

**Curriculum  
For  
Certificate in Pattern Drafting & Grading  
(Certificate Level - 6 months)  
Code:VF51S020  
(2013)**

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## **Overall objective of the course**

### **Name of the course**

- Certificate in Pattern Drafting & Grading

### **Overall objective of the course**

Following participation in all classes, the student will be able to demonstrate the ability

- To identify flat pattern principles
- To apply flat pattern manipulation to basic design including bodice, skirts, dresses, sleeves, collars, and necklines
- To understand how the 2 dimensional shape can be translated into 3 dimensional form
- A thorough understanding and use of the pattern tools
- Understand fabric behaviors
- To understand test fitting
- Getting skilled and proficiency in the field of Pattern Drafting & Grading
- To enhance productivity & quality of end products
- Understand material consumption/pattern efficiency
- To make them competent in the field of Pattern Drafting & Grading

### **Competencies gained after completion of the course**

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

- Review of Assignment
- Communicate
- Work in a Team
- Create Pattern- Basic Block
- Trial Garments
- Apply Health & Safety
- Perform Grading- Basic

- Perform Grading for Bulk Production
- Upgrade skills
- Pattern Room Management
- Develop Professionalism
- Manage Time
- Knowledge of Sewing Machines / Attachments
- Take Body & Garment Measurements
- Drafting Pockets, Collars, Belts, Openings & Cuffs etc
- Maintain Equipment Module

### **Knowledge Proficiency Details**

At the end of the course, the trainees must have acquired the following knowledge & skills:

- Knowledge of garment market demand in many countries with respect to pattern making
- Know fashion designing and analyze various designs
- Knowledge of conversion methods / techniques of flat pattern making
- Must be able to recognize Pleat, Dart, Tuck, gathers and many other technical items used in the garment
- Can recommend material such as fabric, thread and other accessories according to quality, design and fashion required for garment
- Types and functions of different Industrial Sewing Machines.
- Parts of Sewing Machines/ their functions.
- Installation of different accessories.
- Knowledge of machine common trouble shooting

### **Job Opportunities available immediately and in future**

The trainees have the opportunities after successful completion of the course “Pattern Drafting & Grading “

- Garment Factories Local & Export (Knitwear + Woven garments).
- Research & Development for Apparels & Garments Organizations
- Self-Employment
- Boutiques and Fashion houses

- Cottage Industry
- Buying house
- Garments and Fabric broker job

### **Entry requirements**

- Minimum Matriculation
- Aptitude Test

### **Minimum qualification of trainer**

2- Years Certificate 3- Years Industrial training and working experience.

OR

B.Sc. Textile Engineering with 2- Year Industrial experience

### **Medium of Instruction**

- Urdu / English

### **Timeframe of assessment**

Duration of Course	Six Months
Total Hours	810 Hrs
Training Hours	800 Hrs
Module Test	25 Hrs
Final Test	10 Hrs
Per Week Hours	30 Hrs
Per Day Hours	06hrs (6 days a week)

## Overview about the program – Curriculum for Pattern Drafting & Grading

Module Title & Aim	Learning units	Theory hours	Workplace hours	Total Hours
<b>Module 1 : Review of Assignment</b>  <b>Aim:</b> This module develops understanding Garment Industry working environment, sizing systems	LU-1 Introduction to Garment Industry & Role of Pattern Maker  LU-2 : Review Tech Pack  LU-3 Review size chart  LU-4 Review sample system  LU-5 Review of terminology  LU-6 Review Instructions by Merchandiser / Customer	15	15	30
<b>Module 2 : Communicate</b>  <b>Aim:</b> This module develops skills in communication	LU-1 Communicate with merchant  LU-2 Communicate with designer  LU-3 Communicate with team  LU-4 Communicate with other departments  LU-5 Communicate with customer	10	0	10
<b>Module 3 : Work in a Team</b>  <b>Aim:</b>	LU-1 Job responsibility  LU-2 Respect other team members	10	0	10

<p>This module develops understanding about teams</p>	<p>LU-3 Solve problems LU-4 Follow other team members LU-5 Cooperate with other members</p>			
<p><b>Module 4 : Take Body &amp; Garment Measurements</b></p> <p><b>Aim:</b> This module develops competency to get understand about Body measurements</p>	<p>LU-1 Take Body measurement LU-2 Prepare measurement chart LU-3 Take Garment measurement</p>	<p>5</p>	<p>35</p>	<p>40</p>
<p><b>Module 5: Create Pattern- Basic Block</b></p> <p><b>Aim:</b> This module develops skills in drafting Basic Blocks</p>	<p>LU-1 Arrange tools / Equipment required LU-2 Review Fabric behaviour LU-3 Draft rectangle (using maximum length &amp; width) LU-4 Construction of basic block and pattern LU-5 Draft of final pattern LU-6 Mark points of measurement and labelling the pattern LU-7 Match points by lines and curves as per pattern requirement using tools LU-8 Review the lines, curves , Seam/</p>	<p>10</p>	<p>150</p>	<p>160</p>

	washing / elasticity Allowances LU-9 Review the shape of the pattern LU-10 Make final pattern LU-11 Cutting of fabric			
<b>Module 6 : Trial Garments :</b>  <b>Aim:</b> This module develops skills about measuring techniques	LU-1 Note down before wash specs LU-2 Note down after wash specs LU-3 Ensure that dummy/ model is accurate LU-4 Review of required garment shape LU-5 Present the garment LU-6 Finish the garment LU-7 Style the garment	5	20	25
<b>Module 7 : Apply Health &amp; Safety</b>  <b>Aim:</b> This module develops understanding about work environment	LU-1 Demonstrate safe handling of tools and equipment LU-2 Use personal protective equipment LU-3 Demonstrate personal health and safety Practical's LU-4 Ensure safe working environment LU-5 Apply health and safety Practical for others	5	10	15
<b>Module 8 : Perform Grading- Basic</b>	LU-1 View basic design specs sheet	10	155	165



<p><b>Aim:</b> This module develops competency to get an understanding about basic grading</p>	<p>LU-2 Trace-off basic pattern LU-3 Mark grade points using formula LU-4 Match grade points with lines/curves LU-5 Trace off all new patterns individually LU-6 Make the final patterns from grading LU-7 Review shapes and specs of all patterns LU-8 Making patterns ready for use</p>			
<p><b>Module 9 : Perform Grading for Bulk Production</b></p> <p><b>Aim:</b> This module develops understanding about Grading for production</p>	<p>LU-1 Meeting with Production People LU-2 Trace off basic pattern LU-3 Mark grade points using formula LU-4 Add/subtract allowances for production LU-5 Match grade points with lines/curves LU-6 Trace off all new patterns individually LU-7 Make the final patterns from grading LU-8 Review shapes and specs of all patterns LU-9 Making patterns ready for use</p>	0	80	80
<p><b>Module 10 : Upgrade skills</b></p>	<p>LU-1 Read magazines/books</p>	30	0	30

<p><b>Aim:</b> This module develops Upgrading skills</p>	<p>LU-2 Attend seminars/workshops LU-3 Attend exhibitions LU-4 Attend training courses LU-5 Explore internet LU-6 Meeting with Professionals</p>			
<p><b>Module 11 : Pattern Room Management</b></p> <p><b>Aim:</b> This module develops understanding about department management</p>	<p>LU-1 Maintain harmony of the department LU-2 Pattern room planning LU-3 Manage patterns, tools LU-4 Record keeping</p>	5	15	30
<p><b>Module 12 : Develop Professionalism</b></p> <p><b>Aim:</b> This module develops understanding about professionalism</p>	<p>LU-1 Participate in Training LU-2 Interact with colleagues LU-3 Consult with experts LU-4 Participate in skill test/ competition</p>	15	0	15
<p><b>Module 13 : Manage Time</b></p> <p><b>Aim:</b></p>	<p>LU-1 Manage time to complete the assigned work</p>	5	10	15

