title: Make Marker

Objective of the Module: To get understanding about the marker making

Duration: 70hours

Theory: 5hours

Practice: 65hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|--|---|--|------------------|---------------------------|---------------------|
| LU1: Make size detail | <ul style="list-style-type: none"> ✓ Understand about the size detail ✓ Able to make the size detail | <ul style="list-style-type: none"> ✓ Knowledge of using the size detail ✓ Ability to work with the size detail | 5.38 | Computer, Order quantity, | Workshop/class room |
| LU2: Write marker name | <ul style="list-style-type: none"> ✓ Understand about the marker name ✓ Able to write the marker name | <ul style="list-style-type: none"> ✓ Knowledge of order processing ✓ Ability to start order processing | 5.38 | computer | Workshop/class room |
| LU3: Write order name | <ul style="list-style-type: none"> ✓ Understand about the order name ✓ Able to write the order name | <ul style="list-style-type: none"> ✓ Knowledge of order processing ✓ Ability to work with order editor | 5.38 | computer | Workshop/class room |
| LU4: Write order description and annotation and write lay limits | <ul style="list-style-type: none"> ✓ Understand about the order description etc ✓ Able to write the order description | <ul style="list-style-type: none"> ✓ Knowledge of order processing ✓ Ability to work with order editor | 5.38 | computer | Workshop/class room |
| LU5: Write fabric | | <ul style="list-style-type: none"> ✓ Knowledge of | 5.38 | computer | Workshop/class room |

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|---|--|---|------|----------|---------------------|
| width | <ul style="list-style-type: none"> ✓ Understand to write the fabric width ✓ Able to analyze the fabric width | <ul style="list-style-type: none"> using the fabric width ✓ Ability to check the fabric width | | | |
| LU6: Set the target of fabric utilization | <ul style="list-style-type: none"> ✓ Understand to set the fabric utilization ✓ Able to analyze the target utilization | <ul style="list-style-type: none"> ✓ Knowledge of using the target utilization ✓ Ability to work with adjusted target utilization | 5.38 | computer | Workshop/class room |
| LU7: Add shrinkage | <ul style="list-style-type: none"> ✓ Understand to add the shrinkage ✓ Able to analyze the added shrinkage | <ul style="list-style-type: none"> ✓ Knowledge of using the shrinkage format ✓ Ability to work order shrinkage | 5.38 | computer | Workshop/class room |
| LU8: Select proper model | <ul style="list-style-type: none"> ✓ Understand to select the model ✓ Able to check the model | <ul style="list-style-type: none"> ✓ Knowledge of using the model ✓ Ability to select the right model | 5.38 | computer | Workshop/class room |
| LU9: Write the fabric type | <ul style="list-style-type: none"> ✓ Understand to write the fabric type ✓ Able analyze the fabric type | <ul style="list-style-type: none"> ✓ Knowledge of using the fabric type ✓ Ability to work with fabric types | 5.38 | computer | Workshop/class room |
| LU10: Write the size range | <ul style="list-style-type: none"> ✓ Understand to write the size quantity | <ul style="list-style-type: none"> ✓ Knowledge of | 5.38 | computer | Workshop/class room |

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|---|--|--|------|----------|---------------------|
| | <ul style="list-style-type: none"> ✓ Able to analyze the size range | <ul style="list-style-type: none"> using the size quantity ✓ Ability to work with the quantity of sizes | | | |
| LU11: Check the parts of the garment | <ul style="list-style-type: none"> ✓ Understand to check the parts of garment ✓ Able to analyze the parts of garment | <ul style="list-style-type: none"> ✓ Knowledge of analyzing the parts of garment and starting marker ✓ Ability to start the marker | 5.38 | computer | Workshop/class room |
| LU12: Make marker according to target length. | <ul style="list-style-type: none"> ✓ Understand about the making of marker ✓ Able to start the marker | <ul style="list-style-type: none"> ✓ Knowledge of using the marker making ✓ Ability to work with the marker making | 5.38 | computer | Workshop/class room |
| LU13: Plot the markers | <ul style="list-style-type: none"> ✓ Understand to plot the marker ✓ Able to analyze this application | <ul style="list-style-type: none"> ✓ Knowledge to plot the marker ✓ Ability to work with marker plotting | 5.38 | computer | Workshop/class room |

Module 12 Title: Maintain the Record

Objective of the Module: To get understanding about the maintenance of records

Duration: 30hours

Theory: 5hours

Practice: 25hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|---|---|---|------------------|------------------------------|---------------------|
| LU1: Maintain record of paper patterns provided by the customer | <ul style="list-style-type: none"> ✓ Understand to maintain the record related customer paper patterns ✓ Able to analyze the paper patterns | <ul style="list-style-type: none"> ✓ Knowledge of making the system to maintain the record ✓ Ability to work with the paper patterns | 7.5 | Paper patterns Files etc. | Workshop/class room |
| LU2: Maintain record of files related to measurements results | <ul style="list-style-type: none"> ✓ Understand to maintain the record related measurements results ✓ Able to analyze the record related measurements | <ul style="list-style-type: none"> ✓ Knowledge of making the system to maintain the record ✓ Ability to work with the measurements result | 7.5 | Files etc | Workshop/class room |
| LU3: Maintain record of files related to marker making | <ul style="list-style-type: none"> ✓ Understand to maintain the record related marker making | <ul style="list-style-type: none"> ✓ Knowledge of making the system to maintain the record | 7.5 | files | Workshop/class room |

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|---|---|--|-----|--|---------------------|
| | <ul style="list-style-type: none"> ✓ Able to analyze the record related marker making | <ul style="list-style-type: none"> ✓ Ability to work with the marker making files | | | |
| LU4:Maintain the files related to maintenance of Gerber devices | <ul style="list-style-type: none"> ✓ Understand to maintain the record related Gerber devices ✓ Able to analyze the record related Gerber devices | <ul style="list-style-type: none"> ✓ Knowledge of making the system to maintain the record ✓ Ability to work with the Gerber devices | 7.5 | | Workshop/class room |

Module 13 Title: Communicate with Co-workers

Objective of the Module: To get understanding about the communication with co-worker

Duration: 35hours

Theory: 5hours

Practice: 30hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|--|---|---|------------------|--|---------------------|
| LU1: Communicate within department | <ul style="list-style-type: none"> ✓ Understand to communicate with the department ✓ Able to analyze the information | <ul style="list-style-type: none"> ✓ Knowledge of using the information ✓ Ability to work with the department | 5.83 | Technical book, Size chart, etc | Workshop/class room |
| LU2: Communicate with other departments | <ul style="list-style-type: none"> ✓ Understand to communicate with other departments ✓ Able to analyze the information | <ul style="list-style-type: none"> ✓ Knowledge of using the information ✓ Ability to work with the other department | 5.83 | Technical book, Size chart, etc | Workshop/class room |
| LU3: Communicate with the buyers | <ul style="list-style-type: none"> ✓ Understand to communicate with the buyers ✓ Able to analyze the information | <ul style="list-style-type: none"> ✓ Knowledge of using the information ✓ Ability to work with the buyer | 5.83 | Technical book, Size chart, Telecommunication, Emails, etc | Workshop/class room |
| LU4: | | <ul style="list-style-type: none"> ✓ Knowledge of | 5.83 | Technical book, | Workshop/class room |

