

## NATIONAL VOCATIONAL TRAINING INSTITUTE

**TESTING DIVISION** 

## TRADE TESTING REGULATIONS AND SYLLABUS

**TRADE : GRAPHIC DESIGN** 

LEVEL :CERTIFICATE ONE

## A. INTRODUCTION

i. The review of this syllabus has been generally influenced by the demands of industries due to its continuous change as a result of technological advancement and the changing needs of society.

It was also influenced by the TVET reforms under the directions of the new educational reforms with the view to opening up further education and training opportunities to TVET graduates. The certificate ONE syllabus is designed to respond to the following level descriptors:

QUALIFICATION	KNOWLEDGE LEVEL	SKILLS AND ATTITUDE:
Certificate 1	1. To demonstrate a broad knowledge base incorporating some technical concepts.	1. Require a wide range of technical skills
	<ol> <li>To demonstrate knowledge of the theoretical basis of practical skills.</li> </ol>	2. Are applied in a variety of familiar and complex contexts with minimum supervision.
	3. To demonstrate knowledge in numeracy, literally, IT and Entrepreneurial skills	3. Require collaboration with others in a team

 This syllabus is aimed at providing trainees knowledge for a craft certificate intended to meet the needs of industry and for further course of study at Technical/Vocational Institutes, and Polytechnics and for other trainees who wish to become qualified craftsmen as Graphic Designers and Artists.

## **B. GENERAL OBJECTIVES**

On completion of this course, the trainee should be able to apply and understand:

- i) acquire general knowledge in graphic design
- ii) assist trainees to manipulate tools and materials with the hands and mind to produce artworks.
- iii) assist trainee to use the environment to produce improvised tools and materials for designing artifacts.
- iv) encourage trainees to develop more interest in Graphic Design
- v) assist trainees to practice studio precautions to the best of their knowledge
- vi) assist students to know the main principles of drawing and shading in two and three-dimensional works
- vii) assist trainees to use ICT in designing information for the public
- viii) assist trainees to acquire creative skills and abilities that will lead to self-employment.

## C. THE COURSE COMPONENTS

Trade Theory Trade Science and Calculation Trade Drawing General Paper Trade Practical

EXAMINATION: The candidates would be examined in the FIVE components listed in 'C' above.

Practical work must be carefully planned to illustrate application of the theory and to provide maximum opportunity for workshop practice, laboratory work and demonstration.

## D. KNOWLEDGE AND SKILLS REQUIREMENT

The prime objective of the programme is to provide knowledge and skills of the trade in a manner that will best meet the needs of the trade as well as industries using graphic design tools/equipment and materials.

## E. ENTRY TO THE COURSE

Minimum education : Must have passed JHS or SHS examination. However, the selection of trainees for the course is within the discretion of the Head of the Institution.

## F. ELIGIBILITY FOR ENTRY TO EXAMINATION

Candidates may enter for examination only as internal candidate, that is those who at the time of entry to the examination are undertaking or have already completed the course at an approved establishment.

## G. EXTERNAL EXAMINERS

The practical work of candidates will be assessed by an external examiner appointed by the Testing Commissioner.

## H. EXAMINATION

The components for the examination for Graphic Design are as listed below:

- 1. Trade Theory
- 2. Trade Science and Calculation
- 3. Trade Drawing
- 4. General Paper
- 5. Trade Practical

## I. EXAMINATION RESULTS AND CERTIFICATES

Each candidate will receive record of performance for the components taken. These are:

- i) Distinction
- ii) Credit
- iii) Pass
- iv) Referred/Failure

Certificates would be issued to candidates who would pass all the components.

## NOTE

All Technical and Vocational trainees who aspire to take advantage of the opportunities opened to them in the educational reforms should NOTE that, for a trainee to progress to certificate Two (2) a pass in Certificate One (1) is compulsory.

## J. APPROVAL OF COURSE

Institutions or other establishments intending to prepare trainees for the Examination must apply to:

THE COMMISSIONER TESTING DIVISION NVTI HEAD OFFICE P. O. BOX MB 21, ACCRA

## K. ACKNOWLEDGEMENT

NVTI wishes to acknowledge the team of experts, for preparing the materials which have been incorporated into this syllabus.

Mr. Osman Gibrin Seidu (Dip ED) Ms. Boaduwah Elizabeth (BED H/E) Mr. Benjamin A. Bortey (Dip. Rural Art & Ind)

Government's desire to improve the lot of Technical/Vocational Training, which led to the preparation of this syllabus, is hereby acknowledged.

## **RECOMMENDED TEXT BOOKS**

- 1. The Designers' Companion (For S.H.S. with sample question) by Kwaku Ameyaw-Benneh
- 2. A secret Guide to Graphic Design (For West Africa S.H.S.) by Lewis Omudie
- 3. A New Approach to Visual Arts (for S.H.S./Tertiary Institutions by Joe Adjei
- 4. Concise notes on Graphic Design (for schools & Colleges) By E.O. Hanson & H.K.K. Terry
- 5. Introduction to Graphic Design (Books 1-3) By Biney Kwaku Robert

#### **REQUIRED TOOLS/EQUIPMENT**

- 1. <u>Writing tools</u>:- Pen, pencil, felt pen, maker, calligraphy/broad pen, poster pen, ruling pen etc.
- 2. <u>Drawing tools</u>: Charcoal, crayon, pastel, chalk, compasses, T-square, camera etc.
- 3. <u>Ruling/Measuring</u>: Ruler, set-square, pair of dividers, protractor. Etc.
- 4. <u>Printing tools</u>: Brush, spray diffuser, palette, palette knife, squeegee, printing brayer or roller, developing tools etc.
- 5. <u>Cutting tools</u>: Knife, scissors, blade, guillotine, shredder, scalpel, tenon saw etc.
- 6. <u>Punching tools</u>: Needle, bodkin, awl, punch etc.
- 7. <u>Tracing tools</u>:- Light box, tracing paper, carbon paper, stencil, template etc.