<p>This module improve time-management skill</p>	<p>LU-2 Manage work load as required by the management</p> <p>LU-3 Prioritize tasks</p> <p>LU-4 Meet the specified deadlines</p> <p>LU-5 Handle the co-workers</p>			
<p><b>Module 14 :</b> <b>Knowledge of Sewing Machines / Attachments</b></p> <p><b>Aim:</b> This module develops understanding about sewing machines</p>	<p>LU-1 Understand basic &amp; Advance sewing process</p> <p>LU-2 knowledge of all sewing machines</p> <p>LU-3 Use of most of the attachments</p>		75	75
<p><b>Module 15 :</b> <b>Drafting Pockets, Collars, Belts, Openings &amp; Cuffs etc</b></p> <p><b>Aim:</b> This module develops skills in drafting accessories about team work</p>	<p>LU-1 Draw Square or Rectangle block</p> <p>LU-2 Mark measurement points &amp; notches</p> <p>LU-3 Match measurements points by lines or curves</p> <p>LU-4 Review shape and measurement</p> <p>LU-5 Cut the final lines</p> <p>LU-6 Trace off pattern</p> <p>LU-7 Add seam allowances</p> <p>LU-8 Final review the pattern</p>		75	75

	LU-9 Cut the pattern for use			
<b>Module 16 :</b> <b>Maintain Equipment</b>  <b>Aim:</b> This module develops understanding about tools maintenance	LU-1 Verifying tools & Equipment quality on daily basis  LU-2 Replace measuring tape  LU-3 Replace set square, French curve after dimming the printing on scale/edge on it  LU-4 Sharpen scissors	5	20	25

# Course Name: Curriculum Contents for Pattern Drafting and Grading

**Module 1 Title: Review Assignment**

**Objective of the Module:** To get an understanding of Pattern Master's Job

**Duration: 40 hours**

**Theory: 20 hours**

**Practical:20 hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
<b>LU-1 Understand the Garment Industry &amp; Role of Pattern Maker</b>	<p>Understand the Principles or procedure of the garment Industry &amp; Different types of Garments &amp; Role of Pattern Maker</p> <p>Able to understand the job description of pattern maker</p>	<p>Knowledge of different techniques of pattern making prevailing in the industry along with responsibilities of pattern master</p> <p>Ability to understand and coordinate with pattern department especially the pattern maker</p>	3	Different Types of Garments ( Knitted , Denim, Local dress shirts , Dungarees Table	Class Room
<b>LU-2 Knowing the tech Pack for a Pattern Master</b>	<p>Understand the technical sheet/pack and important parts of the sheet concerned with the pattern making</p> <p>Able to understand technical specifications mentioned in specs sheet</p>	<p>Knowledge of many styles of the technical packages / measurement and requirement for the pattern mentioned in the sheet</p> <p>Ability to understand different styles and technical specifications</p>	3	Technical Sheets of different buyers and local customers	Class Room
<b>LU-3 Understand &amp; Review size chart</b>	<p>Understand different types of sizing system used in different countries</p> <p>Able to recognize and understand size chart of different countries as well</p>	<p>Knowledge of size systems : Males, Females, children's , Boys Girls Etc</p> <p>Ability to take sizes. (Garments and human)</p>	4	Different size standards charts	Class Room

	as local.				
<b>LU-4 Knowledge of sample system</b>	Understand Samples and different types of samples  Able to understand sample system	Knowledge of apparels (Garments ) and How to make samples  Ability to recognize different culture's sizing	4	Garments as Samples Table	Class Room
<b>LU-5 Review Instructions by Merchandiser / Customer</b>	Understand the role of merchandiser and process of merchandiser.  Able to understand technical language for garment manufacturing	Knowledge of main points to be discussed with the customer/ merchandiser necessary to make pattern  Ability to perform efficiently under customer's guidance	4		Class Room
<b>LU-6 Review of terminology</b>	An understanding of technical terminology	Knowledge of basic terms used in pattern making	2		Class Room

**Module 2 Title: Communicate**

**Objective of the Module:** An understanding the importance of Communication between Pattern Maker and relevant persons (Customer/Merchandiser)

**Duration: 10 hours**

**Theory:10 hours**

**Practical:0 hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
<b>LU-1</b> <b>Knowledge and An understanding of Communication</b>	Understand Communication and what to be discussed with merchandiser  Able to freely communicate by any medium available	Knowledge of communication skills and communication between a Pattern Master & Merchandiser  Ability to discuss all technical points which may cause sampling, production, or aesthetic aspect of the garment	2	White Board Note Book	Class Room
<b>LU-2</b> <b>What to Communicate with designer and when</b>	Understand the role of designer and points to be discussed with the designer with respect to pattern making  Able to understand Designer's ambitions with respect to the garment	Knowledge of communication skills and communication between a Pattern Master & Merchandiser  Ability to communicate exactly the required points Ability to communicate with designer	2	White Board Note Book	Do
<b>LU-3</b> <b>What to Communicate with team when and Why</b>	Understand the importance of interaction with team members  Able to communicate exactly what to discussed	Knowledge of Importance of communication with the team members from Cut to pack, from Marketing to Pattern making  Ability to use all communication tools timely when required	2	White Board Note Book	Do

<p><b>LU-4</b></p> <p><b>Communicate with other departments</b></p>	<p>Understand the importance of involvement of the concerned department to make pattern</p> <p>Able to communicate with concerned departments</p>	<p>Knowledge of communication with the different departments</p> <p>Ability to coordinate with other department</p>	<p>2</p>	<p>White Board Note Book</p>	<p>Do</p>
<p><b>LU-5</b></p> <p><b>Communicate with customer</b></p>	<p>Understand the most important part of the communication which is Customer</p> <p>Able to discuss with customer or purchaser</p>	<p>Knowledge of the requirement of the customer to make patterns</p> <p>Ability to communicate with customer</p>	<p>2</p>	<p>White Board Note Book</p>	<p>Do</p>



**Module 3: Title: Work in a Team****Objective of the Module:** Acquire knowledge & an understanding of working in Team**Duration: 10 hours****Theory: 10 hours****Practical:0hours**

<b>Learning Unit</b>	<b>Learning Outcome</b>	<b>Learning Elements</b>	<b>Duration (Hours)</b>	<b>Material Required</b>	<b>Learning Place</b>
<b>LU-1 An understanding responsibility</b>	Understand the responsibility  Able to understand responsibility	Knowledge of responsibility  Ability to well understand the pattern master's job	2	White Board Note Book	Class Room
<b>LU-2 An understanding of working in Team</b>	Understand the role of Team  Able to understand responsibilities of a team member	Knowledge of the Team (what is team?)  Ability to grab the skills to work in a team	2	White Board Note Book	Do
<b>LU-3 An understanding the Problem Solving skills</b>	Understand problems and get skilled in problems solving  Able to solve problems very sharply	Knowledge of problems solving  Ability to diagnose problem and solve them	2	White Board Note Book	Do
<b>LU-4 Follow other team members</b>	Understand the importance of team  Able to be in a team	Knowledge of skills required for good things to be followed  Ability to follow the team members	2	White Board Note Book	Do

<b>LU-5 Cooperate with other members</b>	Understand the working in Team  Able to work in a team	Knowledge of cooperation with team members  Ability to cooperate with team members	2	White Board Note Book	Do
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**Module 4 Title: Take Body & Garment Measurements****Objective of the Module:** An understanding of Body and Garment measurement**Duration: 40 hours****Theory:10 hours****Practical:30 hours**

<b>Learning Unit</b>	<b>Learning Outcome</b>	<b>Learning Elements</b>	<b>Duration (Hours)</b>	<b>Material Required</b>	<b>Learning Place</b>
<b>LU-1 Take Body measurement</b>	An understanding of Body measurement required for drafting a pattern  Able to get measurements directly for a body	Knowledge of body measurements  Ability to make list of body measurements	10	White Board Measuring Tape Dummy/Body Form	Class Room
<b>LU-2 Prepare measurement chart</b>	An understanding of preparing measurement chart for drafting patterns  Able to make charts for pattern drafting	Knowledge of measurement chart and its importance  Ability to make chart of different body measurements and conclude variations	15	White Board Note Book	Lab Room
<b>LU-3 Take Garment measurement</b>	An understanding of and taking garment measurement  Able to measure garments accurately	Knowledge of many types of garments and their measurements  Ability to get measurements from different types of garments with many types of material	15	Different Garments Measurement Tape Note Book	Lab Room

