

### **National Vocational & Technical Training Commission**

5th Floor, Evacuee Trust Complex Sector F-5/1, Islamabad

Tel: +92 51 904404 Fax: +92 51 904404 Email: info@navttc.org

#### **Author:**

Ms. Ammara Maqbool (Free Lance Consultant)

### Reviewed by:

Dr. Ligaya Dumaonng (International Technical Advisor TVET Reform Support Programme), Mr. Naeem Akhter (Deputy team Leader component 2 TVET Reform Support Program), Ms. Qamar Fatima (Technical Advisor Curricula component 2 TVET Reform Support Program), Mr. Taimoor Tariq (Technical Advisor Competency Standards component 2 TVET Reform Support Program)

### Layout and Design by:

Ms. Maria Arif (Freelance Consultant)

### Date of approval by NCRC:

19th -20th Nov 2014

#### **Date of Notification:**

10th Dec 2014, vide notification no F.2-1/2013-DD(VT)

This curriculum has been produced by the National Vocational & Technical Training Commission (NAVTCC) with the technical assistance of TVET Reform Support Programme, which is funded by the European Union, the Embassay of the Kingdom of the Netherland, Federal Republic of Germany and the Royal Norwegian Embassy. The Programme has been commissioned by the German Federal Ministry for Economic Cooperation and Development and is being implemented by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH.

# 1 Contents

2 Int	roduction	4
2.1	roduction	4
2.2	Competencies gained after completion of course	
2.3	Job opportunities available immediately and in the future	
2.4	Trainee entry level	
2.5	Minimum qualification of trainer	
2.6	Mode of Delivery in a competency-based environment	5
2.7	Medium of instruction	
English	h, Urdu	7
2.8	Qualification Level	
Level I	II Qualification	
2.9	Duration of Qualification	7
2.10		
2.11	Timeframe of assessment (recommendation)	8
3 Ov	verview about the program – Curriculum for Fashion Designer	9
	raw basic fashion sketch	
	erform fabric dyeing	
	raw basic fashion sketch	
LU1- Po	erform fabric dveing	41

#### 2 Introduction

Fashion Design is a field in which one has the knowledge and skills to be able to design and construct a garment. The curriculum in hand is designed keeping in mind the needs and strengths which an individual must learn to become competent to work as a fashion designer. It will enable the trainer to understand and implement the process of design development. It will also cover the practical skills and knowledge needed to make a finished garment including pattern making, stitching and finishing. The course is going to be especially helpful for the people who want to be economically empowered and self-sufficient.

#### 2.1 Overall objective of course

The course is developed on the philosophy of competency-based training which enables a trainee to acquire competencies required to perform his/her job efficiently. Course has the following objectives

- Provide qualified skilled workers to fashion industry.
- Interpret latest and upcoming market trends and design outfits accordingly.
- Draft different garment components and stitch them according to industrial standards enabling an individual to be able to become proficient in knowing technical details of a garment and its construction.
  - Understand the importance of surface design in modern fashion industry and be able to amalgamate them with structural designs.
  - Be able to develop cut lines for the garments and apply surface ornamentation techniques creatively.
  - Develop basic entrepreneur skills for setting up a fashion design business.

#### 2.2 Competencies gained after completion of course

On successful completion of this course the trainee will attain following competencies:

- Create Surface Design
- Perform Fashion illustration and Technical Drawings
- Perform Surface Ornamentation Techniques (fabric dyeing, painting, screen printing, embellishment)
- Make Basic Blocks and Pattern
- Perform Pattern Cutting and Stitching
- Perform Garment Finishing

Design Final Project (Garment)

#### 2.3 Job opportunities available immediately and in the future

After completion of this course trainee can work as:

- NVQF Level 3 in Textile (Fashion designing)
- Fashion Illustrator

#### 2.4 Trainee entry level

- Entry into this course based on this qualification may require skills and knowledge equivalent to matriculation on minimum for trainee from formal education system
- Entry to assessment / training for NVQF 3 Fashion Designer is open for trainee coming from non-formal education system

#### 2.5 Minimum qualification of trainer

- Bachelors in fashion design/ Diploma in fashion design of minimum two years
- Must have the capacity of teaching in a CBT environment
- 2-3 years of relevant industry experience

#### 2.6 Mode of Delivery in a competency-based environment

Training in a competency-based environment differs from the traditional method of training delivery. It is based on defined competency standards, which are industry oriented.

The traditional role of a trainer changes, & shifts towards facilitation of training. A facilitator in Competency Based Training (CBT) encourages and assists trainees to learn for themselves. Trainees are likely to work in groups (pairs) and are engaged in different activities. Few are conducting practical tasks in the workshop, while others are writing, & some are not even in the classroom or workshop but in another part of the building using specialized equipment, working on computers doing research on the Internet or in the library. As trainees learn at different pace, they might well be at different stages in their learning, thus learning must be tailored to suit individual needs.

The following facilitation methods (teaching strategies) are generally employed in CBT programs:

- **Direct Instruction Method:** This might be effective when introducing a new topic to a larger group of trainees in a relative short amount of time. In most cases this method relies on one-way communication, hence there are limited opportunities to get feedback on the trainee's Learn.
- **Discussion Method:** This allows trainees to actively participate in sharing knowledge and ideas. It will help the trainer to determine whether trainees understand the content of the topic. On the other hand, there is a possibility of straying off topic under discussion and some trainees dominating others on their views.
- Small Group Method: Pairing trainees to help and learn from each other often results in quick knowledge/skill transfer, than with the whole class. The physical arrangement of the classroom/workshop and individual assessment may be challenging also, hence using analogy method is recommended.
- **Problem Solving Method:** This is a very popular teaching strategy for Competency Based Training (CBT). Trainees are challenged and are usually highly motivated when they gain new knowledge and skills by solving problems (Contingency skills). Trainees develop critical thinking skills and the ability to adapt to new learning situations (Transfer skills). It might be time consuming and because trainees sometimes work individually, they may not learn all the things that they are expected to learn.
- **Research Method:** This is used for workshops and laboratory tasks, field experiments, and case studies. It encourages trainees to investigate and find answers for themselves and to critically evaluate information. It however requires a lot of time and careful planning of research projects for the trainee.