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
1.0	INTRODUCTION	1.1.1 Definition	Career opportunities in Graphic	Guide trainee to mention and
	TO GRAPHIC	1.1.2 Identification of Graphic	design and their importance	identify the various careers
	DESIGN	Design products		in Graphic Design.
2.0	TOOLS/EQUIPME	2.1.1. Types of tools and their	Care and maintenance of tools,	Demonstrate the handling
	NT AND	uses . E.g brush, pencil	materials and equipment	of tools and materials and
	MATERIALS	etc.		equipment
		2.1.2. Types of equipments		
		and their uses. Eg.		
		Press, developing		
		device etc.		
		2.1.3. Types of materials and		
		their uses. Eg. Paper,		
2.0	SAFETY AND	wood etc. 3.1.1. Prevention of Accidents	Direct and to all industries	i. Identification of tools
3.0.	HEALTH	3.1.1. Prevention of Accidents	First aid to all injuries	ii. Correct use of tools and
	TEALIT		Personal safety habits	materials
				iii. Brainstorm with trainees
				the safety working techniques
4.0	SANITATION	4.1.1. Personal hygiene	Bathing, washing of clothes,	Discuss personal hygiene
7.0	SHUITHION	4.1.2. Hygiene at the Studio	shaving, pasting of teeth etc.	and sanitation
		T.1.2. Hygiene at the Studio	Internal and external hygiene	and samtation
5.0	DRAWING	5.1.1. Realistic drawing	i. Still life, nature drawing and	Guide trainee to identify
0.0	Didiwind		imaginative drawing	objects and shapes and draw
		5.1.2. Cartoon drawing		osjeete and onapee and draw
			Abstract drawing	Assist trainee to change the
				real forms of objects
6.0	LETTERING	6.1.1. Block lettering	i. Gothic Lettering	i. Assist trainees to construct

	<ul><li>ii. Roman Lettering</li><li>iii. Italic/Cursive</li></ul>	square units and letters.
6.1.2. Calligraphy	<ul> <li>i. Use of 45° method</li> <li>ii. Fine writing</li> <li>iii. Design broad pens</li> </ul>	Demonstrate the use of block pen in fine writing.
6.1.3. Freestyle	Use of shapes in the environment eg. Vegetables/fruits; orange, pepper etc.	Discuss the use of shapes in the environment using real objects

				INSTRUCTIONAL
	TASK	CRITICAL POINTS	SUB-POINTS	TECHNIQUES
7.0	COLOUR	7.1.1. Theory of Colour	<ul> <li>i. Type of colour</li> <li>ii. Physical properties of colour (tone, shade) etc.</li> <li>iii. Pigment, intensity etc.</li> </ul>	<ul> <li>i. Identify primary, secondary and tertiary colours</li> <li>ii. Discuss the terms in colour work.</li> </ul>
8.0	COLOUR WHEEL	Identification of various types of colour wheel	<ul> <li>a) List all the colours in the various colour wheels</li> <li>b) Draw: <ol> <li>Primary colours</li> <li>colour wheel</li> </ol> </li> <li>ii. Secondary colours <ul> <li>colour wheel</li> </ul> </li> <li>iii Tertiary colours <ul> <li>12 colour wheels</li> </ul> </li> </ul>	Demonstrate and assist trainee to draw the various colour wheels
9.0	PSYCHOLOGICAL AND EMOTIONAL VALUE OF COLOUR	Effects of colours in human endeavours in the society	<ul> <li>i. Aesthetic value of colours</li> <li>ii. Social value of colours</li> <li>iii. Religious value of colours</li> <li>iv. Communication value of colour etc.</li> <li>v. Design artifacts: Poster, flags, packages etc.</li> </ul>	Demonstrate the use of colours. (Trainees should use colours to design artifacts)
10.0	DESIGN	<ul> <li>10.1.1. Definition of design</li> <li>10.1.2. Elements of design <ul> <li>E.g. Dot, line, shape,</li> <li>space</li> </ul> </li> <li>10.1.3. Principles of design <ul> <li>Examples; variety</li> <li>harmony, balance</li> </ul> </li> </ul>	<ul> <li>i. The individual element.</li> <li>ii. Natural elements and man-made element</li> <li>i. Principles of design:- variety, harmony, balance proportion, dominance, rhythm, unity opposition, contrast and</li> </ul>	Identify natural and man-made element and design different patterns Using man-made element of design create attractive patterns according to the principles of design

		proportion etc.	repetitions	
11.0	ILLUSTRATION	11.1.1 Definition of Illustration	i. The benefits of	Using various methods;
			illustration in communication	design illustrations for labels, posters, calendars etc.
		ii) Types of illustration	ii. The various methods	
			in illustration work. E.g line,	
			drawing, flat colour, painting	
			pen and ink	

	INSTRUCTIONAL				
	TASK	CRITICAL POINTS	SUB-POINTS	TECHNIQUES	
10.0					
12.0	LAYOUT DESIGN	12.1.1 Definition of layout 12.1.2 Principles of layout	<ol> <li>Types of layout:         <ol> <li>Preliminary</li> <li>Thumbnail</li> <li>Thumbnail</li> <li>Rough layout</li> <li>Finished layout</li> <li>Production layout</li> </ol> </li> <li>Procedure in layout:         <ol> <li><u>Format</u></li> <li>Portrait</li> <li>Radial/oval</li> <li>Landscape</li> </ol> </li> </ol>	Illustrate and create attractive designs	
			3. Importance of layout		
13.0	COMMUNICATION DESIGN	<ul> <li>13.1.1. Definition of communication design</li> <li>13.1.2. Benefits of communication design in the society</li> <li>13.1.3. Define poster</li> </ul>	<ul> <li>i. Types of communication designs</li> <li>Poster; Text/worded poster</li> <li>ii. Pictorial or illustrated poster</li> <li>iii. Text and illustrated poster</li> <li>iv. qualities of poster</li> </ul>	Discussion and Demonstration	
		13.1.4. Describe logo	b) Logo		

	i. Name only	
	ii. Name/Symbol	
	iii. Initial letters	
	iv. Pictorial name	
	v. Associative logo	
	vi. Allusive logo	
	vii. Abstract logo	