**Module 5 Title: Create Pattern- Basic Block**

**Objective of the Module:** To get an understanding, Knowledge & skill in Creating Basic Blocks

**Duration: 200 hours**

**Theory:50hours**

**Practical:150 hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
<b>LU-1 Knowledge of tools / Equipment required to draft patterns</b>	An understanding the Tools , Equipment their sizes and quality  Able to identify right tools	Knowledge of different types of tools and equipment from international market to local market  Ability to use and recognize right tools for the right job	10	All Pattern making tools	Lab Room
<b>LU-2 An understanding Fabrics</b>	Understand the fabric behavior of different types (Cotton, synthetic etc.)  Able to well understand fabric characteristics	Knowledge of fabrics & their behavior with respect to pattern making  Ability to understand fabric properties	20	Different Types of Fabrics	Lab Room
<b>LU-3 Draft rectangle</b>	Understand geometry and its importance in pattern making  Able to draw lines and understand angles	Knowledge of some mathematics especially geometry to draw patterns  Ability to draw rectangles, circles and shapes of different garment types	20	Pattern Sheets Stationery Pattern Tools Note Book	Lab Room
<b>LU-4 Construction of basic block and pattern</b>	Tracing the basic block and adding ease according to the silhouette	Knowledge of design variation	20	Pattern Sheets Stationery Pattern Tools Note Book	Lab Room

<b>LU-5 Draft of final pattern</b>	Understand the drafting procedure and how to finally draw sample pattern  Able to draw final pattern	Knowledge of lines , curves , angles and different shapes  Ability to draw a pattern on a given spec	40	Pattern Sheets Stationery Pattern Tools Note Book	Lab Room
<b>LU-6 Mark points of measurement on the rectangle</b>	Understand marking on sheet to make shapes  Able to mark desired or required points	Knowledge of measuring points to keep in mind for pattern drafting requirement Ability to mark all required points as per pattern making sheets ( technical sheet )	20	Pattern Sheets Stationery Pattern Tools Note Book	Lab Room
<b>LU-7 Match points by lines and curves as per pattern requirement using tools</b>	Understand the marked points and matching them to give it a pattern shape  Able to make final shape by matching points	Knowledge of shapes and curves to be given by matching points marked on sheet  Ability to draft final pattern by points marked as per specification	15	Pattern Sheets Stationery Pattern Tools Note Book	Lab Room
<b>LU-8 Review the lines, curves , Seam/ washing / elasticity Allowances</b>	An understanding seam lines ,buffers and washing allowances  Able to recheck lines	Knowledge of seam allowance and allowances for washing and different other requirement  Ability to perform revision of lines and shapes	15	Pattern Sheets Stationery Pattern Tools Note Book	Lab Room
<b>LU-9 Review the shape of the pattern</b>	Understand and visualize the final shape of the pattern  Able to recheck and finalize shapes	Knowledge of different shapes  Ability to review final shapes of pattern	5	Pattern Sheets Stationery Pattern Tools Note Book	Lab Room

<b>LU-10</b> <b>Make final pattern</b>	Understand the requirement of final pattern  Able to draw final pattern	Knowledge & vision of the final pattern  Ability to make final pattern	10	Pattern Sheets Stationery Pattern Tools Note Book	Lab Room
<b>LU-11</b> <b>Cutting the Fabric</b>	Understand the marking and cutting of the fabric	Knowledge of the grain lines according to the Pattern ( on grain, cross grain bias )	25	Fabric Pattern Tools	

**Module 6: Title: Trial Garments****Objective of the Module:** To get an understanding of Trial Garments**Duration: 30 hours****Theory: 10 hours****Practical:20 hours**

<b>Learning Unit</b>	<b>Learning Outcome</b>	<b>Learning Elements</b>	<b>Duration (Hours)</b>	<b>Material Required</b>	<b>Learning Place</b>
<b>LU-1 Knowledge of writing systems of different specs</b>	Understand of writing specification , before was  Able to write different types of specs	Knowledge of specification for before wash to be noted  Able to write specs	3	White Board Garment Table	Class Room
<b>LU-2 Note down after wash specs</b>	Understand after wash specification  Able to note the required specs	Knowledge of specification for after wash to be noted and why  Ability to note down specs from garment and body	2	White Board Table Garment	Class Room
<b>LU-3 Ensure that dummy/ model is accurate</b>	Understand the trial garment and dummy sizes and shape  Able to understand confirm dummy or garment sizes	Knowledge of different typed of models and dummies  Ability to ensure the final shape & specs of dummy	5	White Board Dummy Garment	Class Room
<b>LU-4 Review of required garment shape</b>	Understand the final look and shape of the garment  Able to review the	Knowledge of different types of garments shapes with respect to esthetic aspect	5	White Board Table Garment	Class Room

	garment shapes	Ability to understand many types of garments, styles and their shapes			
<b>LU-5 Present the garment</b>	Understand the importance of garment presentation for final approval  Able to present garment	Knowledge of presenting the garment to the concerned person  Ability to present garment which is made from the pattern	5	White Board Table Garment	Class Room
<b>LU-6 Finish the garment</b>	An understanding the final look of the garment by adding button , rivets or some manual wok  Able to give final look to the garment	Knowledge of accessories  Ability to finalize the garment by adding embellishment etc.	5	White Board Table. Garment	Class Room
<b>LU-7 Style the garment</b>	An understanding garment styling like lines, season for which the garment is being produced  Able to perform styling the garment	Knowledge of different styles , lines and customers requirements  Ability to understand styles of garment	5	White Board Garment	Class Room



**Module 7: Title: Apply Health & Safety****Objective of the Module:** To get an understanding of Safety requirement (Tools etc.)**Duration: 20 hours****Theory:10 hours****Practical:10hours**

<b>Learning Unit</b>	<b>Learning Outcome</b>	<b>Learning Elements</b>	<b>Duration (Hours)</b>	<b>Material Required</b>	<b>Learning Place</b>
<b>LU-1 Knowledge of safety requirement</b>	An understanding of safety tools required to wear or use when making patterns  Able to perform safety measures	Knowledge of safety tools & equipment's  Ability to use of safety tools	4	White Board Note Book	Class Room
<b>LU-2 Use personal protective equipment</b>	Understand the importance of personal protective  Able to use personnel safety measures by applying protective equipments	Knowledge of personal protective tools  Ability to apply personal protective equipments	5	White Board Note Book	Class Room
<b>LU-3 Demonstrate personal health and safety Practicals</b>	Understand the importance of health and safety requirement  Able to tell about health & safety measures	Knowledge of health and safety Practicals  Ability to present health & safety Practicals	5	White Board Note Book	Class Room
<b>LU-4 Ensure safe</b>	Understand the need	Knowledge of safe working environment	3		Class Room

<b>working environment</b>	of safe working environment  Able to adopt all safety measures	Ability to grab the skills to ensure the safe working environment		White Board Note Book	
<b>LU-5  Apply health and safety Practical for others</b>	Understand the importance of health & Safety Practicals and train others for the same  Able to practically apply safety Practicals	Knowledge of training regarding safety Practicals  Ability to apply health & safety Practicals in Pattern room as well as in daily life	3	White Board Note Book	Class Room

**Module 8 Title: Perform Grading- Basic**

**Objective of the Module:** To get an understanding of Grading and Grading systems

**Duration: 210 hours**

**Theory:60 hours**

**Practical:150 hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
<b>LU-1 Knowledge of basic design specs sheet</b>	An understanding of Basic design of the garment and specs  Able to recognize basic designs	Knowledge of slopers  Ability to know basic designs	20	Pattern sheets Stationery Tools	Class Room
<b>LU-2 Trace off basic pattern (Medium Size )</b>	Understand how to trace off basic pattern on butter paper and then on pattern sheet  Able to trace basic pattern as well as every pattern	Knowledge of tracing techniques  Ability to trace off all patterns	25	Pattern sheets Stationery Tools Table	Lab Room
<b>LU-3 Mark grade points using formula</b>	Understand the grading and grading techniques  Able to know the grade points and mark	Knowledge of grading system  Ability to mark grading points	25	Pattern sheets Stationery Tools Table	Lab Room
<b>LU-4 Match grade points with lines/curves</b>	Understand the mark points from where the grading is to be done to make shapes (curves/straight lines etc.)  Able to get skilled in matching points	Knowledge of marking techniques of grading points  Ability to match all graded points	50	Pattern sheets Stationery Tools Table	Lab Room