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|--|---|--|------|--|---------------------|
| Communicate with the buying offices | <ul style="list-style-type: none"> ✓ Understand to communicate with the Buying offices ✓ Able to analyze the information | <ul style="list-style-type: none"> using the information ✓ Ability to work with the buying office | | Size chart, Telecommunication, Emails, etc | |
| LU5: Communicate with other organizations | <ul style="list-style-type: none"> ✓ Understand to communicate with other organizations ✓ Able to analyze the information | <ul style="list-style-type: none"> ✓ Knowledge of using the information ✓ Ability to work with other organizations | 5.83 | Technical book, Size chart, Telecommunication, Emails, etc | Workshop/class room |
| LU6: Adopt different ways of communication | <ul style="list-style-type: none"> ✓ Understand about the ways of communication ✓ Able to communicate | <ul style="list-style-type: none"> ✓ Knowledge of using the sources of communication ✓ Ability to work with different modes of communication | 5.83 | Direct communication Telecommunication, Emails, Fax, etc | Workshop/class room |

Module 14 Title: Health and Safety

Objective of the Module: To get understanding about the Health and Safety

Duration: 30hours

Theory: 5hours

Practice: 25hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|--|---|--|------------------|--|---------------------|
| LU1: Plug the cable properly | <ul style="list-style-type: none"> ✓ Understand to plug the electronic cables ✓ Able to analyze the cables | <ul style="list-style-type: none"> ✓ Knowledge to plugging the cables properly ✓ Ability to work smoothly and properly | 2.5 | Computer, Printer, Plotter, Digitizer, etc | Workshop/class room |
| LU2: Install the electric devices at reasonable distances. | <ul style="list-style-type: none"> ✓ Understand to install the electronic devices ✓ Able to maintain the safety | <ul style="list-style-type: none"> ✓ Knowledge about the installation of electronic devices ✓ Ability to work safely | 2.5 | Computer, Printer, Plotter, Digitizer, etc | Workshop/class room |
| LU3: cover the cables properly. | <ul style="list-style-type: none"> ✓ Understand to cover the cable properly ✓ Able to analyze the cables | <ul style="list-style-type: none"> ✓ Knowledge to cover the cables ✓ Ability work safely | 2.5 | Computer, Printer, Plotter, Digitizer, etc | Workshop/class room |
| LU4: Install the fire alarm properly | <ul style="list-style-type: none"> ✓ Understand to install the fire alarm | <ul style="list-style-type: none"> ✓ Knowledge of using the fire alarm ✓ Ability to work | 2.5 | Fire alarm | Workshop/class room |

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|--|---|--|-----|--|---------------------|
| | <ul style="list-style-type: none"> ✓ Able to analyze the fire alarm | healthy and safely | | | |
| LU5: Cover plotter knife properly. | <ul style="list-style-type: none"> ✓ Understand to cover the plotter knife ✓ Able to analyze knife cover | <ul style="list-style-type: none"> ✓ Knowledge of using the plotter knife ✓ Ability to work with plotter knife | 2.5 | Plotter knife | Workshop/class room |
| LU6: Deal with hazardous or emergency situations | <ul style="list-style-type: none"> ✓ Understand to deal with hazardous etc ✓ Able to analyze emergency situations | <ul style="list-style-type: none"> ✓ Knowledge of using health and safety equipment ✓ Ability to work safely | 2.5 | Fire calendars, Knife cover, Screen protector, | Workshop/class room |
| LU7: Install screen protectors for display | <ul style="list-style-type: none"> ✓ Understand to install the screen protector ✓ Able to analyze the display | <ul style="list-style-type: none"> ✓ Knowledge of using the screen protectors ✓ Ability to work with safe eyesight | 2.5 | Computer etc. | Workshop/class room |
| LU8: Insect killer must be sprayed | <ul style="list-style-type: none"> ✓ Understand to spray the insect killer ✓ Able to protect the environment | <ul style="list-style-type: none"> ✓ Knowledge of using the insect killer ✓ Ability to work with protected environment | 2.5 | Insect killer, | Workshop/class room |
| LU9: Perform first aid procedure | <ul style="list-style-type: none"> ✓ Understand to perform the first aid procedure ✓ Able to analyze first aid | <ul style="list-style-type: none"> ✓ Knowledge of using the first aid box ✓ Ability to do quick | 2.5 | First aid box | Workshop/class room |

| | procedure | action in emergency | | | |
|---|---|---|-----|--------------------|---------------------|
| LU10: Observe health, safety and security related procedures | <ul style="list-style-type: none"> ✓ Understand to follow the procedures ✓ Able to analyze the procedures | <ul style="list-style-type: none"> ✓ Knowledge of using the procedures ✓ Ability to teach about the health and safety requirements | 2.5 | Training materials | Workshop/class room |
| LU11: Follow workplace health safety and security requirements | <ul style="list-style-type: none"> ✓ Understand about workplace health and security requirements etc ✓ Able to analyze the workplace, safety And health policies | <ul style="list-style-type: none"> ✓ Knowledge of using the policies regarding health and safety ✓ Ability to work with safe modes | 2.5 | | Workshop/class room |
| LU12: Follow the planning , organizing and safe work techniques | <ul style="list-style-type: none"> ✓ Understand to follow the organizing and safe work techniques ✓ Able to analyze the planning, organizing and safe work techniques | <ul style="list-style-type: none"> ✓ Knowledge of using the planning, organizing and safe work techniques ✓ Ability to work with safe modes | 2.5 | Training materials | Workshop/class room |

Module 15 Title: Develop Professionalism

Objective of the Module: To get understanding about the professionalism

Duration: 30hours

Theory: 5hours

Practice: 25hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|------------------------------|---|---|------------------|--|---------------------|
| LU1:Participate in Training | <ul style="list-style-type: none"> ✓ Understand to participate in training ✓ Able to set the mind according to training | <ul style="list-style-type: none"> ✓ Knowledge of training sessions etc ✓ Ability to trained the people | 7.5 | Training material and equipment | Workshop/class room |
| LU2:Interact with colleagues | <ul style="list-style-type: none"> ✓ Understand to interact with colleagues ✓ Able to develop the relationships with colleagues | <ul style="list-style-type: none"> ✓ Knowledge of making the relationships ✓ Ability to work comfortably , speedily and with good accuracy rate | 7.5 | Debates related discoveries and inventions | Workshop/class room |
| LU3:Consult with experts | <ul style="list-style-type: none"> ✓ Understand to consult with experts ✓ Able to analyze the consultation | <ul style="list-style-type: none"> ✓ Knowledge of using the expert's opinions etc. ✓ Ability to work with confidence | 7.5 | Debates related discoveries and inventions | Workshop/class room |