				INSTRUCTIONAL
	TASK	CRITICAL POINTS	SUB-POINTS	TECHNIQUES
13.0	COMMUNICATION	13.1.5. Signboard	i. The relationship between a	
	DESIGN CONT.	and Signpost	signboard and a signpost	Discussion and
				Demonstration
		13.1.6. The importance	ii. Characteristics	
		of signboard and	a) Signboard	
		signpost	b) Signpost	
		13.1.7. Banner	iii. Designing processes	
			i) Characteristics	
		13.1.8. Calendar	a) Banner	
			b) Calendar	
		13.1.9. Describe greeting or	c) Greeting card	
		message card		
			ii) Designing processes	
		<u>Note</u> : The importance of		
		banner, calendar and greeting or message card in the society		
14.0	PACKAGING	14.1.1. Definition of packaging	i. Qualities of a good package	Design and produce
14.0	FACKAGING	in art.	ii. Designing processes	packages
		14.1.2. Function of packages	II. Designing processes	packages
		in the society		
15.0	PRINTMAKING	15.1.1. Definition	i) Types of print making	Demonstrate to trainees to
		15.1.2. History of printmaking	a) Direct print	produce various prints
			b) Mono print	
			c) Frottage print	
			d) Relief/block print	
			e) Screen printing:- Lacquering	

	and stenciling)	
	ii) Processes of printmaking	

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
16.0	BOOKCRAFT	16.1.1. Define bookcraft/ Bookbinding	<ul> <li>i) Types of bookcraft/bookbinding methods or techniques</li> <li>a) Wire-stitching (saddle stitching, perfect binding and side-stitching).</li> <li>ii) Identify the various types of books</li> </ul>	Guide trainees to produce samples of books
		16.1.2. History of bookcraft		
17.0	I.C.T IN GRAPHIC DESIGN	17.1.1. Define computer as a Tool	1. Corel draw	Guide trainees to use the Computer to design.
		17.1.2. Identify various icons of the software	<ul> <li>2. Any other software</li> <li>Paint box</li> <li>Photo shop</li> <li>Illustrator</li> <li>Quak-xpres etc</li> </ul>	Guide trainees to seek information on the internet

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUE
1.0	MEASUREMENT	1.1. Measuring tools: Tape, ruler, stick, etc. 1.2. Materials: paper, canvas, fabric (cloth) wooden board, paints, adhesive and gloves	<ul> <li>i. Method of measuring: millimeters, centimeters, meters</li> <li>ii. The metric and imperial systems.</li> <li>iii. Measuring with spoons, containers, pallets etc.</li> </ul>	Demonstration
2.0.	COLOUR	Types of colours: i. primary, secondary, tertiary, etc. ii. Physical properties: Tone, shade, colour intensity	<ul> <li>Methods of mixing colours:</li> <li>i. Poster colour with water, etc.</li> <li>ii. Oil colour with turpentine, etc.</li> <li>iii. Lacquer with thinner ,etc.</li> <li>iv. Printing pate with water or kerosene</li> </ul>	Demonstration and calculation
3.0	LETTERING	Types of lettering: Block gothic, calligraphy, etc.	<ul> <li>Method of construction:</li> <li>i. Gothic – measure horizontal and vertical lines to create the square units then construct the letters</li> <li>ii. Roman – draw two horizontal lines and demarcate spaces between the horizontal lines</li> </ul>	Guide trainees to calculate spaces using the metric system
4.0	DESIGN AND ILLUSTRATION	Types of illustrations : Line drawing, flat colour printing, pen and ink, pen and wash monochrome painting, silhouette and water colour	i. Methods: mixing various colours according to the sizes of illustrations or surfaces of support.	Demonstrate with containers Demonstrate with the GRID

			ii. Scaling – enlargement and reduction of illustration	method of scaling
5.0	LAYOUT	Types of layout: Preliminary finished and production layout.	Methods: measure and draw out- a) the portrait format b) radial or oval format c) landscape format	Guide trainees to sketch out all the formats

#### **CERTIFICATE ONE – TRADE SCIENCE AND CALCULATIONS**

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
6.0.	PACKAGING	Types: a) Label b) Container c) Book jacket d) wrapper	<ul> <li>Methods:</li> <li>a) Label – mix colour, measure the surface and paste</li> <li>b) Container – measure and cut and fold</li> <li>c) Book jacket – measure, cut and fold</li> <li>d) Wrapper – measure and cut</li> </ul>	Guide trainees to mix, measure and cut
7.0	PRINTMAKING AND BOOKCRAFT	<ul><li>i. Types: monoprint, relief or block print, screen printing, etc.</li><li>ii. Wire stitching, perfect binding, mechanical binding, etc.</li></ul>	<ul> <li>Methods:</li> <li>mix chemicals or ink</li> <li>apply on paper or cloth.</li> <li>measure and cut.</li> <li>mix colours to decorate covers</li> </ul>	Demonstrate and discuss

## **CERTIFICATE ONE - TRADE DRAWING**

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
1.0.	TOOLS AND MATERIALS	<ul> <li>i. Tools: e.g. pencil, pen, crayon, charcoal, marker, brush</li> <li>ii. Materials: paper, poster colour ink, spray, solvents, lacquer, egg albumen, etc.</li> </ul>	• Sketch, draw and label parts	Guide trainees to sketch and label
2.0.	DRAWING	Types: a. Realistic drawing e.g. still life b. Cartooning c. Outdoor sketching d. Shading: e.g. mass shading, cross hatching and pointillism, etc.	<ul> <li>i. Composition: e.g. vegetables, fruits, utensils, etc.</li> <li>ii. Draw and make pictures of abstract shapes</li> <li>iii. Observe and sketch in the natural environment</li> </ul>	Guide and assist trainees to draw
3.0.	LETTERING	Types of lettering: Gothic, Roman, Italics, Calligraphy and Freestyle	<ul> <li>a. Gothic roman and italics: to construct letters</li> <li>b. Calligraphy – use broad pens to draw letters at angle of 45°</li> <li>c. Freestyle – use shapes in the environment to draw letters</li> </ul>	Guide and assist trainees to write
4.0.	ILLUSTRATION	Types: Line drawing, silhouettes, pens and ink, pen and wash, water colour.	<ul> <li>Method:</li> <li>i. Draw the outline of objects</li> <li>ii. Silhouettes – draw and paint the inner parts of objects against different backgrounds</li> <li>iii. Water colour – draw objects and use water colour to create tones</li> </ul>	Guide trainees to draw and paint
5.0.	COMMUNICATION DESIGN	Types: a. Illustrated poster b. Text and illustrated poster	<ul> <li>i. Methods (for (a) and (b) under</li> <li>Critical Point.</li> <li>Draw pictures and paint</li> </ul>	Guide trainees to prepare and paint

c. Banner	ii. Method for Banner:
d. Signboard	• Sketch, illustrate on fabric
	and paint
	iii. Method for Signboard:
	<ul> <li>Sketch pictures on wooden or</li> </ul>
	metal support and paint.
	NB: All the above (a-c) should go
	with the required texts. However
	with the signboard, the surface
	should be printed.