#### 2.7 Medium of instruction

English, Urdu.

#### 2.8 Qualification Level

Level III Qualification

#### 2.9 Duration of Qualification

One year

#### 2.10 Sequence of the modules

The curriculum consists of seven (7) modules and should be delivered in the following sequence, however the individual learning units within the same module may be delivered interchangeably as stand-alone modules (if need be) or in a holistic approach.

Module 1: Create Surface Design
Module 2: Perform Fashion Illustrations and Technical Drawings

Madala 4. Osasta Osafaa Baala

**Module 3: Perform Surface Ornamentation Techniques** 

**Module 4: Make Basic Blocks and Patterns** 

**Module 5: Perform Pattern Cutting & Garment Stitching** 

**Module 6: Perform Garment Finishing** 

Module 7: Design a final Project(Garment)

### 2.11 Timeframe of assessment (recommendation)

- Assessments should be scheduled during modules and at the completion of modules, depending on the exercises assigned
- Informal critiques which do not entail grading should be conducted frequently so that students can learn from each other's mistakes.

# 3 Overview about the program – Curriculum for Fashion Designer

Module Title and Aim	Learning Units	Theory Hrs.	Workplace Hrs.	Timeframe of modules
Module 1: Create Surface Design	LU1-Conduct research to select a theme LU2- Develop Surface Designs according to elements and principles of design LU3-Perform Surface pattern Repeats	42	172	214
Module 2: Perform Fashion Illustrations and Technical Drawings	LU1-Draw basic fashion sketch LU2-Draw Fashion Illustrations with different garment components	9	146	155
Module 3: Perform Surface Ornamentation Techniques	LU1-Perform fabric dyeing LU2-Perform Fabric Painting LU3-Perform Block Printing LU4-Perform Screen Printing LU5-Apply Basic Embellishment techniques	12	228	240
Module 4: Make Basic Blocks and Patterns	LU1-Take full body measurement LU2-Make basic block LU3-Make basic pattern	24	291	315

Module 5: Perform Pattern Cutting and Stitching	LU1- Select appropriate tools and use machinery properly LU2-Perform fabric cutting as per pattern LU3-Stitch garment as per pattern	16	280	296
Module 6: Perform Finishing	LU1-Verify measurements according to pattern  LU2-Check Stitching quality  LU3-Perform Packaging of finished garment	4	43	47
Module 7: Design a final Project	LU1-Plan the project LU2-Execute the Designs LU3-Evaluate the Design	23	210	233

## 3. Teaching and Learning Guide- Fashion Designer

### 3.1 Module 1: Create Surface design

**Overview of the Module:** This Module provide the trainee the necessary skills and knowledge to be able to create surface design following the process of design development. Trainee will be expected to conduct research to select theme, develop surface designs according to elements and principles of design and perform surface pattern repeats. After completing this module trainee will gain the necessary knowledge to create surface design required for his/her level of training (level III)

**Duration:** 214 hours **Theory:** 42 hours **Practice:** 172 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1- Conduct research to select theme	<ul> <li>Trainee will be able to:         <ul> <li>Perform</li> <li>brainstorming</li> <li>through mind</li> <li>mapping</li> </ul> </li> <li>Carry out research         using different         research sources</li> <li>Conduct theme         research:         <ul> <li>Primary research</li> </ul> </li> <li>Secondary         research         <ul> <li>Create research</li> <li>board on the</li></ul></li></ul>	<ul> <li>Cultural and market trends</li> <li>Modes of research using:         <ul> <li>Primary research (live research, sketches)</li> <li>Secondary research (magazines, internet, photographs)</li> <li>Concept of brainstorming and mind mapping</li> </ul> </li> </ul>	Theory hrs: 8  Practical hrs: 66 hrs  Total: 74 hrs.	Non- Consumables: Internet, computer, multimedia  Consumables: Sketch book, pencil, eraser, magazines, sharpener, colour media, glue.	Drawing studio, computer lab

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
	research board  • Create color board on the basis of selected theme	<ul> <li>Process of brainstorming for the selection of theme (booklets, trend board)</li> <li>Scope of research</li> <li>✓ Historical context</li> <li>✓ Visual sources</li> <li>✓ Other artists'/ designers' work</li> <li>The concept of research board</li> <li>Concept of mood board</li> <li>Concept of colour board</li> </ul>			
LU2- Develop Surface Designs according to elements and principles of design	<ul> <li>Trainee will be able to:         <ul> <li>Create motif design with reference to research following elements and principles of design</li> <li>Develop designs with reference to theme research</li> <li>Apply the color theory</li> </ul> </li> </ul>	<ul> <li>Elements of design i.e. line, shape, form, space, pattern, texture, colour.</li> <li>Principles of design i.e. balance, rhythm, harmony, emphasis.</li> <li>Concept of colour theory i.e. primary colours, secondary</li> </ul>	Theory hrs: 30 hrs.  Practical hrs: 60 hrs  Total: 90 hrs.	Non-Consumables: color palette, paint brushes, water container, scale, compass,  Consumables: Sketch book, poster paints, water colour pencils, pencil eraser, sharpener, note book.	Design studio, class room.