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|--|--|---|------------|--|----------------------------|
| <p>LU4:Participate in skill test/competition</p> | <ul style="list-style-type: none"> ✓ Understand to participate in skill test competitions ✓ Able to analyze the competitions | <ul style="list-style-type: none"> ✓ Knowledge of conducting the skill test competitions ✓ Ability to conduct the skill test competitions | <p>7.5</p> | | <p>Workshop/class room</p> |
|--|--|---|------------|--|----------------------------|

Module 16 Title: Manage Time

Objective of the Module: To get understanding about the management of time

Duration: 30hours

Theory: 5hours

Practice: 25hour

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|--|--|--|------------------|-------------------|---------------------|
| LU1:Manage time to complete the assigned work | <ul style="list-style-type: none"> ✓ Understand to complete the targets with in time ✓ Able to analyze the targets | <ul style="list-style-type: none"> ✓ Knowledge to complete Assigned work ✓ Ability to complete the targets | 6 | | Workshop/class room |
| LU2:Manage work load as required by the management | <ul style="list-style-type: none"> ✓ Understand to manage the work load ✓ Able to analyze the work load | <ul style="list-style-type: none"> ✓ Knowledge to manage the work load ✓ Ability to manage the work load | 6 | | Workshop/class room |
| LU3:Prioritize tasks | <ul style="list-style-type: none"> ✓ Understand to prioritize The tasks ✓ Able to analyze the priorities | <ul style="list-style-type: none"> ✓ Knowledge to prioritize The tasks ✓ Ability to prioritize the tasks | 6 | | Workshop/class room |
| LU4:Meet the specified deadlines | <ul style="list-style-type: none"> ✓ Understand to meet the specified deadlines etc ✓ Able analyze the | <ul style="list-style-type: none"> ✓ Knowledge to meet the deadlines etc ✓ Ability to meet the specified deadlines | 6 | | Workshop/class room |

| | | | | | |
|---------------------------|--|---|---|--|--|
| | specified deadlines | | | | |
| LU5:Handle the co-workers | <ul style="list-style-type: none"> ✓ Understand to handle the co-workers ✓ Able to handle the co-workers | <ul style="list-style-type: none"> ✓ Knowledge to handle the co-workers ✓ Ability to win output from co-workers | 6 | | |

Module 17 Title: Upgrade Skills

Objective of the Module: To get understanding to upgrade the skills

Duration: 30hours

Theory: 5hours

Practice: 25hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|---|---|---|------------------|--|---------------------|
| LU1: Read relevant articles | <ul style="list-style-type: none"> ✓ Understand to read the relevant articles ✓ Able to read the relevant articles | <ul style="list-style-type: none"> ✓ Knowledge to search out The relevant articles ✓ Ability to analyze the relevant articles | 4.29 | Information related updated software etc | Workshop/class room |
| LU2: Attend Seminars | <ul style="list-style-type: none"> ✓ Understand to attend the seminars ✓ Able to attend the seminars | <ul style="list-style-type: none"> ✓ Knowledge of managing the seminars ✓ Ability to analyze the seminars | 4.29 | Information related updated software etc | Workshop/class room |
| LU3: Get training through institution | <ul style="list-style-type: none"> ✓ Understand to get the training through institutions ✓ Able to analyze the institutions | <ul style="list-style-type: none"> ✓ Knowledge of training sessions ✓ Ability to trained the workers/labor | 4.29 | Learning material | Workshop/class room |
| LU4: Communicate with technician and pattern advisor. | <ul style="list-style-type: none"> ✓ Understand to communicate with technical experts | <ul style="list-style-type: none"> ✓ Knowledge of communication with technical experts | 4.29 | Information related updated software etc | Workshop/class room |

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|-------------------------------|---|---|------|--|---------------------|
| | <ul style="list-style-type: none"> ✓ Able to communicate with technical experts | <ul style="list-style-type: none"> ✓ Ability to work with technical expert | | | |
| LU5: Attend exhibitions. | <ul style="list-style-type: none"> ✓ Understand to attend the exhibitions ✓ Able to attend the exhibitions | <ul style="list-style-type: none"> ✓ Knowledge of managing the exhibitions ✓ Ability to analyze the exhibitions | 4.29 | Information related updated software etc | Workshop/class room |
| LU6: Explore Internet. | <ul style="list-style-type: none"> ✓ Understand to explore the internet ✓ Able to analyze the internet | <ul style="list-style-type: none"> ✓ Knowledge of using the internet ✓ Ability to work with internet | 4.29 | Internet connection etc | Workshop/class room |
| LU7: Study different markets. | <ul style="list-style-type: none"> ✓ Understand to study different markets etc. ✓ Able to analyze the different markets | <ul style="list-style-type: none"> ✓ Knowledge to explore the markets ✓ Ability to search out the markets | 4.29 | Information related updated software etc | Workshop/class room |

Module 18 Title: Work In a Team

Objective of the Module: To get understanding about to work in a team

Duration: 30hours

Theory: 25hours

Practice: 25hours

| Learning Unit | Learning Outcome | Learning Elements | Duration (Hours) | Material Required | Learning Place |
|---|--|--|------------------|--|---------------------|
| LU1: Communicate with merchant | <ul style="list-style-type: none"> ✓ Understand to communicate with merchant ✓ Able to share information with merchandiser | <ul style="list-style-type: none"> ✓ Knowledge to discuss the matters with merchant ✓ Ability to analyze the information etc | 2.73 | Customer tack pack, Customer comments, Counter sample | Workshop/class room |
| LU2: Resolve contradictions in available information. | <ul style="list-style-type: none"> ✓ Understand to resolve the contradictions ✓ Able to analyze the information | <ul style="list-style-type: none"> ✓ Knowledge to tackle the matters ✓ Ability to face the terrible situations | 2.73 | Customer tack pack, Customer comments, Counter sample Production planning material, Records, Daily plans etc | Workshop/class room |
| LU3:Attend department meetings | <ul style="list-style-type: none"> ✓ Understand to attend the department meetings ✓ Able to discuss the matters in meeting | <ul style="list-style-type: none"> ✓ Knowledge to attend the meetings ✓ Ability to organize the meetings | 2.73 | Production planning material, Records, Daily plans etc | Workshop/class room |
| LU4: Cross check customer comments with counter sample. | <ul style="list-style-type: none"> ✓ Understand to cross check the information | <ul style="list-style-type: none"> ✓ Knowledge to analyze the customer's comments etc | 2.73 | Customer tack pack, Customer comments, Counter sample etc | Workshop/class room |