#### **CERTIFICATE ONE – TRADE PRACTICALS**

	TASK	CRITICAL SKILLS	SUB-SKILLS	INSTRUCTIONAL TECHNIQUES
1.0	INTRODUCTION TO GRAPHIC DESIGN	1.1. Graphic design products and their uses	i. The various graphic design products such as banners, handkerchiefs, calendars,	Display and discuss with charts/photographs etc.
		12. Various careers in Graphic Design	<ul><li>badges, emblems, greeting cards and so on</li><li>ii. Studio artist, teacher etc.</li><li>iii. The importance of graphic design in the society</li></ul>	
2.0.	TOOLS AND MATERIALS	<ul><li>2.1. Identify various tools and materials</li><li>2.2 List tools and materials</li></ul>	<ul> <li>i. Observe and have a feel of the tools and materials</li> <li>ii. Draw the various tools</li> <li>iii. Care and maintenance of tools and materials</li> </ul>	Demonstration and discussion
3.0.	HEALTH AND SAFETY AT THE WORKSHOP	<ul><li>3.1. Accidents</li><li>3.2. Precautions</li></ul>	<ul> <li>i. Accidents in the workshop.</li> <li>ii. Remedies to curb accidents</li> <li>iii. First-aid usage. (Fire extinguisher, drugs, water, etc.)</li> </ul>	Demonstration by fire and health personnel
4.0.	SANITATION	<ul><li>4.1. Personal hygiene</li><li>4.2. Cleaning the environment: Workshop/art studio</li></ul>	<ul><li>i. Washing cloths, ironing clothes.</li><li>ii. Weeding, sweeping and dusting of the workshop</li></ul>	Guide trainees
5.0.	DRAWING	5.1. Realistic drawing	i. Still-life-nature drawing and Imaginative drawing	Composition of objects and Drawing
		5.2. Cartoon drawing	iii. Abstract drawing	Re-shape of real or natural forms

## **CERTIFICATE ONE – TRADE PRACTICAL**

	TASK	CRITICAL SKILLS	SUB-SKILLS	INSTRUCTIONAL TECHNIQUES
6.0	LETTERING	<ul> <li>6.1. Block Lettering</li> <li>6.2. Calligraphy</li> <li>6.3. Freestyle</li> <li>6.4. Terms in lettering e.g. <i>MA juscule and minuscule</i></li> </ul>	<ul> <li>Gothic, Roman, Italic/Cursive</li> <li>Fine writing (45° method)</li> <li>Use of shapes in the environment</li> <li>Design broad pens with bamboo or elephant grass</li> </ul>	Demonstrate and guide trainees
7.0.	COLOUR	<ul> <li>7.1. Definition colour</li> <li>7.2. Types of colour</li> <li>7.3. Physical properties – tones, shades, etc.</li> <li>7.4. Pigment intensity of colour</li> <li>7.5. Emotional value of colour</li> </ul>	<ul><li>i. Identify primary, secondary and tertiary colours.</li><li>ii. Identify all the terms in colour works.</li></ul>	Guide trainees
8.0	COLOUR WHEEL	<ul><li>8.1. The various types of colour wheels</li><li>8.1. The colours in the various colour wheels</li></ul>	Draw the following colour wheels – i. Primary colours (3 colour wheel) ii. Secondary colours (6 colour wheel) iii. Tertiary colours (12 colour wheel iv. Paint all the colour wheels	Guide students to paint the colour wheel
9.0	DESIGN	<ul> <li>9.1. The Elements of Design:</li> <li>E.g. dot, line, shape, space</li> <li>9.2. The Principles of Design</li> <li>e.g. variety, harmony</li> <li>balance, proportion etc.</li> </ul>	<ul><li>i. The natural and man-made elements</li><li>ii. Organize the elements of design according to the principles</li></ul>	Guide trainees
10.0	ILLUSTRATION	<ul><li>10.1. Types of illustration</li><li>10.2 The various methods in illustration work. E.g. Line drawing, flat colour</li></ul>	Using various methods, design illustrations for labels, posters, calendars, etc.	Guide trainees to paint the various illustrations

painting, pen and ink, etc.	

#### **CERTIFICATE ONE – TRADE PRACTICAL**

	TASK	CRITICAL SKILLS	SUB-SKILLS	INSTRUCTIONAL TECHNIQUES
		11.1 The Principles of Layout	Layout procedures to arrange test	Guide trainees
		11.2 Types:	and pictures on a surface to	
11.0	LAYOUT	Preliminary/thumbnail, rough,	ensure balance of work	
		finishing and production layout		
		11.3 Procedures – Portrait, oval		
		and landscape formats		
		Design the following art works	i. Draw out the various layouts	Demonstrate and Guide
		i. Poster	ii. Sketch out text and	trainees
12.0	COMMUNICATION	ii. Logo	illustrations	
	DESIGN	iii. Signboard	of the designs	
		iv. Sign post, calendar	iii. Paint out all the characters	
		v. Banner, greeting cards		
		13.1. Materials used for	i. Design and produce simple	Guidance trainees
		packages	packages	
13.0	PACKAGING	13.2 The different kinds of	ii. Processes:	
•		packages	Measuring, cutting, folding,	
			pasting and painting	
		Types of Printmaking:	The processes in printmaking:	Guidance and Demonstration
1.4.0		a) Direct print	i. Preliminary sketches	
14.0	PRINTMAKING	b) Mono print	ii. Finished cloth	
		c) Frottage print	iii. Transfer of design on a surface	
		d) Relief block print	iv. Cutting and painting	
		e) Screen printing	v. Developing with white light	
		(lacquering and stenciling)	vi. Printing of work	
		Type of Bookcraft/Bookbinding	Processes involved:	Guidance and Demonstration
		methods:	i. Measuring	