<b>LU-5 Make the final patterns from grading</b>	Understand making of final pattern  Able to construct the final pattern after grading	Knowledge of how to make final pattern  Ability to draw final pattern	50	Pattern sheets Stationery Tools Table	Lab Room
<b>LU-6 Review shapes and specs of all patterns</b>	Understand shapes  Able to make final shapes (curves etc.)	Knowledge of many styles of shapes used in tops and bottoms  Ability to make final shapes (curves etc.)	15	Pattern sheets Stationery Tools Table	Lab Room
<b>LU-7 Making patterns ready for use</b>	An understanding of finalizing the pattern  Able to make final patterns for use	Knowledge of making the pattern final  Ability to use of skills to know the patterns for production	25	Pattern sheets Stationery Tools Table	Lab Room

**Module 9 Title: Perform Grading for Bulk Production**

**Objective of the Module:** To get an understanding of making patterns final through grading

**Duration: 80 hours**

**Theory:20 hours**

**Practical:60 hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
<b>LU-1 Meeting with Production People</b>	An understanding of the meeting for getting help in making patterns final through grading  Able to conduct meeting with production and quality persons	Knowledge of production process required for pattern making  Ability to Get skilled in communication	10	White Board Note Book	Class Room
<b>LU-2 Trace off basic pattern</b>	Understand how to trace off basic pattern on tracing paper and then on pattern sheet  Able to trace basic pattern as well as every pattern	Knowledge of tracing techniques  Ability to trace off all patterns	10	Pattern Sheets Table Pattern Tools	Lab Room
<b>LU-3 Mark grade points using formula</b>	Understand the grading and grading techniques  Able to know the grade points and mark	Knowledge of grading system  Ability to mark grading points	15	Pattern Sheets Table Pattern Tools	Lab Room
<b>LU-4 Add/subtract allowances for</b>	Understand the working of many types of sewing machines and their allowances	Knowledge of sewing machines and their allowances	15	Pattern Sheets Table	Lab Room

<b>production</b>	Able to add allowances	Ability to make patterns by adding or subtracting allowances		Measuring Tape	
<b>LU-5 Match grade points with lines/curves</b>	Understand the mark points from where the grading is to be done to make shapes (curves/straight lines etc.)  Able to get skilled in matching points	Knowledge of marking techniques of grading points  Ability to match all graded points	5	Pattern Sheets Table Measuring Tape	Lab Room
<b>LU-6 Trace-off all new patterns individually</b>	Understand the way to trace off pattern individually from grading  Able to use pencils on marked points	Knowledge of tracing techniques  Ability to trace off all patterns separately	10	Pattern Sheets Table Measuring Tape	Lab Room
<b>LU-7 Make the final patterns from grading</b>	Understand making of final pattern  Able to construct the final pattern after grading	Knowledge of how to make final pattern  Ability to draw final pattern	15	Pattern Sheets Table Measuring Tape	Lab Room
<b>LU-8 Review shapes and specs of all patterns</b>	Understand shapes and tools for giving shapes at different points  Able to make final shapes (curves etc.)	Knowledge of many styles of shapes used in tops and bottoms  Ability to make final shapes (curves etc.)	5	Pattern Sheets Table Measuring Tape	Lab Room
			5		Lab Room

<b>LU-9</b> <b>Making patterns</b> <b>ready for use</b>	<p>An understanding of finalizing the pattern</p> <p>Able to make final patterns for use</p>	<p>Knowledge of making the pattern final</p> <p>Ability to use of skills to know the patterns for production</p>		<p>Pattern Sheets</p> <p>Hangers/Hooks</p> <p>Black Marker</p>	
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**Module 10 Title: Upgrade skills****Objective of the Module:** To get an understanding of Skills enhancement and its importance**Duration: 30 hours****Theory:30 hours****Practical:0 hours**

<b>Learning Unit</b>	<b>Learning Outcome</b>	<b>Learning Elements</b>	<b>Duration (Hours)</b>	<b>Material Required</b>	<b>Learning Place</b>
<b>LU-1 Read magazines/books</b>	An understanding the need of reading books and magazine  Able to search magazines relevant to pattern making or fashion designing	Knowledge of new requirements of the age  Ability to look for books for pattern making	6	White Board Note Book Magazines	Class Room
<b>LU-2 Attend seminars/workshops</b>	Understand the role of training through seminars or workshop  Able to get trained through seminars	Knowledge of new techniques and skills through seminars and workshops  Ability to get knowledge through workshops and seminars	5	White Board Note Book News Papers Multimedia	Class Room
<b>LU-3 Attend exhibitions</b>	Understand the importance of exhibitions  Able to get knowledge from exhibitions	Knowledge of through visiting exhibitions  Ability to be educated via exhibitions	4	Note Book Computer with Internet	Lab



<b>LU-4</b> <b>Attend training courses</b>	<p>Understand the need of skill enhancement through attending different courses</p> <p>Able to frequently attend courses</p>	<p>Knowledge of skills enhancement</p> <p>Ability to enhance skills and knowledge through different courses</p>	<p>5</p>	<p>White Board  Note Book  News paper</p>	<p>Class Room</p>
<b>LU-5</b> <b>Explore internet</b>	<p>Understand the role of internet for pattern making</p> <p>Able to use the internet</p>	<p>Knowledge of internet and new styles and fashion</p> <p>Ability to search webs for new designs</p>	<p>5</p>	<p>White Board  Note Book  Computer with Internet facility</p>	<p>Class Room  Computer Lab</p>
<b>LU-6</b> <b>Meeting with Professionals</b>	<p>An understanding the need of meeting with professionals</p> <p>Able to explore new world of ideas through meeting with Professionals</p>	<p>Knowledge of making the same pattern in different ways</p> <p>Ability to make relations with professionals for new trends</p>	<p>5</p>	<p>White Board  Note Book</p>	<p>Class Room</p>

**Module 11 Title: Pattern Room Management****Objective of the Module:** To get an understanding of pattern room aesthetics**Duration: 30 hours****Theory:20 hours****Practical:10 hours**

<b>Learning Unit</b>	<b>Learning Outcome</b>	<b>Learning Elements</b>	<b>Duration (Hours)</b>	<b>Material Required</b>	<b>Learning Place</b>
<b>LU-1 Maintain harmony of the department</b>	Understanding the need of the neatness and cleanliness  Able to get maintenance work from worker	Knowledge of different ways to make the department neat and clean  Ability to sense true cleanliness of the pattern room	5	White Board Note Book	Class Room Pattern Lab
<b>LU-2 Pattern room planning</b>	Understand the queue (FIFO method )  Able to plan sequence of making patterns as per requirement	Knowledge of techniques to make patterns at need basis  Ability to plan and execute the work ( pattern making )	10	White Board Note Book	Class Room Pattern Lab
<b>LU-3 Manage patterns, tools</b>	Understand the importance of managing the tools an equipment  Able to manage all pattern making tools	Knowledge of managing the pattern room harmony  Ability tokeep pattern making tools in a good conditions during and after use	10	White Board Note Book	Class Room Pattern Lab
<b>LU-4 Record Keeping</b>	Understand the importance of organizing the records of pattern	Knowledge of maintaining records properly	5		Class room

**Module 12 Title: Develop Professionalism****Objective of the Module:** To get an understanding of Professionalism**Duration: 15 hours****Theory:15 hours****Practical:0 hours**

<b>Learning Unit</b>	<b>Learning Outcome</b>	<b>Learning Elements</b>	<b>Duration (Hours)</b>	<b>Material Required</b>	<b>Learning Place</b>
<b>LU-1 Participate in Training</b>	An understanding of training and its importance  Able to recognize the required training necessary for pattern making	Knowledge of training  Ability to get knowledge through training and implement it	3	White Board Note book	Class Room
<b>LU-2 Interact with colleagues</b>	Understand the role of colleagues  Able to make relations with colleagues	Knowledge of interaction with peoples  Ability to make relations	3	White Board Note book	Class Room
<b>LU-3 Consult with experts</b>	Understand the importance of seniors and experts  Able to consult any problem with experts	Knowledge of new techniques  Ability to communicate with professionals	3	White Board Note book	Class Room
<b>LU-4 Participate in</b>	Understand the evaluation process and its importance	Knowledge of evaluation through tests	3	White Board Note book	Class Room