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
		colours, tertiary colours, colour wheel, value, intensity, colour schemes (complementary, split complementary, double complementary, analogous, monochromatic, triad, tetrad)  • Process of design development from motif to surface pattern creation using elements and principles of design  ✓ Design extraction  ✓ Motif creation extracted elements  ✓ Creation of final surface pattern designs  • Rendering of final repeatable surface pattern designs using colour			

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
		theory.			
LU3- Perform Surface pattern Repeats	Trainee will be able to:  Demonstrate different types of surface pattern repeats Render surface repeat using different media	<ul> <li>Different types of surface pattern repeats</li> <li>✓ block repeat</li> <li>✓ mirror repeat</li> <li>✓ diamond repeat</li> <li>✓ drop repeat.</li> <li>Use of media and techniques for rendering the repeat in reference to the finalized repeatable pattern.</li> </ul>	Theory hrs: 4 hrs.  Practical hrs: 46 hrs  Total: 50 hrs.	Non-Consumables: paint brushes, water container, sharpener, scale, colour palette  Consumables: Sketch book, butter paper, poster paints, water color pencils, pencil, eraser.	Design studio, class room

**Module 2: Perform Fashion Illustrations and Technical Drawings** 

**Overview of the Module:** This module will enable the trainee to get the knowledge and skills for drawing fashion illustrations. They will be able to know basic figure types and human body proportion. This information will enable them to draw basic figure and illustrate it with garment. After completing this module trainee will gain the necessary knowledge to Perform fashion illustrations and technical drawings for his/her level of training (level III)

**Duration:** 155 hours **Theory:** 9 hours **Practice:** 146 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1- Draw basic fashion sketch	<ul> <li>Interpret basic figure types</li> <li>Draw body structure according to proportion</li> <li>Draw basic croqui</li> </ul>	<ul> <li>Basic figure types i.e. tall &amp; thin, tall &amp; heavy, short &amp; thin, short &amp; heavy, top heavy, hip heavy, average</li> <li>Basic human body proportions; nine head figure (basic &amp; with musculature)</li> <li>Drawing of different body part i.e. hair styles, hands, feet.</li> <li>Concept of croqui</li> </ul>	Theory hrs: 5 hrs  Practical hrs: 66 hrs  Total: 71 hrs.	Non- Consumables: Sharpener, colour palette, set square.  Consumables: Sketch book, pencil, eraser, poster paints, water pencils	Drawing studio
		in fashion design			
LU2- Draw Fashion Illustrations with different	Trainee will be able to:  • Illustrate different types of garment	Different types of necklines, collars,	Theory hrs:4 hrs.	Non- Consumables: Drawing boards Thumb pins	Drawing studio

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
garment components	components e.g. necklines, collars, sleeves, skirts etc. and their	sleeves, skirts and their variations.	Practical hrs: 80 hrs	Paint Brushes Computer with internet Print media	
	variations.	Technical details of croqui drawing	Total : 84 hrs.	Consumables:	
	<ul> <li>Draw croquis in different poses</li> </ul>	in different poses		Drawing sheets Drawing pencils	
	Illustrate croquis     with different	<ul> <li>Illustration of garment design</li> </ul>		Eraser, poster paints, Water colour	
	garment designs	<ul> <li>material board of design</li> </ul>		pencils	
	<ul> <li>Make technical drawings of designed garments</li> </ul>	technical drawing of the garment			

### **Module 3: Perform Surface Ornamentation Techniques**

**Overview of the Module:** This Module provide the trainee with the necessary skills and knowledge to perform surface ornamentation techniques. Trainee will be expected to perform fabric dyeing, perform fabric painting, perform block printing, perform screen printing and apply basic embellishment techniques. After completing this module trainee will gain the necessary knowledge to Perform Surface Ornamentation Techniques for his/her level of training (level III)

**Duration:** 240 hours **Theory:** 12 hours **Practice:** 228 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1- Perform fabric dyeing	<ul> <li>Trainee will be able to:         <ul> <li>Identify different types of fabrics for dyeing</li> </ul> </li> <li>Prepare dye solution with proper ratio of color</li> <li>Prepare fabric for dying</li> <li>Demonstrate different types of fabric dyeing techniques</li> </ul>	<ul> <li>Research different types of fabrics commonly used for dyeing e.g.</li> <li>✓ Cotton</li> <li>✓ Chiffon</li> <li>✓ Linen</li> <li>✓ Silk</li> <li>Different type of dyes used for fabric dyeing in relevance with fabric dyeing</li> <li>Process of preparing the dye</li> <li>Fabric preparation for dyeing according to the type of fabric</li> </ul>	Theory hrs: 2 hrs  Practical hrs: 50 hrs  Total: 52 hrs.	Non- Consumables: wooden stick, stove, containers, fabric scissor, iron  Consumables: Fabric, fabric dyes, tying thread, salt, phenyl.	Textile studio, class room

		<ul> <li>Techniques of fabric dyeing</li> <li>✓ Plain dyeing</li> <li>✓ Folding</li> <li>✓ Tying</li> <li>✓ Gradient dying</li> <li>✓ Knotting</li> <li>Procedure of dyeing the fabric according to specific technique using:</li> <li>✓ Cold dyes</li> <li>✓ Hot dyes</li> </ul>				
LU2- Perform Fabric Painting	Trainee will be able to:  • Demonstrate different techniques used for fabric painting • Use different types of paints for fabric painting	<ul> <li>Different types of fabrics that can be used for fabric painting.</li> <li>Types of paints and other material used for fabric painting</li> <li>Method of tracing the design on fabric (light table, punching method)</li> <li>Process of fabric painting</li> </ul>	Theory hrs: 2 hrs  Practical hrs: 42 hrs  Total: 44 hrs.	Non- Consumables: brushes, palette, water container, sharpener, common pin/ punching tool, piece of sponge, light  Consumables: Fabric, fabric paints, salt, gutta, tracing paper, pencil, eraser, kerosene oil, chalk/ black polish/ neel	Textile class roor	studio, n