| | | | | | |
|---|---|---|------|--|---------------------|
| | <ul style="list-style-type: none"> ✓ Able to check and evaluate the customer's provided information | <ul style="list-style-type: none"> ✓ Ability to work with customer's comments | | | |
| LU5: Keep record of data either in soft or hard form. | <ul style="list-style-type: none"> ✓ Understand to keep the record ✓ Able to analyze the record | <ul style="list-style-type: none"> ✓ Knowledge to maintain the record ✓ Ability to store or safe the data | 2.73 | Production planning material, Records, Daily plans etc | Workshop/class room |
| LU6: Manage data in lead time. | <ul style="list-style-type: none"> ✓ Understand to manage date in lead-time ✓ Able to meet the targets | <ul style="list-style-type: none"> ✓ Knowledge to manage the targets ✓ Ability to work in time | 2.73 | Production planning material, Records, Daily plans etc | Workshop/class room |
| LU7: Maintain quality standard and customer satisfaction. | <ul style="list-style-type: none"> ✓ Understand to maintain quality standards etc ✓ Able to analyze the quality standards | <ul style="list-style-type: none"> ✓ Knowledge of quality policies ✓ Ability to satisfy the customers etc | 2.73 | Customer tack pack, Customer comments, etc | Workshop/class room |
| LU8: Set targets for the team. | <ul style="list-style-type: none"> ✓ Understand to set targets for team ✓ Able to set the team | <ul style="list-style-type: none"> ✓ Knowledge to manage the team ✓ Ability to lead the team | 2.73 | Production planning material, Records, Daily plans etc | Workshop/class room |
| LU9: Perform duties and responsibilities in a | <ul style="list-style-type: none"> ✓ Understand to perform the duties and responsibilities | <ul style="list-style-type: none"> ✓ Knowledge to set the responsibilities ✓ Ability to work | 2.73 | Production planning material, Records, Daily plans etc | Workshop/class room |

| | | | | | |
|---|---|---|------|--|---------------------|
| positive manner | <ul style="list-style-type: none"> ✓ Able to analyze the responsibilities | positively | | | |
| LU10: Seek assistance from co-workers when difficulties arise | <ul style="list-style-type: none"> ✓ Understand to seek assistance from co-workers ✓ Able to solve the difficulties | <ul style="list-style-type: none"> ✓ Knowledge to coordinate with co-workers ✓ Ability to face the difficulties | 2.73 | Production planning material, Records, Daily plans etc | Workshop/class room |
| LU11: Provide support to achieve organizational goals | <ul style="list-style-type: none"> ✓ Understand to provide support in organizational goals ✓ Able to support the team | <ul style="list-style-type: none"> ✓ Knowledge to achieve the organizational goals ✓ Ability to support in difficulties | 2.73 | Production planning material, Records, Daily plans etc | Workshop/class room |

CAD/CAM Curriculum Assessment

Module 1 Title: Learn Basic Knowledge and Concept of Garment

Objective of the Module: To get understanding about the basic knowledge and concept of garment

Duration: 2hours

Theory: 0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|---|-------------------|----------------------|---|--|----------------------|
| M1-LU1: Types of garments Tops: Jackets,shirts,Tee-shirt,coats,blouse etc. | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain the different types of garments ✓ Describe the different types of jacket ✓ Demonstrate the fitting of jacket | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M1-LU2:Types of garments Bottoms: Trouser,skirt,shorts, Capri etc. | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the different types of garments ✓ Describe the different types of trouser ✓ Demonstrate the fitting of trouser | | |
| M1-LU3:Types of garments Under garments: Ladies under garments Gents under | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the different types of garments ✓ Describe the different types of undergarments | | |

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| garments | | | <ul style="list-style-type: none"> ✓ Demonstrate the fitting of undergarments | | |
| M1-LU4:Types of garments Other types: Sportswear Overall Night dresses etc. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the different types of garments ✓ Describe the different types of sportswear garments ✓ Demonstrate the fitting of sportswear garments | | |
| M1-LU5: Parts or components Of a garment | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the different parts of a garment ✓ Describe the different types of back pocket ✓ Demonstrate the shapes of different types of coin pocket | | |

Module 2 Title: Search Out Basic Knowledge of Computer

Objective of the Module: To get understanding about the basic knowledge of computer

Duration: 2 hours

Theory: 0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|--|-------------------|----------------------|---|--|----------------------|
| M2-LU1: Operate computer software's. | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain, the different types of computer software which are used to support the Gerber software ✓ Describe the usage of software ✓ Demonstrate and identify different soft wares | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M2-LU2: Learn about the hardware of computers | | | Trainee will <ul style="list-style-type: none"> ✓ Explain, the different types of hardware which are attached to computer to support the Gerber software or used specially for Gerber software ✓ Describe the usage of plotter, digitizer, auto cutter etc ✓ Demonstrate and identify different functions of output devices of Gerber technology | | |
| M2-LU3: Adjust input and output devices of | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the types of input and output | | |

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| | | | <p>devices</p> <ul style="list-style-type: none"> ✓ Describe the usage of input and output devices ✓ Demonstrate and identify different input and output devices(printer, cpu, monitor, scanner etc) | | |
| M2-LU4: Attach Gerber devices on equipment | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain different types of Gerber devices ✓ Describe the usage of Gerber devices ✓ Demonstrate and identify the different Gerber devices | | |
| M2-LU5: Learn about the internet | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain what is the internet ✓ Describe the usage of internet ✓ Demonstrate and identify the most popular links of internet | | |

Module 3 Title: Operate Gerber Software

Objective of the Module: To get understanding about the Gerber software

Duration: 2 hours

Theory: 0.5hours

Practice: 1.5hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|---|-------------------|----------------------|---|--|----------------------|
| M3-LU1: Study the software manual and learn properly about the software | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain about the installation of Gerber soft ware ✓ Describe learning of soft ware from soft ware manual ✓ Demonstrate to take initial step to start the working with soft ware | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M3-LU2: Start with launch pad to run the Gerber software. | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the different versions of soft ware available in the market ✓ Describe the different types of Gerber soft ware applications and their purpose ✓ Demonstrate and identify the functions of launch pad | | |
| M3-LU3: Learn about the software applications which are connected with each other | | | Trainee will <ul style="list-style-type: none"> ✓ Explain two most important applications of soft ware ✓ Describe the usage of soft ware and its role in the garment industry ✓ Demonstrate and identify the benefits | | |

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| | | | of connection of Gerber software applications | | |
| M3-LU4: Learn about the set up making applications. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the role of annotation in the marker making ✓ Describe the usage of set up making applications ✓ Demonstrate and identify the set up making files and their role in the Gerber software | | |