15.0	BOOKCRAFT	a) Wire stitching	ii. Cutting	
		b) Perfect binding	iii. Folding	
		c) Mechanical binding	iv. Stitching	
			v. Cover design	

## **CERTIFICATE ONE – TRADE PRACTICALS**

	TASK	CRITICAL SKILLS	SUB-SKILLS	INSTRUCTIONAL TECHNIQUES
16.0	INFORMATION COMMUNICATION TECHNOLOGY IN GRAPHIC DESIGN	Manipulate the icons of the software	<ul> <li>i. Creating images with the computer</li> <li>ii. Designing visual communication items</li> <li>iii. Accessing and presenting information</li> <li>iv. Use of the internet for detail information</li> </ul>	Guidance and demonstration

## LEVEL – CERTIFICATE ONE – TEST SPECIFICATION TABLE TRADE THEORY (OBJECTIVE)

		-			
NO	TOPIC	COGNITIVE KNOWLEDGE	AFFECTIVE UNDERSTANDING	PSYCHOMOTOR APPLICATION	TOTAL
1.	Tools and Materials	2	1	2	5
2.	Lettering	2	1	2	5
3.	Design	2	2	1	5
4.	Drawing	2	1	2	5
5.	Layout	1	2	2	5
6.	Printmaking	2	1	2	5
7.	Bookbinding	2	1	2	5
8.	Packaging	1	2	2	5
9.	Communication Design	2	2	1	5
10.	Illustration	2	2	1	5
11.	I.C.T.	2	2	1	5
12.	Safety/Health and	1	1	3	5
	Sanitation				

LEVEL – CERTIFICATE ONE – TEST SPECIFICATION TABLE
TRADE THEORY (SUBJECTIVE)

NO	TOPIC	COGNITIVE KNOWLEDGE	AFFECTIVE UNDERSTANDING	PSYCHOMOTOR APPLICATION	TOTAL
1.	Tools and Materials	1	1	3	5
2.	Lettering	1	1	3	5

3.	Design	2	1	2	5
4.	Drawing	2	1	2	5
5.	Layout	1	1	3	5
6.	Printmaking	1	1	3	5
7.	Bookbinding	2	1	2	5
8.	Packaging	1	1	3	5
9.	Communication Design	1	2	2	5
10.	Illustration	1	2	2	5
11.	I.C.T.	2	1	2	5
12.	Safety/Health and	1	1	3	5
	Sanitation				

## LEVEL – CERTIFICATE ONE – TEST SPECIFICATION TABLE (TRADE DRAWING)

NO	TOPIC	COGNITIVE KNOWLEDGE	AFFECTIVE UNDERSTANDING	PSYCHOMOTOR APPLICATION	TOTAL
1.	Tools and Materials	2	2	1	5
		1	1	3	5
2.	Drawing				
		1	1	3	5
3.	Lettering				
		2	1	2	5
4.	Illustration				
		2	1	2	5
5.	Communication Design				

## LEVEL – CERTIFICATE ONE – TEST SPECIFICATION TABLE TRADE THEORY (SCIENCE AND CALCULATION)

NO	TOPIC	COGNITIVE KNOWLEDGE	AFFECTIVE UNDERSTANDING	PSYCHOMOTOR APPLICATION	TOTAL
1.	Measurement	1	2	2	5

2.	Colour	1	1	3	5
3.	Lettering	2	1	2	5
4.	Design and Illustration	1	1	3	5
5.	Layout	2	1	2	5
6.	Packaging	2	1	2	5
7.	Printing and Bookcraft	2	1	2	5



# NATIONAL VOCATIONAL TRAINING INSTITUTE

**TESTING DIVISION** 

TADE TESTING REGULATIONS AND SYLLABUS

**TRADE: GRAPHIC DESIGN** 

LEVEL: CERTIFICATE TWO

## A. INTRODUCTION

i. The review of this syllabus has been generally influenced by the demands of industries due to its continuous change as a result of technological advancement and the changing needs of society.

It was also influenced by the TVET reforms under the directions of the new educational reforms with the view to opening up further education and training opportunities to TVET graduates. The certificate ONE syllabus is designed to respond to the following level descriptors:

QUALIFICATION	KNOWLEDGE LEVEL	SKILLS AND ATTITUDE:
Certificate II	<ol> <li>To demonstrate broad knowledge base with substantial depth in area(s) of study.</li> </ol>	1. Needs varied skills and competencies in different tasks under various contexts.
	2. To demonstrate a command of analytical interpretation of range of data.	<ol> <li>Require a wide range of technical and supervisory skills.</li> </ol>
	3. To present results of study accurately and reliably.	3. Would be employed in different contexts.

ii. This syllabus is aimed at providing trainees advance knowledge for a craft certificate intended to meet the needs of industry and for further course of study at Technical/Vocational Institutes, and Polytechnics and for other trainees who wish to become qualified craftsmen as Graphic Designers and Artists.

## **B. GENERAL OBJECTIVES**

On completion of this course, the trainee should be able to apply and understand:

- i) and acquire general knowledge in Graphic Design.
- ii) and assist students to manipulate tools and materials with the hands and mind to produce artworks.
- iii) and assist trainees to use the environment to produce improvised tools and materials for designing artifacts.
- iv) and encourage students to develop more interest in Graphic Design.
- v) and assist trainees to practice studio precautions to the best of their knowledge.
- vi) and assist trainees to know the main principles of drawing and shading in two and three-dimensional works.
- vii) and assist trainees to use Information Communication Technology designing information to the public.
- viii) and assist trainees to acquire creative skills and abilities that will lead to self-employment.

## C. THE COURSE COMPONENTS

Trade Theory Trade Science and Calculation Trade Drawing General Paper Trade Practical

EXAMINATION: The candidates would be examined in the FIVE components listed in 'C' above.

Practical work must be carefully planned to illustrate application of the theory and to provide maximum opportunity for shop practice, laboratory work and demonstration.

## D. KNOWLEDGE AND SKILLS REQUIREMENT

The prime objective of the programme is to provide knowledge and skills of the trade in a manner that will best meet the needs of the trade as well as industries using graphic design tools/equipment and materials.

## E. ENTRY TO THE COURSE

Minimum education : Must have passed the Certificate 1 examination. Intermediate certificate holders would also be considered.