LU3- Perform Block Printing	<ul> <li>Trainee will be able to:         <ul> <li>Prepare the pigment for block printing.</li> <li>Demonstrate block printing technique.</li> </ul> </li> </ul>	<ul> <li>Process of preparing pigment for block printing.</li> <li>Procedure of block printing.</li> <li>✓ Preparing/ treating the fabric (de starching, shrinking,)</li> <li>✓ Stretching the fabric on printing table</li> <li>✓ Printing</li> <li>✓ Color fixing</li> </ul>	Theory hrs: 2 hrs.  Practical hrs: 30 hrs  Total: 32 hrs.	Non- Consumables: Wooden blocks, colour containers, printing table  Consumables: pigments, fabric, jute, common pins, news paper, plastic sheets	Textile studio, class room
LU4- Perform Screen Printing	<ul> <li>Trainee will be able to:         <ul> <li>Select tools and materials for screen printing</li> </ul> </li> <li>Prepare the fabric for screen printing</li> <li>Perform screen printing</li> <li>Fix the color on fabric after printing</li> </ul>	<ul> <li>Tools and equipment used for screen printing</li> <li>Types of dyes and pigments used for screen printing</li> <li>Process of pigment preparation</li> <li>Preparation of fabric</li> <li>Procedure of screen printing</li> <li>Process of color fixing after printing</li> </ul>	Theory hrs: 4 hrs.  Practical hrs: 36 hrs  Total: 40 hrs.	Non- Consumables: Screen, squeegee, iron, screen printing table  Consumables: Screen printing pigment, fabric	Textile studio, class room
LU5- Apply Basic Embellishment	<ul><li>Trainee will be able to:</li><li>Perform basic hand embroidery</li></ul>	Basic hand embroidery stitches	Theory hrs: 2 hrs	Non- Consumables: Embroidery frames,	Textile Studio, Class room

techniques	techniques	e.g.	Practical	embroidery
	• Domonstrate the			needies.
	Demonstrate the use of different materials for embellishment	<ul> <li>✓ running stitch</li> <li>✓ back stitch</li> <li>✓ stem stitch</li> <li>✓ chain stitch</li> <li>✓ French knot</li> <li>✓ cross stitch</li> <li>✓ 3D embroidery</li> <li>Use different types of materials for surface embellishment</li> <li>✓ Thread</li> <li>✓ Tilla</li> <li>✓ Gota</li> <li>✓ Beads</li> </ul>	hrs: 70 hrs hrs Total : 72 hrs.	Consumables: Fabric, embroidery thread, tracing sheets, embellishment materials
		<ul><li>✓ Sequences</li><li>✓ buttons</li></ul>		
		<ul> <li>surfaces used for embellishment</li> </ul>		
		techniques		

#### **Module 4: Make Basic Blocks and Patterns**

**Overview of the Module:** This Module provide the trainee with the necessary skills and knowledge to make basic block and patterns of different garment components. Trainee will learn to take full body measurement. They will also learn to make basic bodice block, sleeve block, trouser block and skirt block and use these blocks to construct patterns of necklines, sleeves, top, trouser and skirt. After completing this module trainee will gain the necessary knowledge to Make Basic Blocks and Patterns for his/her level of training (level III)

**Duration:** 315 hours **Theory:** 24 hours **Practice:** 291 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1- Take full body measurement	Trainee will be able to:  Take full body measurement horizontally and vertically  Make measurement chart according to the measurements taken.	<ul> <li>Full body measurement i.e. shoulder, bust, waist, hip, arm length, neck, calves, thigh.</li> <li>Measurement chart</li> </ul>	Theory hrs: 2 hrs.  Practical hrs: 6 hrs  Total: 8 hrs	Non- consumables Measuring tape, note book, scale.  Consumables Pencil, eraser	Pattern studio
LU2- Construct basic blocks	<ul> <li>Trainee will be able to:</li> <li>Create basic block according to garment type using supplied measurement</li> <li>Trace accurately the basic block on pattern sheet</li> </ul>	Trainee must know and understand:  • Usage of tools and equipment for measurement and drafting  • Drafting and labelling of basic bodice blocks according to	Theory hrs: 10 hrs.  Practical hrs: 65 hrs  Total: 75 hrs	Non- consumables Measuring tape, japenese scale, French curve, set square, tracing wheel, clutch pencil, paper scissors, paper cutter	Pattern studio

Learning Unit	Learning Outcomes	Learning Elen	nents	Duration	Materials Required	Learning Place
Offic	Label all the basic	internat	ional		Consumables	
	information on the	standar			Pattern sheets,	
	block according to	√ Staridar	Waist		pencil/pen, bleach	
	international	✓	Bust		board, clutch	
	standards	✓	Shoulde		pencil leads, paper	
	J. J	r line			cutter blades,	
		✓	Center		tracing paper,	
		front			masking tape, felt	
		✓	Center		tip pen	
		back				
		✓	Size			
		K3. drafting	g and			
		labelling of				
		block accor				
		internationa	al			
		standard:	_			
		<b>√</b>	Grain			
		line	01 11			
		<b>√</b>	Shoulde			
		r line ✓	Diana			
		· ·	Bicep			
		line ✓	Elbour			
		line	Elbow			
		√ Inte	Wrist			
		line	VVIISL			
		✓Front				
		✓ Back				
		<ul> <li>Drafting an</li> </ul>				
		of basic to	rouser			

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
		block according to international standard:  ✓ Waist ✓ Hip line ✓ Knee line ✓ Center front/grain line ✓ Center back/grain line ✓ Waist dart ✓ Ankle line ✓ Crotch line		•	
III2 Crosto	Traingo will be able to:	<ul> <li>✓ Inseam</li> <li>Drafting and labelling of basic skirt block according to international standard:             ✓ Waist             ✓ Hip line             ✓ Knee line             ✓ Center front/grain line             ✓ Center back/grain line             ✓ Waist dart</li> </ul>	Theory	Non	Pattorn studio
<b>LU3-</b> Create patterns using	Trainee will be able to:		Theory: 12hrs	Non- consumables	Pattern studio
basic block	Trace block on	Tracing of the blocks	121113	Measuring tape,	

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
	<ul> <li>Draw pattern         according to garment         design requirements         and specified         measurements</li> <li>Complete final pattern         which include ease,         seams and         allowance for fabric         behaviour including         shrinkage,         consistency,         capacity and         elasticity</li> </ul>	accurately  • Drafting basic top using basic bodice block.  • Concept of ease and seam allowances  • Labelling and cutting details of top pattern  • Drafting and labelling different types of necklines i.e. round (with placket & without placket), V neckline, square neckline, sweetheart neckline  ✓ Grain line ✓ Center back line ✓ Shoulder notch ✓ Placket  • Drafting and labelling different types of sleeves i.e. set-in sleeve, raglan, French cuff ✓ Grain line ✓ Bicep line ✓ Elbow line	Practical: 220 hrs  Total: 232 hrs	japenese scale, French curve, set square, tracing wheel, clutch pencil, paper scissors, paper cutter, cutting mat  Consumables Pattern sheets, pencil/pen, bleach board, clutch pencil leads, paper cutter blades, tracing paper, stationary items, masking tape, felt tip pen	