Module 4 Title: Organize and Maintain Work Place Environment

Objective of the Module: To get understanding about the organization and maintenance of work place environment

Duration: 2 hours

Theory: 0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|--|-------------------|----------------------|--|--|----------------------|
| M4-LU1:Keep the work place clean and organized | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain, what means of cleanliness of work station ✓ Describe the organization of workstation ✓ Demonstrate and identify the set up of different work stations | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M4-LU2:Keep the electronic Cables at reasonable distance | | | Trainee will <ul style="list-style-type: none"> ✓ Explain about the electricity planning of a workstation for smooth flow of electricity and to make the workstation comfortable ✓ Describe the fixation of electric cables at workstation ✓ Demonstrate the planning of devices cables | | |
| M4-LU3:Keep the electronic devices in proper running | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the functions of different | | |

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| condition | | | <p>devices of system and Gerber software</p> <ul style="list-style-type: none"> ✓ Describe the attachment of cables with the devices ✓ Demonstrate and identify the different devices of system and Gerber Technology | | |
| M4-LU4: Keep the work environment relaxed and comfortable. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the characteristics of the personality for excellent working environment ✓ Describe steps to make the environment relax and comfortable ✓ Demonstrate the set up of arranged and comfortable working environment | | |
| M4-LU5: Arrange the files and documents correctly | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the best system to arrange the data , files and documents ✓ Describe the systemize working environment of any organization ✓ Demonstrate and identify the system to categorize the files and document under the proper heads | | |

Module 5 Title: Learn Measuring Tools and Measuring Concept

Objective of the Module: To get understanding about the measuring tools and measuring concepts

Duration: 2 hours

Theory:0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|--|-------------------|----------------------|---|--|----------------------|
| M5-LU1: keep the measuring tape with yourself every time at work place | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain the conversion from inches to centimeter ✓ Describe the usage of measuring tape during the measurement of a garment ✓ Demonstrate and identify the different types of measuring units as per requirement of customer | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M5-LU2: keep the scale with yourself every time | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the conversion from millimeters to centimeters ✓ Describe the usage of scale during the measurement of small parts of a garment ✓ Demonstrate and identify units in inches | | |
| M5-LU3: Learn the measuring concepts i.e. | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the different methods of measuring the seat of a garment | | |

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| | | | <ul style="list-style-type: none"> ✓ Describe the measurements of a garment ✓ Demonstrate and identify the different points of measurement | | |
| M5-LU4: Mark measuring Points of garment | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the different ways of measuring the seat ✓ Describe the measuring points of a garment ✓ Demonstrate small parts measurement of a garment | | |
| M5-LU5: Mark the measurements position of garment. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the different measuring positions of a garment ✓ Describe different ways of measuring the knee position ✓ Demonstrate the seat position of a garment | | |

Module 6 Title: Develop Manual Pattern

Objective of the Module: To get understanding about the manual pattern making

Duration: 2 hours

Theory:0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|--|-------------------|----------------------|---|--|----------------------|
| M6-LU1: Handle the pattern cutting tools | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain types of pattern cutting tools to take the initial steps(pattern cutting table) ✓ Describe the right usage of pattern cutting tools at right time for making the patterns on the pattern sheets ✓ Demonstrate and identify the functions of different pattern cutting tools at different steps of making the patterns (scissors,, tracer, pattern cutting table etc) | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M6-LU2: mark outlines on the pattern sheet | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the initial steps to start the cutting of pattern on the pattern sheet ✓ Describe the basic outline on which the drawing of pattern will be started ✓ Demonstrate and identify the marking of pattern outlines through which we can make different shapes of different areas of the pattern | | |
| M6-LU3: mark the | | | | | |

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| grain line | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the grain line which shows the direction of pattern and which is base of pattern ✓ Describe the purpose of grain line in the pattern ✓ Demonstrate and identify how to draw the grain line in the pattern | | |
| M6-LU4: Check seam allowances | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain, what are the seam allowances of the patterns ✓ Describe the usage of seam allowances (sewing margins) for different operations ✓ Demonstrate and identify the seam allowances of different patterns | | |
| M6-LU5; Make the division of size chart | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the different types of size charts of different regions ✓ Describe the usage of size charts of any customer ✓ Demonstrate and identify the seam allowances of different operations | | |
| M6-LU6: Develop shapes of different areas of pattern | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the types of pattern shapes of different regions | | |

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| | | | <ul style="list-style-type: none">✓ Describe the difference between the shapes of men's and women's crotch✓ Demonstrate and identify the scoop area of basic five pocket jeans | | |
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Module 7 Title: Start Digitizing

Objective of the Module: To get understanding about the digitizing

Duration: 2hours

Theory: 0.5hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|--|-------------------|----------------------|---|--|----------------------|
| M7-LU1: Attach the cables of digitizer properly | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain the type of cables which are attached with the digitizer to connect with the system and electricity ✓ Describe the usage of digitizer ✓ Demonstrate to take initial step to start the digitizing | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M7-LU2: Place the pattern on the digitizer in prescribe way | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the placement of pattern on the digitizer ✓ Describe the working area of digitizer ✓ Demonstrate the prescribe way to start the digitizing of pattern | | |
| M7-LU3: Use digitizing menu and commands for pattern digitizing. | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the functions of digitizing menu commands which is made on left side of digitizer ✓ Describe the way of using the commands on digitizer menu ✓ Demonstrate and identify the role of grain line during the pattern digitizing | | |

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| <p>M7-LU4: Develop nested pattern digitizing, grading points, and functions of cursor</p> | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the nested pattern digitizing commands ✓ Describe the usage of grading points command on digitizer ✓ Demonstrate and identify the functions of cursor | | |
| <p>M7-LU5: Keep the digitizer cursor in prescribed Place after closing the work</p> | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the proper place for the cursor of digitizer ✓ Describe the way of using the cursor of a digitizer ✓ Demonstrate and identify the role of cursor during digitizing | | |

Module 8 Title: Create and maintain Data Storage

Objective of the Module: To get understanding about the creation and maintenance of data storage

Duration: 2 hours

Theory: 0.5hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|--|-------------------|----------------------|--|--|----------------------|
| M8-LU1:Create data storage areas in the explorer | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain the creation of data storage in the Gerber explorer ✓ Describe the different ways of using the Gerber explorer ✓ Demonstrate the pattern working through the storage areas | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M8-LU2:Store data from digitizer | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the storage of date from digitizer to Gerber explorer ✓ Describe the usage of date from digitizer in the Pattern Design System(PDS) ✓ Demonstrate and identify the modifications of data in edit digitizing | | |
| M8-LU3:Store data from converted files | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the different types of converters available in the Launch Pad of Gerber Technology ✓ Describe the usage of converted date | | |

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| | | | through different converters ✓ Demonstrate and identify the conversion of different files | | |
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Module 9 Title: Knowledge of Pattern Design system (PDS) and System Management