## F. ELIGIBILITY FOR ENTRY TO EXAMINATION

Candidates may enter for examination only as internal candidate; that is those who at the time of entry to the examination are undertaking or have already completed the course at an approved establishment.

#### G. EXTERNAL EXAMINERS

The practical work of candidates will be assessed by an external examiner appointed by the Trade Testing Commissioner.

#### H. EXAMINATION

The components for the examination for Graphic Design are as listed below:

- 1. Trade Theory
- 2. Trade Science and Calculation
- 3. Trade Drawing
- 4. General Paper
- 5. Trade Practical

## I. EXAMINATION RESULTS AND CERTIFICATES

Each candidate will receive record of performance given the grade for the components taken. These are:

- v) Distinction
- vi) Credit
- vii) Pass
- viii) Referred/Failure

Certificates would be issued to candidates who would pass all the components.

## J. NOTE

All Technical and Vocational trainees who aspire to take advantage of the opportunities opened to them in the educational reforms should NOTE that, for a trainee to progress to certificate Two (2) a pass in Certificate One (1) is needed compulsory.

## K. ACKNOWLEDGEMENT

NVTI wishes to acknowledge the team of experts, for preparing the materials which have been incorporated into this syllabus.

Mr. Osman Gibrin Seidu (Dip ED) Ms. Boaduwah Elizabeth (BED H/E) Mr. Benjamin A. Bortey (Dip. Rural Art & Ind).

Government's desire to improve the lot of Technical/Vocational Training, which led to the preparation of this syllabus, is hereby acknowledged.

## **RECOMMENDED TEXT BOOKS**

- 1. The Designers' Companion (For S.H.S. with sample question) by Kwaku Ameyaw-Benneh
- 2. A secret Guide to Graphic Design (For West Africa S.H.S.) by Lewis Omudie
- 3. A New Approach to Visual Arts (for S.H.S./Tertiary Institutions by Joe Adjei
- 4. Concise notes on Graphic Design (for schools & Colleges) By E.O. Hanson & H.K.K. Terry
- 5. Introduction to Graphic Design (Books 1-3) By Biney Kwaku Robert

## **REQUIRED TOOLS/EQUIPMENT**

- 1. <u>Writing tools</u>:- Pen, pencil, felt pen, maker, calligraphy/broad pen, poster pen, ruling pen etc.
- 2. <u>Drawing tools</u>: Charcoal, crayon, pastel, chalk, compasses, T-square, camera etc.
- 3. <u>Ruling/Measuring</u>: Ruler, set-square, pair of dividers, protractor. Etc.
- 8. <u>Printing tools</u>: Brush, spray diffuser, palette, palette knife, squeegee, printing brayer or roller, developing tools etc.
- 9. <u>Cutting tools</u>: Knife, scissors, blade, guillotine, shredder, scalpel, tenon saw etc.
- 10. <u>Punching tools</u>: Needle, bodkin, awl, punch etc.
- 11. <u>Tracing tools</u>:- Light box, tracing paper, carbon paper, stencil, template etc.

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
1.0	TOOLS AND MATERIALS	<ol> <li>Tools/Materials:</li> <li>Drawing</li> <li>Painting</li> <li>Printing</li> <li>Cutting</li> <li>Punching</li> <li>Spraying etc.</li> </ol>	Tools: a) Handling of the tools b) Improvisation of tools e.g. brushes, writing pens, spraying gun, squeegee, etc. <u>Materials</u> – Improvisation of material(s) like adhesives, sap, resins, starch, milk brush, etc.	Guide trainees to search the environment to identify tools and materials using real objects.
2.0.	HEALTH AND SAFETY IN	<ul> <li>a) Accidents in the Workshop</li> <li>b) Precautions to take in the workshop</li> <li>c) Avoidance of alcoholic beverages etc.</li> </ul>	<ul> <li>i. Remedies to curb accidents in the workshop</li> <li>ii. First Aid usage (First Aid Box) Fire extinguisher, drugs water, etc.</li> <li>iii. Educate trainees against negative lifestyles etc.</li> </ul>	Demonstration by National Fire Service and Health Personnel
3.0	GRAPHIC DESIGN AND JOB AVENUES	Job avenues: a) Advertising houses b) Printing houses c) Ministries d) Self Employment Entrepreneurs etc.	<ul> <li>Products - (As in a - d)</li> <li>a) Billboards, newspaper adverts</li> <li>b) T-shirts, banners, posters</li> <li>c) Teachers, administrators etc.</li> <li>d) Commercial artist</li> </ul>	Discussion and visit to Graphic Design establishment
4.0.	LETTERING	<ul> <li>Spacing – Types</li> <li>a) Visual or optical spacing</li> <li>b) Mechanical spacing</li> <li>c) Line spacing</li> <li>d) Word spacing</li> <li>e) Letter spacing</li> </ul>	<ul><li>a) Arrangement of letters or words in spaces</li><li>b) Painting out of letters</li><li>c) combination of upper and lower cases</li></ul>	Demonstration and Guidance

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
5.0.	COLOUR	a) Terms : Warm and cool colours, citron, russet, olive monochrome, etc.	a) i. Warm colours: Red, yellow ii. Cool colours: Blue	Guide trainees to practice colour application
		b) Legibility of colours on surfaces	<ul> <li>b) Legibility <ul> <li>i) Black on yellow</li> <li>ii) Blue on white</li> <li>iii) Black on white</li> <li>iv) White on red</li> <li>v) Green on red</li> <li>vi) White on orange etc.</li> </ul> </li> </ul>	
6.0.	DESIGN (PATTERN WORK)	Types: • Controlled marbling • Uncontrolled marbling • Spraying • Repeat pattern • Doodling	Pattern works design as in critical points	Demonstration/methods
7.0.	COMMUNICATION DESIGN	Types: Crests, flags, wall hangings, billboards, pennants and burnings, etc.	Message designs creations	Guide trainees through processes
8.0	PAPER CRAFT	Terms: • Origami or paper • Construction	Method: i) Decorate papers ii) Cutting and folding iii) Shapes of flowers, birds, dolls	Guide Trainees
9.0	SCREEN PRINTING (SERIGRAPHY)	Type: • Photographic Screen Printing	<ul> <li>Method:</li> <li>Preliminary layout</li> <li>Finished layout</li> <li>Transfer of design on fresh sheets</li> <li>Ink the design in black</li> <li>Prepare the screen</li> <li>coat screen</li> </ul>	Guidance and Demonstration

		Cand design and sense to	
	•	Send design and screen to	
		darkroom, etc.	