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
	Learning Outcomes	Virist ✓ Front ✓ Back ✓ Seam allowances • Drafting and labelling of trouser pattern ✓ Waist line ✓ Hip line ✓ Knee line ✓ Center front/grain line ✓ Center back/grain line ✓ Waist dart ✓ Ankle line ✓ Crotch line ✓ Inseam ✓ Seam allowances • Drafting and labelling of skirt pattern (circular, box pleated) ✓ Waist ✓ Hip line ✓ Knee line ✓ Center front/grain	Duration		Learning Place
		✓ Center back/ grain line ✓ Waist dart			

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
		<ul> <li>Drafting and labelling</li> </ul>			
		pattern for kurta			
		<ul> <li>Drafting and labelling</li> </ul>			
		pattern for shalwar			

### **Module 5: Perform Pattern Cutting and Garment Stitching**

Overview of the Module: This Module provide the trainee with the necessary skills and knowledge to perform pattern cutting and garment stitching. They will learn the basic usage of machinery and equipment so that they can carry out the task(s) of stitching smoothly. They will learn the process of stitching necklines, sleeves, top, trouser and skirt. After

completing this module trainee will gain the necessary knowledge to Perform Stitching for his/her level of training (level III)

**Duration:** 296 hours **Theory:** 16 hours **Practice:** 280 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
equipment and machinery properly	<ul> <li>Explain different parts of sewing machine and their uses</li> <li>Explain parts and use over lock machine</li> <li>Use steam iron properly</li> <li>Maintain equipment and machinery in use</li> <li>Practice seams on straight and curved lines</li> </ul>	<ul> <li>Basic parts of sewing machine and their use.</li> <li>Basic parts of over lock machine and its use</li> <li>Method of using steam iron</li> <li>Maintenance of equipment and machinery</li> <li>Exercise of different types of seams e.g. on straight line, curved line, zig zag etc.</li> </ul>	Theory hrs: 10 hrs.  Practical hrs: 30 hrs  Total: 40 hrs	Non- Consumables: Industrial lock stitch machine, over lock machine, steam iron, bobbin, bobbin case.  Consumables: Thread, fabric, note book, pen/ pencil, sewing machine oil	Stitching lab

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU2- Perform fabric cutting as per pattern	<ul> <li>Mark pattern lines and allowances on fabric, placing the pattern over it</li> <li>Cut the fabric according to the marked lines</li> <li>Use the cutting tools safely</li> </ul>	<ul> <li>Usage of tools and equipment for fabric cutting</li> <li>Concept of grain line</li> <li>Process of marking and cutting the pattern on fabric, considering wastage</li> <li>Health and safety rules to use cutting tools safely.</li> </ul>	Theory 3 hrs.  Practical hrs: 40 hrs  Total: 43 hrs	Non- Consumables: fabric cutting scissors, common pins, measuring tape, measuring scale, steam iron, tracing wheel  Consumables: Tailoring chalks, fabric	Stitching lab
LU3- Stitch garment components as per pattern	<ul> <li>Assemble all the cut pieces of fabric as per labelling by over locking them</li> <li>Stitch all assembled pieces following the marked lines</li> <li>Handle tools and equipment safely</li> </ul>	Usage of different tools and equipment for stitching i.e. sewing machine, over lock machine, steam iron     Setting of stitching equipment     Procedure of stitching the necklines (round,	Theory hrs: 3 hrs.  Practical hrs: 210 hrs  Total: 203 hrs	Non- Consumables: Clipper, steam iron, Industrial flat lock machine, over lock machine, bobbin, bobbin case  Consumables: Fabric, sewing thread, tailoring chalk	Stitching lab

Learning	Learning Outcomes	Learning Elements	Duration		Learning Place
Unit				Required	
		V, square,			
		sweetheart)			
		according to the			
		assembled fabric			
		pieces			
		<ul> <li>Procedure of</li> </ul>			
		stitching sleeves			
		according to the			
		assembled fabric			
		pieces			
		<ul> <li>Procedure of</li> </ul>			
		stitching a basic			
		top according to			
		the assembled			
		fabric pieces			
		<ul> <li>Procedure of</li> </ul>			
		stitching a trouser			
		according to the			
		assembled fabric			
		pieces			
		<ul> <li>Procedure of</li> </ul>			
		stitching skirt			
		(circular, box			
		pleated)			
		according to the			
		assembled fabric			
		pieces			
		Procedure of			
		stitching a			
		shalwar			
		according to the			

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
		fabric assembled			
		pieces			
		<ul> <li>Procedure of stitching a kurta according to the fabric assembled pieces</li> <li>Health and safety rules to use tools and equipment safely.</li> </ul>			

# **Module 6: Perform Garment Finishing**

**Overview of the Module**: This Module provide the trainee with the necessary skills and knowledge to perform garment finishing. Trainee will learn the process of verifying the measurement according to pattern, check stitching quality and perform packaging of final product. After completing this module trainee will gain the necessary knowledge to Perform Garment Finishing for his/her level of training (level III)