Objective of the Module: To get understanding about the computerized pattern making

Duration: 2hours

Theory: 0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|--|-------------------|----------------------|---|--|----------------------|
| M9-LU1: Evaluate tech pack | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain the evaluation of technical pack of a customer ✓ Describe the contents of a technical pack for different organizations ✓ Demonstrate and identify the role of technical pack for cad cam | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M9-LU2: Confirm base size | | | Trainee will <ul style="list-style-type: none"> ✓ Explain about the base size of a pattern in men’s wear etc ✓ Describe the base size for different regions and gender ✓ Demonstrate and identify importance of base size | | |
| M9-LU3: Make pattern using Pattern Designing Software. | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the PDS (pattern design system) ✓ Describe the working style of Pattern Design System | | |

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| | | | <ul style="list-style-type: none"> ✓ Demonstrate and identify the role of Pattern Design System in the Gerber Software | | |
| M9-LU4: Make / Create rule table | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the rule table application in Gerber software ✓ Describe the usage of rules table ✓ Demonstrate and identify the purpose of rule table | | |
| M9-LU5: Apply Rule Table | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the implementation of rule table ✓ Describe the way of applying rule table ✓ Demonstrate and identify the role of rule table in the Pattern Design System | | |
| M9-LU6: Make Model | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the making of model in Gerber software ✓ Describe the usage and importance of a model ✓ Demonstrate and identify the purpose of model | | |
| M9-LU7: Grade | | | <p>Trainee will</p> | | |

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| Pattern | | | <ul style="list-style-type: none"> ✓ Explain the grading software of Gerber technology and grading of a pattern ✓ Describe the usage and importance of pattern grading ✓ Demonstrate and identify link of rule table with pattern grading | | |
| M9-LU8: Amend the pattern according to the fitting and shrinkage | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the amendments of pattern ✓ Describe the purpose of amendments ✓ Demonstrate and identify the role of shrinkage | | |

Module 10 Title: Calculate Fabric Consumption

Objective of the Module: To get understanding about the calculation of fabric consumption

Duration: 2 hours

Theory: 0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|--|-------------------|----------------------|--|--|----------------------|
| M10-LU1: Analyze and evaluate information | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain about the evaluation of information collected from different sources (merchant, cutting, fabric procurement etc) ✓ Describe the way of analyzing the information of different departments etc ✓ Demonstrate and identify the role of correct information for calculating fabric consumption | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M10-LU2: Check fabric shrinkage and cut able width | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the way of checking shrinkage of fabric provided by cutting department ✓ Describe the purpose of fabric shrinkage ✓ Demonstrate and identify the cut able width of fabric | | |
| M10-LU3: Check final size chart and garment | | | Trainee will <ul style="list-style-type: none"> ✓ Explain about the functions of size chart during the consumption process | | |

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| | | | <ul style="list-style-type: none"> ✓ Describe the usage of size chart for grading the pattern ✓ Demonstrate and identify the checking of garment and size chart | | |
| M10-LU4: Finalize pattern as per information | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the finalization of pattern for consumption ✓ Describe the usage of pattern for consumption ✓ Demonstrate and identify the source of finalizing the information | | |
| M10-LU5: Add fabric shrinkage in the pattern | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the way of adding shrinkage in the pattern ✓ Describe types of adding shrinkage in the pattern ✓ Demonstrate and identify effects of shrinkage on the pattern | | |
| M10-LU6: Withdraw the consumption based on marker. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the mathematical formula for consumption ✓ Describe the purpose of calculating consumption ✓ Demonstrate and identify the marker efficiency rate for consumption | | |

Module 11 Title: Make Marker

Objective of the Module: To get understanding about the marker making

Duration: 2 hours

Theory: 0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|---|-------------------|----------------------|--|--|----------------------|
| M11-LU1: Make size detail | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain ,what is size detail ✓ Describe the usage of size detail ✓ Demonstrate and identify the role of size detail for making the marker | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M12-LU2: Write marker name | | | Trainee will <ul style="list-style-type: none"> ✓ Explain about the marker name ✓ Describe usage of marker name ✓ Demonstrate and indentify the role of marker name | | |
| M11-LU3: Write order name | | | Trainee will <ul style="list-style-type: none"> ✓ Explain about the order name ✓ Describe usage of order name ✓ Demonstrate and indentify the role of order name | | |
| M11-LU4: Write order description and annotation and | | | Trainee will | | |

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| write lay limits | | | <ul style="list-style-type: none"> ✓ Explain about the order description ✓ Describe the usage of annotation ✓ Demonstrate and identify the purpose of lay limits etc | | |
| M11-LU5: Write fabric width | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the fabric width column ✓ Describe the role of fabric width in marker making ✓ Demonstrate the checking of fabric width <p>In the cutting department</p> | | |
| M11-LU6: Set the target of fabric utilization | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the target utilization ✓ Describe the usage of target utilization ✓ Demonstrate and identify the role of target utilization in the marker making | | |
| M11-LU7: Add shrinkage | | | <ul style="list-style-type: none"> ✓ Explain about the shrinkage column in the marker making ✓ Describe the usage of shrinkage in marker making ✓ Demonstrate and identify the role of shrinkage in the marker making | | |
| M11-LU8: Select | | | | | |

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| proper model | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the selection of model ✓ Describe the advantages and disadvantages of selecting the right model ✓ Demonstrate and identify proper way of selecting the right model | | |
| M11-LU9: Write the fabric type | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the fabric type ✓ Describe the usage of fabric type ✓ Demonstrate and identify the purpose of fabric type | | |
| M11-LU10: Write the size range | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the sizes of marker ✓ Describe purpose of sizes using in the marker ✓ Demonstrate and link of size range used in the marker | | |
| M11-LU11: Check the parts of the garment | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the checking of parts of the garment during making the marker ✓ Describe the checking process of parts of the garment ✓ Demonstrate and identify the importance of checking process | | |

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| M11-LU12: Make marker according to target length. | | | Trainee will <ul style="list-style-type: none">✓ Explain about the different type of target oriented marker making commands✓ Describe the usage of commands✓ Demonstrate and identify the achievement of target length | | |
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Module 12 Title: Maintain the Record

Objective of the Module: To get understanding about the maintenance of records

Duration: 2 hours

Theory: 0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|--|-------------------|----------------------|---|--|----------------------|
| M12-LU1:Maintain record of paper patterns provided by the customer | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain about the paper pattern provided by the customer ✓ Describe the usage of paper pattern provided by the customer ✓ Demonstrate and identify the importance of customer provided paper pattern | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M12-LU2:Maintain record of files related to measurements results | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the system about the maintenance of record ✓ Describe the advantages and disadvantages of an organized system ✓ Demonstrate and identify the importance of measurements results files | | |
| M12-LU3:Maintain record of files related to marker making | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the system about the | | |