<b>skill test/ competition</b>	Able to be to participate in test	Ability to acquire skilled through skills competition			
<b>LU-5 Interpersonal Skills</b>	Understand the importance of personal grooming	Knowledge of personality development	3		

**Module 13 Title: Time Management**

**Objective of the Module:** To get an understanding of Time management

**Duration:** 15 hours

**Theory:**15 hours

**Practical:**0 hours

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
<b>LU-1 Manage time to complete the assigned work</b>	An understanding of Time management  Able to complete work in a limited time	Knowledge of time management  Ability to make patterns in a given time	3	White Board Note Book	Class Room
<b>LU-2 Manage work load as required by the management</b>	Understand and explore personal skills to manage time and work load  Able to follow assignments in specified time	Knowledge of people management  Ability to make patterns as per desired by merchandisers or designer	3	White Board Note Book	Class Room
<b>LU-3 Prioritize tasks</b>	Understand the importance of customers need to prioritize tasks  Able to make plans	Knowledge of LIFO & FIFO methods depending upon urgency of the order  Ability to priorities assignments	3	White Board Note Book	Class Room
<b>LU-4 Meet the specified deadlines</b>	Understand customers deadlines keeping in view their demands with respect to season or urgency of the end user	Knowledge of deadlines  Ability to meet deadlines	3	White Board Note Book	Class Room

	Able to work in short time				
<b>LU-5 Handle the co-workers</b>	Understand the man management Able to manage all M's	Knowledge of Five M's Ability to manage work	3	White Board Note Book	Class Room

**Module 14 Title: Use and Knowledge of Sewing Machines / Attachments**

**Objective of the Module:** To get an understanding of Sewing machines and attachments

**Duration: hours**

**Theory: hours**

**Practical: hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
<b>LU-1 Understand basic &amp; Advance sewing process</b>	An understanding of Simple sewing process to complicated needle work  Able to sew some general sewing operations	Knowledge of sewing flows , techniques  Ability to make sewing operations of most garments	10	Sewing Machines Different Types of Garments	Class Room Stitching Lab
<b>LU-2 knowledge of all sewing machines</b>	An understanding of Single needle lock stitch , DNLS, Feedo, O/L machines  Able to use most of the sewing machines	Knowledge of sewing machines  Ability to work with all sewing machines of different with minor or major changes	5+20	Sewing Machines Attachments	Class Room + Lab Room
<b>LU-3 Use of most of the attachments</b>	An understanding of the use of the attachments like folders etc.  Able to sew most garments	Knowledge of attachments  Ability to check correct sewing	40	Sewing Machines Different Attachments Tool Kit	Lab Room

**Module 15 Title: Drafting Pockets, Collars, Waist Belts, Front Openings & Cuffs etc**

**Objective of the Module:** To get an understanding of fashion and styles made by pockets, cuffs etc.

**Duration: 75 hours**

**Theory:15 hours**

**Practical:60 hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
<b>LU-1 Draw Square or Rectangle block</b>	An understanding of Geometry to draw rectangle or circles  Able to make patterns from basic blocks	Knowledge of Mathematics, geometry.  Ability to draw patterns from geometrical shapes	5	Pattern Tools Pattern Sheets Pattern making Table Note Book	Lab Room
<b>LU-2 Mark measurement points &amp; Notches</b>	Understand measurement to be marked for drawing pattern  Able to mark points where the pattern should be drawn	Knowledge of measurement  Ability to construct patterns through points	5	Pattern Tools Pattern Sheets Pattern making Table Note Book	Lab Room
<b>LU-3 Match measurements points by lines or curves</b>	Understand the mark points from where the pattern is to be drafted making shapes (curves/straight lines etc.)  Able to draw patterns with the help of points	Knowledge of different shapes  Ability to construct pattern by matching points to make final shapes	15	Pattern Tools Pattern Sheets Pattern making Table Note Book	Lab Room



<b>LU-4 Review shape and measurement</b>	<p>Understand the revision process for finally draw the pattern</p> <p>Able to make final shapes through experience and education</p>	<p>Knowledge of shapes</p> <p>Ability to recognize shapes</p>	10	<p>Pattern Tools</p> <p>Pattern Sheets</p> <p>Pattern making Table</p> <p>Note Book</p>	Lab Room
<b>LU-5 Cut the final lines</b>	<p>Understand the final lines and cut it</p> <p>Able to give shape as per design requirement and cut</p>	<p>Knowledge of pattern sheet cutting</p> <p>Ability to cut the pattern sheet exactly on lines</p>	5	<p>Pattern Tools</p> <p>Table</p> <p>scissor</p>	Lab Room
<b>LU-6 Trace off pattern</b>	<p>Understand the tracing procedure</p> <p>Able to trace the pattern on another sheet</p>	<p>Knowledge of tracing</p> <p>Ability to trace the pattern on another sheet with precision and accuracy</p>	10	<p>Pattern Tools</p> <p>Table</p>	Lab Room
<b>LU-7 Add seam allowances</b>	<p>Understand the seam allowances keeping in view sewing machines</p> <p>Able to mark seam allowances of all sewing machines and fabrics</p>	<p>Knowledge of different sewing machines and their functions</p> <p>Ability to add allowances of all types</p>	15	<p>Pattern Tools</p> <p>Table</p>	Lab Room
<b>LU-8</b>	Understand the	Knowledge of all aspects required by the customers	5		

<b>Final review the pattern</b>	customer's requirement in pattern  Able to give final touch to the pattern	Ability to review the pattern to make it final by giving it final touch		Pattern Tools Table Measuring Tape	Lab Room
<b>LU-9 Cut the pattern for use</b>	Understand the final pattern and cut  Able to cut pattern for use	Knowledge of cutting the pattern sheet  Ability to finally review the pattern and cut it for production or as sample use	5	Pattern Tools Scissor Hanger for hanging pattern	Lab Room

**Module 16 Title: Maintain Equipment****Objective of the Module:** To get an understanding of tools and equipment's maintenance**Duration: 25 hours****Theory:15 hours****Practical:10hours**

<b>Learning Unit</b>	<b>Learning Outcome</b>	<b>Learning Elements</b>	<b>Duration (Hours)</b>	<b>Material Required</b>	<b>Learning Place</b>
<b>LU-1 Verifying tools &amp; Equipment quality on daily basis</b>	Understand the tools quality  Able to verify tools quality of differ types of materials	Knowledge of Tools quality  Ability to verify and recognize tools for pattern making	10	White Board Pattern Tools Table	Lab or Class Room
<b>LU-2 Replace measuring tape</b>	Understand the material of measurement tape and its replacement time  Able to tell the replacement time of Measuring tapes	Knowledge of measurement tape and its usage  Ability to replace measurement tape	5	White Board Measuring tape	Class Room
<b>LU-3 Replace set square, French curve after dimming the printing on scale/edge on it</b>	Understand the tools quality and their replacement if not fulfilling test  Able to recognize tools quality that when it is to be replaced	Knowledge of many parts of pattern making and their quality  Ability to read tools quality and to replace it	5	White Board Pattern Making Tools	Class Room

<p><b>LU-4</b> <b>Sharpen scissors</b></p>	<p>Understand the replacement or maintenance of pattern making tools especially scissor</p> <p>Able to tell the time of scissor sharpening time</p>	<p>Knowledge of replacement of tools that when it is to be replaced or sharpened</p> <p>Ability to use the scissor properly and get it sharpened when it is required</p>	<p>5</p>	<p>White Board Scissor</p>	<p>Class Room</p>
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# Course Name Curriculum Assessment

**Module 1 Title :** Review of Assignment

**Objective of the Module:** To get an understanding of Pattern Master's Job

**Duration:** 2.50 hours

**Theory:** 1.25 hours

**Practical:** 1.25 hours

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
<b>LU-1 Introduction to Garment Industry &amp; Role of Pattern Maker</b> <b>LU-4 Review sample system</b>	1.25	1.25	Trainee will: <ul style="list-style-type: none"> <li>• Be able to familiarize the Apparel Industry</li> <li>• Explain the role of pattern master in the industry</li> <li>• Demonstrate the sampling system</li> </ul>	<ul style="list-style-type: none"> <li>• Oral</li> <li>• Practical/ Demonstration</li> <li>• MCQs</li> <li>Written test</li> </ul>	At the end of module
<b>LU-2 : Review Tech Pack</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain the technical sheet or Order sheet</li> </ul>		
<b>LU-3 Review size chart</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain the size charts</li> </ul>		
<b>LU-4 Review sample system</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain the sample provided by the customer</li> </ul>		