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
10.0	BOOK BINDING	<ul> <li>Types:</li> <li>i) Edition or multi-section binding</li> <li>ii) Single – section binding</li> <li>iii) Repair of old books</li> <li>iv) Care and maintenance</li> </ul>	Methods: Measuring – cutting – folding – sewing or stitching – gluing – pressing – trimming – covering – give title For (iv) use cupboard to store books, use files etc.	Guidance and Demonstration
11.0	CARTOONING	Types: a) Gag b) Conic strip c) Animation d) Editorial	Sketching, drawing, printmaking, paintings, etc.	Demonstration
12.0	PHOTOGRAPHY	<ul> <li>i. History of Photography</li> <li>ii. Parts of the camera and its uses</li> <li>iii. Still and moving photography</li> </ul>	<ul> <li>i) In the 1500's, the camera obscure was used by the renaissance artists to assist them in their paintings.</li> <li>ii) Lens, view finder, control ring, shutter, rewind lever, film chamber, pressure plate focus ring, etc.</li> </ul>	Discussions and Demonstration
13.0	ENTREPRENEURIAL SKILLS	Types: a) Costing b) Pricing c) Marketing	<ul> <li>a) Direct cost, Overhead cost</li> <li>b) Profit margin</li> <li>c) Strategies (survey, questionnaire, target group)</li> </ul>	Discussion
14.0	EXHIBITION	Types: a) General exhibition b) Specific exhibition	Search for Art works – venue – time/date – mounting – target group (viewers) and buyers	Discussion
15.0	INFORMATION AND COMMUNICATION TECHNOLOGY IN GRAPHIC DESIGN	Computer Coral Draw	<ul> <li>Introduction</li> <li>Paint box</li> <li>Photoshop</li> <li>Illustrator</li> <li>Quak-xpress etc.</li> </ul>	Guidance and Demonstration

## **CERTIFICATE TWO – TRADE SCIENCE AND CALCULATIONS**

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
1.0.	MEASUREMENT	<ul> <li>i. Measuring tools: Pair of dividers, set square, protractor, etc.</li> <li>ii. Materials: Paper, twine, binding cloth, fixative, paint, solvents, etc.</li> </ul>	Measurements: Measuring in millimeters, centimeters, meters, measuring in volumes, quantities and sizes	Demonstrate and guide trainees
2.0.	COLOUR	Types of colours: Tints, shades, complementary, etc. Characteristics: Warm and cool	Mixing: i. Poster colour with water ii. Tints – mixing with white iii. Shades – mixing with black iv. Printing paste – mix with water or kerosene	Demonstrate and guide trainees
3.0	LETTERING	Types: Roman, Gothic, Italic, Calligraphy, Freestyle, etc.	Method: E.g. Gothic – calculate the size of the boxes in centimeters or millimeters.	Guide trainees to do the calculations
4.0.	DESIGN AND ILLUSTRATION	Types of illustrations: i. Line drawing, flat colour painting, silhouette water colour, etc. ii. Realistic Painting	Methods: i. Mixing various colours according to the sizes of illustrations or surfaces of support ii. Scaling – enlargement and reduction of illustration	Guidance/Demonstration
5.0.	LAYOUT	<ul><li>i. Types:</li><li>Preliminary, finished and production layouts.</li><li>ii. Arrangement of elements</li></ul>	Methods: i. Measure and draw out the formats e.g portrait, etc. ii. Measure and construct the text and illustrations on the surfaces to ensure balance of work.	Guide trainees to sketch
6.0.	PACKAGING	Types: a) Label b) Container	Methods: a) Label – mix colours, measure the surface and paste b) Container – measure, cut and	Guide trainees through the processes

	c) Book jacket	fold c) Book jacket – measure cut and fold	
	d) Wrapper	d) Wrapper – measure and cut	

#### **CERTIFICATE TWO – TRADE SCIENCE AND CALCULATIONS**

				INSTRUCTIONAL
	TASK	CRITICAL POINTS	SUB-POINTS	TECHNIQUES
7.0.	PRINTMAKING AND BOOKCRAFT	Types of Prints <u>:</u> i. Mono print relief or block print , screen printing, frottage, etc. ii. Wire stitching, perfect binding, mechanical binding etc.	Methods: i. Mix chemicals or ink and apply on paper or cloth ii. Frottage – rubbing technique iii. Measure and cut, mix colour to decorate covers	Discuss and demonstrate
8.0	PHOTOGRAPHY	Types: 1. Photography (Still) 2. Photography (Moving)	<ul><li>i. Measuring the sizes of pictures taken e.g passport medium, large, etc.</li><li>ii. Developing of negatives in the dark room</li></ul>	Guide and display
9.0.	INFORMATION AND COMMUNICATION TECHNOLOGY	Types: i. Computer software ii. Use of colours in designing	<ul><li>a) Corel draw or print to arrange different colours in their respective shades, tones etc.</li><li>b) Apply dispersion of colour skills to draw</li></ul>	Demonstration and guidance