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| | | | <p style="text-align: center;">maintenance of record</p> <ul style="list-style-type: none"> ✓ Describe the advantages and disadvantages of an organized system ✓ Demonstrate and identify the importance of marker making record | | |
| <p>M12-LU4: Maintain the files related to maintenance of Gerber devices</p> | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the system about the maintenance of record ✓ Describe the advantages and disadvantages of an organized system ✓ Demonstrate and identify the purpose of maintaining the record related to Gerber devices | | |

Module 13 Title: Communicate with Co-workers

Objective of the Module: To get understanding about the communication with co-worker

Duration: 2 hours

Theory: 0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|--|-------------------|----------------------|---|--|----------------------|
| M13-LU1: Communicate within department | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain the communication within department ✓ Describe the purpose of communication ✓ Demonstrate and identify the benefits of departmental communication | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M13-LU2: Communicate with other departments | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the communication with other departments ✓ Describe the purpose of communication ✓ Demonstrate and identify the benefits of communication with other departments | | |
| M13-LU3: Communicate with the buyers | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the communication with the buyer ✓ Describe the purpose of communication | | |

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| | | | <ul style="list-style-type: none"> ✓ Demonstrate and identify the benefits of communication with the buyer | | |
| M13-LU4: Communicate with the buying offices | | | <ul style="list-style-type: none"> ✓ Explain the communication with the buying offices ✓ Describe the purpose of communication ✓ Demonstrate and identify the benefits of communication with the buying offices | | |
| M13-LU5: Communicate with other organizations | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the communication with other organizations ✓ Describe the purpose of communication ✓ Demonstrate and identify the benefits of communication with other organizations | | |
| M13-LU6: Adopt different ways of communication | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain different types of communication ✓ Describe the usage of different communication modes etc ✓ Demonstrate and identify benefits of different communication modes | | |

Module 14 Title: Health and Safety

Objective of the Module: To get understanding about the Health and Safety

Duration: 2 hours

Theory: 0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|--|-------------------|----------------------|---|--|----------------------|
| M14-LU1: Plug the cable properly | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain to plug the cable properly ✓ Describe benefits of plugging the cables properly ✓ Demonstrate and identify the purpose of plugging the cables properly | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M14-LU2: Install the electric devices at reasonable distances. | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the installation of electric devices ✓ Describe the benefits of installing the electric devices at reasonable distance ✓ Demonstrate and identify the purpose of installing the devices at reasonable distance | | |
| M14-LU3: cover the cables properly. | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the coverage of electric cables | | |

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| | | | <ul style="list-style-type: none"> ✓ Describe benefits of covering the cables properly ✓ Demonstrate and identify the purpose of covering the cables properly | | |
| M14-LU4: Install the fire alarm properly | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the installation of fire alarm ✓ Describe the benefits of fire alarm ✓ Demonstrate and identify the purpose of fire alarm | | |
| M14-LU5: Cover plotter knife properly. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the coverage of plotter knife ✓ Describe the benefit of covering the plotter knife ✓ Demonstrate and identify the purpose of plotter knife | | |
| M14-LU6: Deal with hazardous or emergency situations | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain how to deal with hazardous ✓ Describe the different types of hazardous ✓ Demonstrate and identify the requirements of emergency situations | | |
| M14-LU7: Install | | | <p>Trainee will</p> | | |

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| screen protectors for display | | | <ul style="list-style-type: none"> ✓ Explain about the screen protectors ✓ Describe benefits of screen protectors ✓ Demonstrate and identify the purpose of screen protectors | | |
| M14-LU8: Insect killer must be sprayed | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the insect killers ✓ Describe the benefits of insect killers ✓ Demonstrate and identify the purpose of insect killers | | |
| M14-LU9: Perform first aid procedure | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the first aid procedures to secure and protect the health of labor ✓ Describe the benefits of first aid facility during the duty ✓ Demonstrate and identify the purpose of first aid facility | | |
| M14-LU10: Observe health, safety and security related procedures | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain how to observe the health, safety and security related procedures ✓ Describe the benefits of health, safety and security related procedures ✓ Demonstrate and identify the steps to take care health, safety and | | |

| | | | security related procedures | | |
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| M14-LU11: Follow workplace health safety and security requirements | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain how to follow the work place health, safety and security requirements ✓ Describe the different type of health, safety and security requirements ✓ Demonstrate and identify the benefits of health, safety and security requirements | | |
| M14-LU12: Follow the planning , organizing and safe work techniques | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain how to follow the safe work techniques ✓ Describe the different type of safe techniques ✓ Demonstrate and identify the benefits of safe techniques | | |

Module 15 Title: Develop Professionalism

Objective of the Module: To get understanding about the professionalism

Duration: 2 hours

Theory: 0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|----------------------------------|-------------------|----------------------|--|--|----------------------|
| M15-LU1:Participate in Training | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain about the participation in training for the development of professionalism ✓ Describe the individual and collective benefits ✓ Demonstrate and identify the role of participation in the prosperity of organization | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M15-LU2:Interact with colleagues | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the types of interaction with the colleagues ✓ Describe the usage of inaction for the benefits of organization ✓ Demonstrate and identify the role of interaction for the benefits of organization | | |
| M15-LU3:Consult with experts | | | Trainee will <ul style="list-style-type: none"> ✓ Explain consultation with the experts to develop the professional expertise ✓ Describe the positive usage of | | |

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| | | | meetings <ul style="list-style-type: none"> ✓ Demonstrate and identify the benefits of meetings for the organization | | |
| M15- LU4:Participate in skill test/ competitions | | | Trainee will <ul style="list-style-type: none"> ✓ Explain about the participation in skill tests or completion ✓ Describe the individual and collective benefits ✓ Demonstrate and identify the role of participation in the prosperity of organization | | |

Module 16 Title: Manage Time

Objective of the Module: To get understanding about the management of time

Duration: 2 hours

Theory: 0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|--|-------------------|----------------------|--|--|----------------------|
| M16-LU1:Manage time to complete the assigned work | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain the management of time in connection with assignments ✓ Describe the way of using time for assigned work ✓ Demonstrate and identify the role and importance of time for the assignments | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M16-LU2:Manage work load as required by the management | | | Trainee will <ul style="list-style-type: none"> ✓ Explain work load and its management with in limited time ✓ Describe to analyze and share the work load of the department ✓ Demonstrate and identify the disadvantages of continues work load | | |
| M16-LU3:Prioritize tasks | | | Trainee will <ul style="list-style-type: none"> ✓ Explain about the priority of task according to customer requirements | | |