<b>LU-5 Review Instructions by Merchandiser / Customer</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain the merchandizing process</li> <li>• Demonstrate instructions by customer or buyer</li> </ul>		
<b>LU-6 Review of terminology</b>			Trainee will: <ul style="list-style-type: none"> <li>• Be able to understand different terms used in market and Industry</li> </ul>		

**Module 2 Title: Communicate**

**Objective of the Module:** To get an understanding of Communication between Pattern Maker and relevant persons (Customer/Merchandiser)

**Duration: 2.50 hours**

**Theory: 1.25 hours**

**Practical: 1.25 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
<b>LU-1 Communicate with merchant</b>	1.25	1.25	Trainee will: Trainee will: <ul style="list-style-type: none"> <li>• Explain the communication and process of communication</li> <li>• Demonstrate instructions by customer or buyer</li> </ul>	<ul style="list-style-type: none"> <li>• Oral</li> <li>• Practical/ Demonstration</li> <li>• MCQs</li> <li>• Written test</li> </ul>	At the end of module
<b>LU-2 Communicate with designer</b>			Trainee will: <ul style="list-style-type: none"> <li>• Be able to explain how and what to communicate with designer of the product</li> </ul>		
<b>LU-3 Communicate with team</b>			Trainee will: <ul style="list-style-type: none"> <li>• Demonstrate the interaction with colleagues</li> </ul>		
<b>LU-4 Communicate with other departments</b>			Trainee will: <ul style="list-style-type: none"> <li>• Demonstrate communication with relevant departments</li> </ul>		
<b>LU-5 Communicate with customer</b>			Trainee will: <ul style="list-style-type: none"> <li>• Demonstrate communication with relevant customer</li> </ul>		

**Module 3 Title: Work in a Team**

**Objective of the Module:** To get knowledge & an understanding of working in a Team

**Duration: 2.50 hours**

**Theory: 1.25 hours**

**Practical: 1.25 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
<b>LU-1 Be responsible</b>	1.25	1.25	Trainee will: <ul style="list-style-type: none"> <li>• Explain the importance of being honest</li> </ul>	<ul style="list-style-type: none"> <li>• Oral</li> <li>• Practical/ Demonstration</li> <li>• MCQs</li> <li>• Written test</li> </ul>	At the end of module
<b>LU-2 Respect other team members</b>			Trainee will: <ul style="list-style-type: none"> <li>• Demonstrate to respect peoples</li> </ul>		
<b>LU-3 Solve problems</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain the problem solving skills</li> </ul>		
<b>LU-4 Follow other team members</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain the obeying seniors</li> </ul>		
<b>LU-5 Cooperate with other members</b>			Trainee will: <ul style="list-style-type: none"> <li>• Demonstrate cooperation</li> </ul>		



**Module 4 Title: Take Body & Garment Measurements****Objective of the Module:** To get an understanding of Body and Garment measurement**Duration: 2.50 hours****Theory: 0.50 hours****Practical: 2 hours**

<b>Learning Unit</b>	<b>Theory Days/hours</b>	<b>Workplace Days/hours</b>	<b>Recommended Formative Assessment</b>	<b>Recommended Methodology</b>	<b>Scheduled Dates</b>
<b>LU-1 Take Body measurement</b>	0.5	2.0	Trainee will: <ul style="list-style-type: none"><li>• Explain body measurement</li><li>• Demonstrate body measurements</li></ul>	<ul style="list-style-type: none"><li>• Oral</li><li>• Practical/ Demonstration</li><li>• MCQs</li><li>Written test</li></ul>	At the end of module
<b>LU-2 Prepare measurement chart</b>			Trainee will: <ul style="list-style-type: none"><li>• Explain writing of measurements taken</li><li>• Demonstrate writing measurements</li></ul>		
<b>LU-3 Take Garment measurement</b>			Trainee will: <ul style="list-style-type: none"><li>• Explain garments measurements procedure</li><li>• Demonstrate garments measurements</li></ul>		

**Module 5 Title: Create Pattern- Basic Block**

**Objective of the Module:** To get an understanding, Knowledge & skilled in Creating Basic Blocks

**Duration: 2.50 hours**

**Theory: 0.30 hours**

**Practical: 2.0 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
<b>LU-1 Arrange tools / Equipment required</b>	0.30	2.0	Trainee will: <ul style="list-style-type: none"> <li>• Demonstrate tools arrangement</li> </ul>		At the end of module
<b>LU-2 Review Fabric behavior</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain the fabric types</li> <li>• Demonstrate fabric behaviors</li> </ul>		
<b>LU-3 Draft rectangle using maximum length &amp; width)</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain the drafting lines , squares and rectangles with accuracy</li> <li>• Demonstrate trigonometry</li> </ul>	<ul style="list-style-type: none"> <li>• Oral</li> <li>• Practical/ Demonstration</li> <li>• MCQs</li> <li>• Written test</li> </ul>	
<b>LU-4 Construction of basic block and pattern</b>			Trainee will: <ul style="list-style-type: none"> <li>• Able to differentiate between basic block and patterns</li> </ul>		
<b>LU-5 Draft of final pattern</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain the garments drafting</li> <li>• Demonstrate drafting of a garment</li> </ul>		
<b>LU-6 Mark points of</b>			Trainee will:		

<p><b>measurement on the rectangle</b></p> <p><b>LU-7 Match points by lines and curves as per pattern requirement using tools</b></p> <p><b>LU-8 Review the lines, curves , Seam/ washing / elasticity Allowances</b></p> <p><b>LU-9 Review the shape of the pattern</b></p> <p><b>LU-10 Make final pattern</b></p> <p><b>LU-11 Fabric Cutting</b></p>			<ul style="list-style-type: none"> <li>• Explain the points marking</li> <li>• Demonstrate points marking on pattern sheet</li> </ul> <p>Trainee will:</p> <ul style="list-style-type: none"> <li>• Demonstrate drafting by points</li> </ul> <p>Trainee will:</p> <ul style="list-style-type: none"> <li>• Explain the drafting ( lines, curves etc.)</li> <li>• Demonstrate drafting procedure</li> </ul> <p>Trainee will:</p> <ul style="list-style-type: none"> <li>• Explain the garments shapes</li> <li>• Demonstrate instructions by customer or buyer for shapes and curves</li> </ul> <p>Trainee will:</p> <ul style="list-style-type: none"> <li>• Explain the final draft of the garment</li> <li>• Demonstrate aesthetic aspect of the garment pattern drafting</li> </ul> <p>Trainee will:</p> <p>Be able to cut the patterns on fabric accordingly</p>		
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**Module 6 Title: Trial Garments**

**Objective of the Module:** To get an understanding of Trial Garments

**Duration: 2.50 hours**

**Theory: 0.50 hours**

**Practical: 2.0 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
LU-1 Note down before wash specs	0.5	2.0	Trainee will: <ul style="list-style-type: none"> <li>• Explain measurements of garments</li> <li>• Demonstrate garment measurement</li> </ul>	<ul style="list-style-type: none"> <li>• Oral</li> <li>• Practical/ Demonstration</li> <li>• MCQs</li> <li>Written test</li> </ul>	At the end of module
LU-2 Note down after wash specs			Trainee will: <ul style="list-style-type: none"> <li>• Explain measurements of garments</li> <li>• Demonstrate garment measurement</li> </ul>		
LU-3 Ensure that dummy/ model is accurate			Trainee will: <ul style="list-style-type: none"> <li>• Explain the importance of dummy or model</li> <li>• Demonstrate measurement on model</li> </ul>		
LU-4 Review of required garment shape			Trainee will: <ul style="list-style-type: none"> <li>• Explain the final draft of the garment</li> <li>Demonstrate aesthetic aspect of the garment pattern drafting</li> </ul>		
LU-5 Present the garment			Trainee will: <ul style="list-style-type: none"> <li>• Explain the final draft of the garment</li> <li>Demonstrate aesthetic aspect of the garment pattern drafting</li> </ul>		
LU-6 Finish the garment			Trainee will: <ul style="list-style-type: none"> <li>• Explain the final draft of the garment</li> <li>Demonstrate aesthetic aspect of the garment pattern drafting</li> </ul>		
LU-7 Style the garment			Trainee will: <ul style="list-style-type: none"> <li>• Explain the final draft of the garment</li> <li>Demonstrate aesthetic aspect of the garment pattern drafting</li> </ul>		