**Duration**: 47 hours **Theory**: 4 hours **Practice**: 43 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1- Verify measurements according to pattern	<ul> <li>Compare the stitched garment with pattern measurements</li> <li>Make amendments, if required</li> </ul>	<ul> <li>Tools and equipment use for measurement</li> <li>Process of comparing garment measurements with pattern</li> </ul>	Theory hrs:2 hr. Practical hrs: 10 hrs Total: 12 hrs.	Non- Consumables: Measuring tape, industrial lock stitch machine, clipper, seam ripper, fabric scissors, machine needles, bobbin and bobbin case	Stitching studio
	Recheck the garment after amendments, as per pattern	Process of making amendments		Consumables Tailoring chalks, thread, machine oil	
LU2- Check Stitching quality	<ul> <li>Remove unwanted threads from final garment</li> <li>Verify the following areas:         ✓ Stitch count</li> <li>✓ Thread breakage</li> <li>✓ Thread over</li> </ul>	1 .2.663	Theory hrs: 1hr. Practical hrs: 25 hrs Total: hrs. 26	Non Consumables: clipper, ruler, measuring tape  Consumables: Marking chalk, marking stickers, paper tape, marker, percolon oil.	Stitching studio

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
	lapping  ✓ Stains and fabric tempering  ✓ Puckering  ✓ Stitching alignment  ✓ Over locking  ✓ Button attachments  ✓ Label attachments  ✓ Button holes etc.  • Mark the defects according to findings and make corrections	<ul> <li>✓ Stitching alignment</li> <li>✓ Over locking</li> <li>✓ Button         attachments</li> <li>✓ Label attachments</li> <li>✓ Button holes</li> <li>Process of marking defects and making corrections</li> </ul>		required	
LU3- Perform Packaging of finished garment	Use different types of packaging material     Place hang/ price tags on the garment individually      Iron the final garment according to the industrial	<ul> <li>The material used for packaging the garment</li> <li>Types of tags for garments e.g:         ✓ Brand tag         ✓ Size tag         ✓ Care tag         ✓ Fit tag</li> <li>Standard placement of tags on the garment</li> </ul>	Theory hrs: 1hr.  Practical hrs: 8 hrs  Total: hrs. 9	Non- consumables Tag gun, packing table  Consumables Tags, stickers, tape, tag bullets, packing bags, common pins, collar pins, collar strip, butter papers, card sheets, clips,	Stitching Studio

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
	standards  Perform the folding of garment as per style requirement  Perform packaging of final garment as per requirement	Folding and packaging of garment		cartons, masking tape, barcodes	

## **Module 7: Design a Final Project (Garment)**

**Overview of the Module**: This Module provide the trainee with the necessary skills and knowledge to design the final garment. They will be able to plan the whole project, implement and design it. After completing this module trainee will gain the necessary knowledge to Design a Final Project for his/her level of training (level III)

**Duration:** 233 hours **Theory:** 23 hours **Practice:** 210 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
the Design	<ul> <li>Research latest fashion trends</li> <li>Carry out Fashion forecast</li> <li>Carry out research on selected theme</li> <li>Create mood board</li> <li>Write client brief</li> <li>Make basic business plan</li> </ul>	<ul> <li>Latest fashion trends</li> <li>Fashion forecast e.g. colour, fabric, cut line,</li> <li>Mood board</li> <li>Concept of client brief:</li> <li>Design requirements</li> <li>Fabric requirement</li> <li>Sizes requirements</li> <li>Target group</li> <li>Embellishment</li> <li>Basic budgeting</li> <li>Direct cost</li> <li>Indirect cost</li> <li>Employee management</li> <li>Talent management</li> <li>Orientation of new employees</li> <li>Basic marketing Plan</li> <li>Email marketing</li> <li>Social media</li> </ul>	Theory hrs: 20 hrs.  Practical hrs: 60 hrs  Total: 80 hrs.	Non- Consumables: Internet, magazines, scissors  Consumables: Glue, note book, pen	Class room, computer lab, design studio

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
		marketing ✓ Social media ✓ Brochures, leaflets			
LU2- Execute the Designs	<ul> <li>Trainee will be able to:         <ul> <li>Develop garment designs with the reference of research</li> <li>Develop surface designs</li> <li>Make pattern of the designed garment</li> <li>Apply surface ornamentation techniques</li> <li>Cut and stitch the garment</li> </ul> </li> </ul>	<ul> <li>The development of cut lines and silhouettes</li> <li>Development of surface design</li> <li>Pattern making for designed garment</li> <li>Application of ornamentation techniques</li> <li>Cutting and stitching the garment</li> </ul>	Theory hrs: 2 hr.  Practical hrs: 115 hrs  Total: 117 hrs.	Non- Consumables: Paint Brushes, colour palette, Computer with internet, bobbin & bobbin case, industrial flat lock machine, scissors, Japenese scale,  Consumables: Sketch book Drawing pencils Poster paints, water colour pencils, embellishment material, printing material,pettern sheets, threads	Drawing studio, computer lab, design studio
LU3- Evaluate the Design	Trainee be able to:  • Finish the garment according to industrial	<ul> <li>Finishing of the garment</li> <li>✓ Sewing quality</li> <li>✓ checking sizes</li> <li>✓ making</li> </ul>	Theory hrs: 1 hr. Practical	Non- Consumables: Measuring tape, iron, stitching machine,	Stitching studio

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
	standards.  • Present the	corrections ✓ ironing	hrs: 35 hrs	mannequins	
	project in front of specified audience	<ul> <li>Presentation of the project</li> <li>✓ Mannequin Display</li> <li>✓ Ramp walk</li> <li>✓ Rack display</li> <li>✓ Packing</li> </ul>	Total : 36 hrs.	Consumables: Thread	

# 4. Assessment Guidelines

Competency-based assessment is the process of gathering evidence to confirm the candidate's ability to perform according to specified outcomes articulated in the competency standard(s).

## 4.1 Types of assessment

#### a) Sessional assessment

The goal of sessional assessment is to monitor student progress in order to provide constant feedback. This feedback can be used by the trainers to improve their teaching and by learners to improve their learning.

More specifically, sessional assessments Help learners to identify their strengths and weaknesses and Help trainers to recognize where learners are struggling and address problems immediately

#### Examples of sessional assessments include:

- Observations
- Presentations
- Activity sheets
- Project work
- Oral questions

## b) Summative (final) assessment

The goal of summative (final) assessment is to evaluate learning progress at the end of a training programme by comparing it against, e.g. set of competency standards.