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| | | | <ul style="list-style-type: none"> ✓ Describe to analyze the priorities of task keeping in view the department capacity and requirement ✓ Demonstrate and identify the importance of priorities | | |
| M16-LU4:Meet the specified deadlines | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the deadlines and its management within the given time ✓ Describe the steps to meet the deadlines ✓ Demonstrate and identify the benefits of meeting the deadlines | | |
| M16-LU5:Handle the co-workers | | | <ul style="list-style-type: none"> ✓ Explain the handling of co-workers to co-ordinate with them and to ensure. to get them ready in any kind of emergency ✓ Describe the way of getting the output from the co-workers keeping in view the quality standards and customer requirements ✓ Demonstrate and identify the importance of co-workers for the department | | |

Module 17 Title: Upgrade Skills

Objective of the Module: To get understanding to upgrade the skills

Duration: 2 hours

Theory: 0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|---|-------------------|----------------------|---|--|----------------------|
| M17-LU1: Read relevant articles | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain the reading of relevant articles For upgrading the skills ✓ Describe the effects of reading the articles to upgrade the skills ✓ Demonstrate and identify the role of these activities on the career | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M17-LU2: Attend Seminars | | | Trainee will <ul style="list-style-type: none"> ✓ Explain the importance of seminars ✓ Describe the usage of seminars ✓ Demonstrate and identify the management of seminars | | |
| M17-LU3: Get training through institution | | | Trainee will <ul style="list-style-type: none"> ✓ Explain about the training of institutions ✓ Describe the effects of training ✓ Demonstrate and identify the | | |

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| | | | importance of training in the career | | |
| M17-LU4: Communicate with technician and pattern advisor. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the type communication with technical experts ✓ Describe the benefits of communication ✓ Demonstrate and identify the effect of communication on the career | | |
| M17-LU5: Attend exhibitions. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the importance of exhibitions ✓ Describe the usage of exhibitions ✓ Demonstrate and identify the management of exhibitions | | |
| M17-LU6: Explore Internet. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the search of related material on the internet ✓ Describe the way of using the internet for upgrading the skills ✓ Demonstrate and identify the role of internet for related topics | | |
| M17-LU7: Study different markets. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about to visits of markets to search about the updates regarding the new versions of software and hardware | | |

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| | | | <ul style="list-style-type: none">✓ Describe the benefits of searching the markets✓ Demonstrate and identify the role of market research | | |
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Module 18 Title: Work In a Team

Objective of the Module: To get understanding about to work in a team

Duration: 2 hours

Theory: 0.5 hours

Practice: 1.5 hours

| Learning Unit | Theory Days/hours | Workplace Days/hours | Recommended Formative Assessment | Recommended Methodology | Scheduled Dates |
|---|-------------------|----------------------|---|--|----------------------|
| M18-LU1: Communicate with merchant | 0.5 | 1.5 | Trainee will <ul style="list-style-type: none"> ✓ Explain the type of communication with the merchant like the functions of telephone-mail or fax etc ✓ Describe the technical aspects of the discussion like discussion of comments given by the customer or different aspects of size chart provided by the customer ✓ Demonstrate and identify the role of communication with the merchant for the benefits of organization | <ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test | At the end of module |
| M18-LU2: Resolve contradictions in available information. | | | Trainee will <ul style="list-style-type: none"> ✓ Explain to resolve the contradiction in the available information ✓ Describe the steps to resolve the contradiction in the available information ✓ Demonstrate and identify the disadvantages of contradiction during the running process of production | | |
| M18-LU3:Attend | | | Trainee will | | |

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| department meetings | | | <ul style="list-style-type: none"> ✓ Explain about the different topics of departmental meetings ✓ Describe the usage of meeting minutes ✓ Demonstrate and identify the role and importance of meeting in the progress of organization | | |
| M18-LU4: Cross check customer comments with counter sample. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the customer comments ✓ Describe the implementation of customer comments ✓ Demonstrate the cross checking with the garment | | |
| M18-LU5: Keep record of data either in soft or hard form. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the types of data storage ✓ Describe the usage of data which is store in either form ✓ Demonstrate and identify the importance of data | | |
| M18-LU6: Manage data in lead time. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the lead-time ✓ Describe the usage of lead-time ✓ Demonstrate and identify the purpose of lead-time | | |

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| M18-LU7: Maintain quality standard and customer satisfaction. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the quality standards to produce excellent quality products ✓ Describe the implementation of different quality standards at different stages of production ✓ Demonstrate and identify the advantages of different quality standards at their related production stages | | |
| M18-LU8: Set targets for the team. | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about team working ✓ Describe the requirements of working together ✓ Demonstrate and identify the steps to achieve the goals of team | | |
| M18-LU9: Perform duties and responsibilities in a positive manner | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the passion of positive thinking during the duty ✓ Describe the benefits of positive thinking for the company ✓ Demonstrate and identify the effects of positive thinking on the career | | |
| M18-LU10: Seek assistance from co-workers when difficulties arise | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the difficulties during duty | | |

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| | | | <ul style="list-style-type: none"> ✓ Describe the solutions of difficulties arise during the duty ✓ Demonstrate and identify co-operation with co-workers | | |
| M18-LU11: Provide support to achieve organizational goals | | | <p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the organizational goals ✓ Describe the sources of support to achieve the organizational goals ✓ Demonstrate and identify the mental level of person to support in achieving the organizational goals | | |

List of Machinery/Equipment/Tools

(For a Class of 25 Students)

| | |
|---------------------------|-----------------|
| NAME OF TRADE | CAD/CAM |
| Duration of Course | 6 Months |

| Sr.# | Nomenclature of Equipment/Tools | Quantity |
|-------------|--|-----------------|
| 1 | Systems (computer set) | 25 |
| 2 | Plotters | 01 |
| 3 | Digitizers | 02 |
| 4 | Scales | 25 |
| 5 | Inches tapes | 25 |
| 6 | scissors | 12 |
| 7 | Cutting tables | 06 |
| 8 | Set squares | 12 |

| | | |
|----|--------------------|----|
| 9 | French curve | 12 |
| 10 | Stapler | 01 |
| 11 | First aid box | 01 |
| 12 | Fire extinguishers | 01 |

List of Consumable Materials

(For a Class of 25 Students)

| Sr.# | Name of Material/Items | Quantity/Student | For 25 students |
|-------------|-------------------------------|-------------------------|------------------------|
| 1 | Pattern sheets | 25 | 625 |
| 2 | Led pencils | 02 | 50 |
| 3 | Erasers | 02 | 50 |
| 4 | Paper roll (plotter paper) | | 05 |
| 5 | Staple pins | 01 box | 25 boxes |
| 6 | Ebro tape | 01 | 25 |
| 7 | Plotter pen/catarage | | 15 |

Reference Material

- Course Manual For Data and system management
- Course Manual For Maker Making
- Colleagues
- Internet
- Helping Notes Of Gerber Software
- Pattern and Grading Books
- Technical Experts

Contributions for Development of This Curriculum

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