**Module 7 Title: Apply Health & Safety**

**Objective of the Module:** To get an understanding of Safety requirement (Tools etc.)

**Duration: 2.50 hours**

**Theory: 0.50 hours**

**Practical: 2.0 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
<b>LU-1 Demonstrate safe handling of tools and equipment</b>	0.50	2.0	Trainee will: <ul style="list-style-type: none"> <li>• Explain the use of tools &amp; equipments</li> <li>Demonstrate pattern making tools &amp; equipments</li> </ul>	<ul style="list-style-type: none"> <li>• Oral</li> <li>• Practical/ Demonstration</li> <li>• MCQs</li> <li>Written test</li> </ul>	At the end of module
<b>LU-2 Use personal protective equipment</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain the use of safety tools</li> <li>Demonstrate use of personal protective equipments</li> </ul>		
<b>LU-3 Demonstrate personal health and safety Practical</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain the importance of personal health and safety</li> <li>Demonstrate health &amp; safety Practicals</li> </ul>		
<b>LU-4 Ensure safe working environment</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain the constructive and healthy environment</li> <li>Demonstrate good n safety work environment in the lab</li> </ul>		
<b>LU-5 Apply health and safety Practical for others</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain the importance of personal health and safety</li> <li>Demonstrate health &amp; safety Practicals</li> </ul>		

**Module 8 Title: Perform Grading- Basic**

**Objective of the Module:** To get an understanding of Grading and Grading systems

**Duration: 2.50 hours**

**Theory: 0.50 hours**

**Practical: 2.0 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
<b>LU-1 View basic design specs sheet</b>	0.5	2.0	Trainee will: <ul style="list-style-type: none"> <li>Explain the specs sheet for pattern making</li> </ul> Demonstrate pattern making design specification sheet/ technical sheet or order sheet	<ul style="list-style-type: none"> <li>Oral</li> <li>Practical/ Demonstration</li> <li>MCQs</li> <li>Written test</li> </ul>	At the end of module
<b>LU-2 Trace off basic pattern Medium Size )</b>			Trainee will: <ul style="list-style-type: none"> <li>Explain tracing of basic draft</li> </ul> Demonstrate medium size pattern as basic pattern		
<b>LU-3 Mark grade points using formula</b>			Trainee will: <ul style="list-style-type: none"> <li>Explain marking of grading points on basic points</li> </ul> Demonstrate marking of grade points on basic draft		
<b>LU-4 Match grade points with lines/curves</b>			Trainee will: <ul style="list-style-type: none"> <li>Explain grading points by matching them</li> </ul> Demonstrate grading points to mark curves or as required for pattern		
<b>LU-5 Trace off all new patterns</b>			Trainee will: <ul style="list-style-type: none"> <li>Explain tracing of new pattern</li> </ul> Demonstrate tracing of new pattern		

<b>individually</b>			marked by grade points		
<b>LU-6 Make the final patterns from grading</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain tracing of final pattern</li> <li>• Demonstrate marking of final pattern after grading</li> </ul>		
<b>LU-7 Review shapes and specs of all patterns</b>			- Trainee will: <ul style="list-style-type: none"> <li>• Explain final shapes</li> <li>• Demonstrate true shapes of the pattern as per garment design requirement</li> </ul>		
<b>LU-8 Making patterns ready for use</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain final pattern</li> <li>• Demonstrate marking of final pattern</li> </ul>		

**Module 9 Title: Perform Grading for Bulk Production**

**Objective of the Module:** To get an understanding of making patterns final through grading

**Duration: 2.50 hours**

**Theory: 0.50 hours**

**Practical: 2.0 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
<b>LU-1 Meeting with Production People</b>	0.5	2.0	Trainee will: <ul style="list-style-type: none"> <li>• Explain importance of interaction with production people</li> <li>• Demonstrate communication with concerned department and peoples</li> </ul>	<ul style="list-style-type: none"> <li>• Oral</li> <li>• Practical/ Demonstration</li> <li>• MCQs</li> <li>• Written test</li> </ul>	At the end of module
<b>LU-2 Trace off basic pattern (Medium Size )</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain tracing of basic draft</li> <li>• Demonstrate medium size pattern as basic pattern</li> </ul>		
<b>LU-3 Mark grade points using formula</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain marking of grading points on basic points</li> <li>• Demonstrate marking of grade points</li> </ul>		
<b>LU-4 Add/subtract allowances for production</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain seam allowances</li> <li>• Demonstrate seam allowances for different sewing machines</li> </ul>		
<b>LU-5 Match grade points with lines/curves</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain grading points by matching them</li> <li>• Demonstrate grading points to mark curves or as required for pattern</li> </ul>		



<b>LU-6 Trace off all new patterns individually</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain tracing of new pattern</li> <li>• Demonstrate tracing of new pattern marked by grade points</li> </ul>	
<b>LU-7 Make the final patterns from grading</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain final shapes</li> <li>• Demonstrate true shapes of the pattern as per garment design requirement</li> </ul>	
<b>LU-8 Review shapes and specs of all patterns</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain final shapes</li> <li>• Demonstrate final shapes</li> </ul>	
<b>LU-9 Making patterns ready for use</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain final pattern</li> <li>• Demonstrate marking of final pattern</li> </ul>	

**Module 10 Title: Upgrade skills**

**Objective of the Module:** To get an understanding of Skills enhancement and its importance

**Duration: 2.50 hours**

**Theory: 1.25 hours**

**Practical: 1.25 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
<b>LU-1 Read magazines/books</b>	1.25	1.25	Trainee will: <ul style="list-style-type: none"> <li>• Explain importance of magazines</li> <li>• Demonstrate reading of new books and magazine</li> </ul>	<ul style="list-style-type: none"> <li>• Oral</li> <li>• Practical/ Demonstration</li> <li>• MCQs</li> <li>• Written test</li> </ul>	At the end of module
<b>LU-2 Attend seminars/workshops</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain importance of seminars</li> <li>• Demonstrate reading of pattern making books and magazines</li> </ul>		
<b>LU-3 Attend exhibitions</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain importance of exhibitions</li> <li>• Demonstrate getting benefits by attending exhibitions</li> <li>•</li> </ul>		
<b>LU-5 Attend training courses</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain importance of training courses for new ideas and techniques</li> <li>• Demonstrate training benefits</li> </ul>		
<b>LU-6 Explore internet</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain use of Internets</li> <li>• Demonstrate use of internet for pattern making</li> </ul>		

<b>LU-7 Meeting with Professionals</b>		<p>Trainee will:</p> <ul style="list-style-type: none"><li>• Explain how to enhance and meeting with professionals</li><li>• Demonstrate interaction with professionals</li></ul>		
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**Module 11 Title: Pattern Room Management**

**Objective of the Module:** To get an understanding of pattern room aesthetics

**Duration: 2.50 hours**

**Theory: 1.25 hours**

**Practical: 1.25 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
<b>LU-1 Maintain harmony of the department</b>	0.78	0.78	Trainee will: <ul style="list-style-type: none"> <li>• Explain need of neatness and cleanliness in the Cutting Lab</li> <li>• Demonstrate cleanliness in pattern lab</li> </ul>	<ul style="list-style-type: none"> <li>• Oral</li> <li>• Practical/ Demonstration</li> <li>• MCQs</li> <li>Written test</li> </ul>	At the end of module
<b>LU-2 Pattern room planning</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain pattern room management</li> <li>• Demonstrate pattern room planning</li> </ul>		
<b>LU-3 Manage patterns, tools</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain pattern making tools</li> <li>• Demonstrate pattern tools management</li> </ul>		
<b>LU-4 Record Keeping</b>			Trainee will: : <ul style="list-style-type: none"> <li>• Able to keep record of the patterns</li> </ul>		