### Examples of summative assessments include:

- Direct observation of work activities
- Final project
- Written questions

## 4.2 Principles of assessment

When conducting assessment or developing assessment tools, trainers/assessors need to ensure that the following principles of assessment are met:

## **Validity**

• Indicates if the assessment outcome is supported by evidence. The assessment outcome is valid if the assessment methods and materials reflect the critical aspects of evidence required by the competency standards (Competency units, performance criteria, knowledge and Learn).

## Reliability

• Indicates the level of consistency and accuracy of the assessment outcomes. The assessment is reliable if the assessment outcome will produce the same result for learners with equal competence at different times or places, regardless of the trainer or assessor conducting the assessment.

## **Flexibility**

 Indicates the opportunity for learners to discuss certain aspects of their assessment with their trainer or assessor, such as scheduling the assessment. All learners should be made aware of the purpose of assessment, the assessment criteria, the methods and tools used, and the context and proposed timing of the assessment well in advance. This can be achieved by drawing up a plan for assessment.

#### Fair assessment

Fair assessment does not advantage or disadvantage particular learners because of status, race, beliefs, culture
and/or gender. This also means that assessment methods may need to be adjusted for learners with disabilities or
cultural differences. An assessment should not place unnecessary demands on learners that may prevent them from
demonstrating competence.

## 4.1 Assessment Template

**Module 1- Create Surface Design** 

Learning Units	Theory Days/hour s	Workplace Days/hour s	Recommended form of assessment	Recommended Methodology	Scheduled dates
LU1- Conduct research to select a theme	01	04	<ul> <li>Describe cultural and market trends for the selection of theme</li> <li>Describe the process of brainstorming</li> <li>Conduct brainstorming for the selection of theme</li> <li>Differentiate between primary and secondary research</li> <li>Describe a mood board</li> <li>Describe a colour board</li> <li>Explain the importance of colour board</li> <li>Make a mood board</li> </ul>	short question & answers	
LU2- Develop Surface pattern Designs according to elements and principles of design	02	04	<ul> <li>Explain elements of design</li> <li>Explain principles of design</li> <li>Describe the process of design development</li> <li>Explain color theory</li> <li>Apply elements and principles of design</li> </ul>	Oral test, short question & answers, practical test	
LU3- Perform Surface pattern Repeats		04	<ul> <li>Describe types of surface pattern repeats</li> </ul>	Oral test, practical test	

<ul> <li>Use different media for</li> </ul>	
rendering surface	
pattern designs	

## **Module 2- Perform Fashion Illustrations and Technical Drawings**

Learning Units	Theory	Workplace	Recommended form of	Recommended	Scheduled
	hours	hours	assessment	Methodology	dates
<b>LU1-</b> Draw basic fashion sketch	01	02	<ul> <li>Explain basic figure types</li> <li>Explain basic human body proportions</li> <li>Demonstrate basic fashion sketch</li> </ul>	Oral test, practical test	
LU2- Draw Fashion Illustrations with different garment components		04	<ul> <li>Describe different types of necklines, collars, sleeves, skirts.</li> <li>Demonstrate variations of necklines, collars, sleeves, skirts.</li> <li>Demonstrate drawing of fashion illustration</li> </ul>	Oral test, practical test	

## **Module 3- Perform surface ornamentation Techniques**

Learning Units	Theory	Workplace	Recommended form	of	Recommended	Scheduled
	hours	hours	assessment		Methodology	dates

<b>LU1-</b> Perform fabric dyeing	-	04		Explain different types of fabrics that can be used for dying Describe different types of fabric dyes Describe the method of preparation of fabric for dying	
	-	02		Demonstrate the process of fabric dying  Describe different types	Oral test, short question &
<b>LU2-</b> Perform Fabric Painting			_	of paints used for fabric painting Identify different types of fabrics for fabric painting Explain different types of tracing methods Demonstrate the process of fabric painting	answers, practical test
<b>LU3-</b> Perform Block Printing	-	02	0	Explain the process of block printing  Demonstrate block printing	Oral test, practical test
<b>LU4-</b> Perform Screen Printing	-	02		Describe different tools and equipment used for screen printing Describe different types of dyes and pigments used for screen printing Demonstrate the process of screen	Oral test, short question & answers, practical test

		printing		
LU5- Apply Basic Embellishment techniques	04	<ul> <li>Enlist basic hand embroidery stitches</li> <li>Explain different types of materials used for surface embellishment</li> <li>Describe surfaces used for embellishment techniques</li> <li>Demonstrate different surface embellishment techniques</li> </ul>	Oral test, short question & answers, practical test	

## **Module 4- Make Basic Blocks and Patterns**

Learning Units	Theory hours	Workplace hours	Recommended form of assessment	Recommended Methodology	Scheduled dates
<b>LU1-</b> Take full body measurement	-	1	<ul> <li>Demonstrate full body measurement</li> <li>Prepare the measurement chart</li> </ul>	Oral test, short question & answer, practical test	
LU2-Construct basic blocks	-	6	<ul> <li>Create basic block         according to garment         type using standard         measurement</li> <li>Trace accurately the         basic block on pattern         sheet</li> <li>Label all the basic         information on the block</li> </ul>	Oral test, short question & answer, practical test	

			according to international standards		
LU3- Create patterns using basic block	-	10	<ul> <li>Trace block on pattern sheet</li> <li>Draw pattern according to garment design requirements and specified measurements</li> <li>Complete final pattern which include ease, seams and allowance for fabric behaviour including shrinkage, consistency, capacity and elasticity</li> </ul>	Oral test, short question & answer, practical test	

**Module 5- Perform Pattern Cutting & Garment Stitching** 

Learning Units Theory	Workplace	Recommended form	of	Recommended	Scheduled
-----------------------	-----------	------------------	----	-------------	-----------

	hours	hours	assessment	Methodology	dates
<b>LU1-</b> Use equipment and machinery properly	1	2	<ul> <li>Explain different parts of sewing machine and their uses</li> <li>Explain parts and use over lock machine</li> <li>Use steam iron properly</li> <li>Maintain equipment and machinery in use</li> <li>Practice seams on straight and curved lines</li> </ul>	Oral test, short question & answer, practical test	
LU2- Perform fabric cutting as per pattern	-	4	<ul> <li>Mark pattern lines and allowances on fabric, placing the pattern over it</li> <li>Cut the fabric according to the marked lines</li> <li>Use the cutting tools safely</li> </ul>	Oral test, short question & answer, practical test	
LU3- Stitch garmentcomponents as per pattern	-	20	<ul> <li>Assemble all the cut pieces of fabric as per labelling by over locking them</li> <li>Stitch all assembled pieces following the marked lines</li> <li>Handle tools and equipment safely</li> </ul>	Oral test, short question & answer, practical test	

Module 6- Perform Garment Finishing

Learning Units	Theory hours	Workplace hours	Recommended form of assessment	Recommended Methodology	Scheduled dates
LU1- Verify	-	04	<ul> <li>Demonstrate process of</li> </ul>	Oral test, short question &	

measurements according to pattern			comparing garment answer, practical test measurements with pattern  • Demonstrate process of making amendments
LU2- Check Stitching quality	-	04	<ul> <li>✓ Explain the process of quality check of a garment</li> <li>Oral test, short question &amp; answer, practical test</li> <li>Demonstrate procedure of ironing the garment</li> </ul>
LU3- Perform Packaging of finished garment	-	02	<ul> <li>Describe the materials used for packaging</li> <li>Explain different types of tags used for garments</li> <li>Demonstrate placement of tags on the garment</li> <li>Demonstrate folding and packaging of garment</li> </ul>

## Module 7- Design a Final Project

Learning Units	Theory hours	Workplace hours	Recommended form of assessment	Recommended Methodology	Scheduled dates
<b>LU1-</b> Plan the Design	-	10	Oral test, short question &		
			<ul> <li>Research latest</li> </ul>	answer, practical test	

			fashion trends  Carry out Fashion forecast  Carry out research on selected theme  Create mood board  Create client brief  Make basic business plan  Manage cost  Manage human resources		
LU2- Implement the Designs	-	10	<ul> <li>Develop garment designs with the reference of research</li> <li>Develop surface designs</li> <li>Make pattern of the designed garment</li> <li>Apply surface ornamentation techniques</li> <li>Cut and stitch the garment</li> </ul>	Oral test, short question & answer, practical test	
LU3- Evaluate the Design	-	03	<ul> <li>Finish the garment according to industrial standards.</li> <li>Present the project in front of specified audience</li> </ul>	Oral test, short question & answer, practical test	

#### **Assessment context:**

This unit has to be assessed on the job, off the job, or a combination of on and off the job demonstrated by an individual work.

## **Critical aspects:-**

- Ability to conduct research using primary and secondary source
- Ability to develop surface designs
- Ability to develop garment designs
- Ability to illustrate garment designs on fashion croqui
- Ability to draft patterns
- Ability to stitch a garment
- Ability to use different surface decoration techniques
- · Ability to design a theme based garment and stitch it
- Ability to demonstrate entrepreneur skills

#### **Assessment condition:-**

- Each unit should be assessed separately.
- The candidate will have to access all the related tools, equipment, material and demonstrations required.
- The candidate will be required orally or by other methods of communication to answer questions asked by the assessor.
- Present evidence related to the skills
- Assessors must be satisfied that the candidate can competently and consistently perform all elements of the unit as specified by criteria and that he possesses the required knowledge and skill.

**4. Resources required for assessment:-**It includes all tools, equipment and related material, listed in the curriculum

## List of Tools, Machinery & Equipment

**Total number of students: 20** 

Name of Trade		Fashion Design	
Duration		1 year	
Sr. Name of Item/ Equipment / Tools Qu		Quantity	

No.		
1.	Computer	10
2.	Colour palette	20
3.	Paint brushes	20
4.	Scale	20
5.	Compass	5
6.	Stove	5
7.	Wooden blocks	20
8.	Screen	20
9.	Squeegee	10
10.	Embroidery frames	20
11.	Thumb pins	5 boxes
12.	Measuring tape	5
13.	Pattern sheets	100
14.	Over lock machine	1
15.	Steam iron	2
16.	Fabric cutting scissors	20
17.	Common pins	5 boxes
18.	Tailoring chalk	10
19.	Clipper	20
20.	Seam ripper	20
21.	Machine needles	20
22.	Bobbin & bobbin case	20
23.	Tag gun	1
24.	Packing bags	50
25.	Japenese scale	20
26.	French curve	20
27.	Set square	5
28.	Tracing wheel	20
29.	Industrial lock stitch sewing machine	20
30.	Over lock machine 3 head	1
31.	Drafting table	20

32.	Cutting table	20
33.	Tracing table	
34.	Iron table	
35.	Printing table	
36.	Stain removal gun	1
37.	Multimedia & screen	1
38.	Printer	1
39.	Scanner	1
40.	Pinking scissor	5
41.	Mannequins	20
42.	Hangers	

## List of Consumable Supplies(for a class of 20 students)

Name of Trade		Fashion Design		
Duration		1 year		
Sr. No.	Name of Consumable Supplies		Quantity	
1.	Pencils		20	
2.	Erasers		20	
3.	Sketch books		20	
4.	Printing dyes		5 jars each colour	
5.	Poster paints (red, yellow, blue, black, white)		20 each colour	
6.	Water colour pencils		5 packs	
7.	Carbon paper		20	
8.	Tracing paper		40	
9.	Pattern sheets		100	
10.	Bleach sheet		100	
11.	Embroidery threads		100 different colours	
12.	Embellishment material		Various	
13.	Note books		20	
14.	Sewing Threads		40	
15.	Tailoring chalk		20	
16.	Packing bags		100	



# **National Vocational & Technical Training Commission (NAVTTC)**

5th Floor Evacuee Trust Complex Sector F-5/1, Islamabad.

T +92 51 904404

F +92 51 904404

E info@navttc.org

http://www.navttc.org/