**Module 12 Title: Develop Professionalism**

**Objective of the Module:** To get an understanding of Professionalism

**Duration: 2.50 hours**

**Theory: 1.25 hours**

**Practical: 1.25 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
LU-1 Participate in Training	1.25	1.25	Trainee will: <ul style="list-style-type: none"> <li>• Explain need of training for high skills</li> <li>• Demonstrate training benefits</li> </ul>	<ul style="list-style-type: none"> <li>• Oral</li> <li>• Practical/ Demonstration</li> <li>• MCQs</li> <li>• Written test</li> </ul>	At the end of module
LU-2 Interact with colleagues			Trainee will: <ul style="list-style-type: none"> <li>• Explain importance of contact with colleague</li> <li>• Demonstrate coordination and interaction with colleagues</li> </ul>		
LU-3 Consult with experts			Trainee will: <ul style="list-style-type: none"> <li>• Explain what is consultancy for fashion and pattern making</li> <li>• Demonstrate after effects of contacts with consultants</li> </ul>		
LU-4 Participate in skill test/ competition			Trainee will: <ul style="list-style-type: none"> <li>• Explain tests needs</li> <li>• Demonstrate tests competition</li> </ul>		
LU-5 Interpersonal Skills			Trainee will: <ul style="list-style-type: none"> <li>• Able to understand the importance of personal grooming</li> </ul>		

**Module 13 Title: Time Management**

**Objective of the Module:** To get an understanding of Time management

**Duration: 2.50 hours**

**Theory: 1.25 hours**

**Practical: 1.25 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
<b>LU-1</b> Manage time to complete the assigned work	1.25	1.25	Trainee will: <ul style="list-style-type: none"> <li>• Explain time management</li> <li>• Demonstrate time boundaries</li> </ul>	<ul style="list-style-type: none"> <li>• Oral</li> <li>• Practical/ Demonstration</li> <li>• MCQs</li> <li>Written test</li> </ul>	At the end of module
<b>LU-2</b> Manage work load as required by the management			Trainee will: <ul style="list-style-type: none"> <li>• Explain work load management</li> <li>• Demonstrate work load management</li> </ul>		
<b>LU-3</b> Prioritize tasks			Trainee will: <ul style="list-style-type: none"> <li>• Explain tasks and their sequence</li> <li>• Demonstrate tasks , LIFO, FIFO methods</li> </ul>		
<b>LU-4</b> Meet the specified deadlines			Trainee will: <ul style="list-style-type: none"> <li>• Explain deadlines under pressure</li> <li>• Demonstrate deadlines with minimum cost</li> </ul>		
<b>LU-5</b> Handle the co-workers			Trainee will: <ul style="list-style-type: none"> <li>• Explain management</li> <li>• Demonstrate labor handling</li> </ul>		

**Module 14 Title Use and Knowledge of Sewing Machines / Attachments**

**Objective of the Module:** To get an understanding of Sewing machines and attachments

**Duration: 2.50 hours**

**Theory: 0.50 hours**

**Practical: 2 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
<b>LU-1 Understand basic &amp; Advance sewing process</b>	0.5	2.0	Trainee will: <ul style="list-style-type: none"> <li>• Explain sewing processes basic and advance</li> <li>• Demonstrate sewing process</li> </ul>	<ul style="list-style-type: none"> <li>• Oral</li> <li>• Practical/ Demonstration</li> <li>• MCQs Written test</li> </ul>	At the end of module
<b>LU-2 knowledge of all sewing machines</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain machines knowledge</li> <li>• Demonstrate machines handling</li> </ul>		
<b>LU-3 Use of most of the attachments</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain use of attachments</li> <li>• Demonstrate benefits of attachments</li> </ul>		

**Module 15 Title Drafting Pockets, Collars, Waist Belts, Front Openings & Cuffs etc**

**Objective of the Module:** To get an understanding of fashion and styles made by pockets, cuffs etc

**Duration: 2.50 hours**

**Theory: 0.50 hours**

**Practical: 2 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
<b>LU-1 Draw Square or Rectangle block</b>	0.5	2.0	Trainee will: <ul style="list-style-type: none"> <li>• Explain drafting squares , rectangles</li> <li>• Demonstrate trigonometry and geometry</li> </ul>	<ul style="list-style-type: none"> <li>• Oral</li> <li>• Practical/ Demonstration</li> <li>• MCQs</li> <li>Written test</li> </ul>	At the end of module
<b>LU-2 Mark measurement points &amp; notches</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain measuring points and notches</li> <li>• Demonstrate measurements by lines and curves</li> </ul>		
<b>LU-3 Match measurements points by lines or curves</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain joining of lines</li> <li>• Demonstrate line marking by points marked for pattern drafting</li> </ul>		
<b>LU-4 Review shape and measurement</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain final shapes of garments in drafting</li> <li>• Demonstrate final shapes</li> </ul>		
<b>LU-5 Cut the final lines</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain pattern cutting</li> <li>• Demonstrate final draft and cut it for production or sample</li> </ul>		



<b>LU-6</b> <b>Trace off pattern</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain tracing procedure</li> <li>• Demonstrate tracing</li> </ul>		
<b>LU-7</b> <b>Add seam allowances</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain garments stitching allowances</li> <li>• Demonstrate sewing allowances for</li> </ul>		
<b>LU-8</b> <b>Final review the pattern</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain final pattern</li> <li>• Demonstrate final pattern draft</li> </ul>		
<b>LU-9</b> <b>Cut the pattern for use</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain cutting of pattern for final</li> <li>• Demonstrate final cutting of the draft</li> </ul>		

**Module 16 Title: Maintain Equipment**

**Objective of the Module:** To get an understanding of tools and equipment's maintenance

**Duration:** 2.50 hours

**Theory:** 0.50 hours

**Practical:** 2 hours

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
<b>LU-1 Verifying tools &amp; Equipment quality on daily basis</b>	0.5	2.0	Trainee will: <ul style="list-style-type: none"> <li>• Explain safety use of equipments</li> <li>Demonstrate tools quality on daily basis</li> </ul>	<ul style="list-style-type: none"> <li>• Oral</li> <li>• Practical/ Demonstration</li> <li>• MCQs</li> <li>Written test</li> </ul>	At the end of module
<b>LU-2 Replace measuring tape</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain correct measurements through replacing measuring tapes</li> <li>• Demonstrate measurement correctly with right tools</li> </ul>		
<b>LU-3 Replace set square, French curve after dimming the printing on scale/edge on it</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain replacement of tools</li> <li>• Demonstrate correct tools</li> </ul>		
<b>LU-4 Sharpen scissors</b>			Trainee will: <ul style="list-style-type: none"> <li>• Explain use of sharpened scissors for right cutting</li> <li>Demonstrate good quality tools</li> </ul>		

## List of Machinery/Equipment/Tools

(For a Class of 25 Students)

<b>NAME OF TRADE</b>	<b>Pattern Drafting &amp; Grading</b>
<b>Duration of Course</b>	<b>6 Months</b>

<b>Sr.No.</b>	<b>Nomenclature of Equipment/Tools</b>	<b>Quantity</b>
1	French Curves	25
2	Japanese Ruler	25
3	Paper Cutting Scissor	25
4	Fabric Cutting Scissors	25
5	Table (Cutting Table	4
6	L-Square	5
7	Measuring Tape	25
8	Hip Curve Ruler	25
9	Paper Pins	10 Packs

10	Notcher	25
11	Puncher	1
12	Tracing Wheel	

## List of Consumable Materials

(For a Class of 25 Students)

Sr.No	Name of Material/Items	Quantity/Student	For 25 students
1	Pattern Sheet	25	625
2	Stationery (Pencil, Eraser Sharpener etc.)	1 set	25 sets
3	Fabric	10 Mtrs	250 Mtrs
4	Tracing paper	10 sheets	250
5	Pattern tools ( French Curves, L-Squares )	1 set	25 Sets
6	Boxboard Sheets		

- **Reference Material**
- **Books, Handouts**

## Contributions for Development of This Curriculum

### DACUM Working Group

Mr. Ayub Farooqi Senior Merchandiser WE Apparels	Mohammad Shoukat Pattern Master Musterhaft Pvt. Ltd
Mr. Ghulam Mustafa Anjum Quality Control Manager Sheikh Noor Ud Din Sons	Mr. Imtiaz Ali Pattern Master Rob Gallery
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### Technical Expert

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