#### **CERTIFICATE TWO – TRADE DRAWING**

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
1.0.	TOOLS AND MATERIALS	<ul> <li>i. Tools:</li> <li>Felt pens, poster pens, palette compasses, pantograph.</li> <li>T-square, camera etc.</li> <li>ii. List of materials:</li> <li>Paper, poster colour, water colour, binding cloth, oil paint, acrylic, tracing materials etc.</li> </ul>	Sketch, draw, and label tools Apply the materials to support the work to test efficiency of trainees	Guide trainees to sketch, paint and label
2.0	DRAWING	<ul> <li>Types:</li> <li>Realistic drawing (still Life)</li> <li>Cartooning</li> <li>Perspective drawing E.g. linear and colour perspective</li> </ul>	<ul> <li>Composition:</li> <li>a) Objects: E.g. flowers, fruits ,etc.</li> <li>b) Pictures of abstract shapes.</li> <li>c) Observe and sketch outdoors</li> <li>d) i. Linear perspective (optical appearance of objects)</li> <li>ii. Aerial or colour perspective (appearance of colours in distance)</li> </ul>	Guide and assist trainees
3.0.	LETTERING	Types: • Visual or optical spacing • Mechanical spacing • Line spacing • Word	Procedure i. Horizontal lines ii. Upper and lower case letters iii Display out the letters iv. Display work for appreciation	Guide and assist trainees
4.0.	ILLUSTRATION	<ul> <li>Types:</li> <li>Realistic painting</li> <li>Silhouette</li> <li>Flat colour work</li> <li>Pen and wash</li> <li>Outline drawing etc.</li> </ul>	<ul> <li>i. Draw real objects - eg. Trees, human beings, animals, etc.</li> <li>ii. Outline of objects</li> <li>iii. Mix colour in flat form (paint drawn objects)</li> <li>iv. Ink and brush to create tones</li> <li>v. Stroke of line to draw objects</li> </ul>	Guide and assist trainees

## **CERTIFICATE TWO – TRADE DRAWING**

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
5.	0. Communication Design	Types: a) Wall hangings b) Bill boards c) Crests d) Pennants e) Buntings	<ul> <li>Sketch out the various preliminary works</li> <li>Develop sketches to the finished cloth</li> <li>Transfer of design on either wood, plastic or cloth</li> <li>Paint work in colours (text and illustration).</li> </ul>	Guide and assist trainees

#### **CERTIFICATE TWO - PRACTICALS**

	TASK	CRITICAL SKILLS	SUB-SKILLS	INSTRUCTIONAL TECHNIQUES
1.0	TOOLS AND MATERIALS	Identify tools and materials in Graphic Design	<ul><li>a. Types of tools and materials</li><li>b. Draw the various tools</li><li>c. Care and maintenance of tools and materials</li></ul>	Assist trainees, identify tools and materials. Using real objects.
2.0	HEALTH AND SAFETY	<ul> <li>Identify forms of accidents in the workshop</li> <li>Remedies to curb accidents in the workshop</li> </ul>	<ul> <li>Discuss the various accidents in the workshop</li> <li>Precautions to take in the workshop</li> <li>First aid usage (fire extinguisher, drug, etc.)</li> </ul>	Discussion Demonstration by National Fire Service Personnel
3.0.	JOB AVENUES	<ul> <li>i. Advertising houses</li> <li>ii. Printing Houses</li> <li>iii. Ministries.</li> <li>iv. Self Employment</li> <li>(Entrepreneurs in Screen printing &amp; Commercial Art)</li> </ul>	<ul><li>i. Visits to Advertising and Printing Houses</li><li>ii. Invite Resource Persons</li><li>iii. Organize exhibitions</li></ul>	Organize trainees for sub skills activities i-iii.
4.0.	LETTERING	<ul> <li>Spacing:</li> <li>a) Optical/Visual spacing</li> <li>b) Mechanical spacing</li> <li>c) Line spacing</li> <li>d) Letter spacing</li> <li>e) Word spacing</li> </ul>	<ul> <li>i. Ruling of horizontal lines (pair of parallel lines)</li> <li>ii. Adjusting the spaces (optical spacing)</li> <li>iii. Creating equal spaces (mechanical spacing)</li> <li>iv. Creating spaces in-between sentences</li> <li>v. Creating gaps in-between letters vi. Creating gaps in-between words</li> </ul>	Guide Trainees to Practice

	TASK	CRITICAL SKILLS	SUB-SKILLS	INSTRUCTIONAL TECHNIQUES
5.0.	COLOUR	<ul> <li>i. Terms:</li> <li>a) Warm and cool colour</li> <li>b) Monochrome</li> <li>c) Citroen, etc.</li> <li>ii. Legibility</li> </ul>	Solution: i. Warm colours: Red, orange ii. Cool colours: Blue, green and their mixtures ii. Mix colours with different shades and paint surfaces with accompanying texts.	Discuss and guide trainees
6.0.	PATTERN WORK	Types: i. Controlled marbling ii. Uncontrolled marbling ii. Doodling iii. Repeat patterns	Method: i. Example for critical skills i and ii Pour cooked starch - mix oil paint and sprinkle – drop the plain sheets on the sprinkled oil etc. ii. Scribbling iii. Cut shape and repeat patterns	Demonstrate and guide trainees
7.0.	COMMUNICATION DESIGN	Types: Crests, flags, billboards, pennants, buntings, wall hangings, etc.	Prepare layout - sketch, illustration and texts – develop characters – paint out characters, etc.	Guide trainees to develop ideas
8.0.	PAPER CRAFT	Type: Origami	<ul> <li>Construction:</li> <li>Design papers in different colours</li> <li>Draw and cut paper shapes – fold and join parts cut</li> <li>Create shapes of birds, animals, etc.</li> </ul>	Guide trainees to construct
9.0.	SCREEN PRINTING	Types: Photographic screen printing	Preliminary layout, finished layout, transfer into tracing paper – ink the design in black – prepare screen and coat it – to the darkroom, etc.	Demonstration
10.0	BOOK BINDING	Types: i. Editions or Multi-section binding	<ul> <li>i. Measuring – cutting – folding, sewing gluing, etc.</li> <li>ii. Use files, cupboards to store,</li> </ul>	Discuss and demonstrate

ii. Sing	le section binding	avoid heat, water and oil, etc.	
iii. a) C	Care and maintenance	iii. Repair as in i. & ii.	
b) F	Repair of old books		

## **PRACTICALS** – CERTIFICATE TWO

				INSTRUCTIONAL
	TASK	CRITICAL SKILLS	SUB-SKILLS	TECHNIQUES
11.0	CARTOONING	Types:	General layout:	Guide trainees to sketch
		a) Gas	a) Sketch out characters with their	
		b) Comic strip	balloons – write out messages in the	
		c) Animation	balloons	
		d) Editorial	b) Importance of cartoons - for	
!			communication	
12.0	PHOTOGRAPHY	Types:	a) Take shorts with camera	Guide and display
		a) Photography (Still)	b) Visit to photo studios	
		b) Photography (Moving)	c) Display and appreciate pictures	
			taken	
13.0	EXHIBITION	Types:	Assemble art work – venue – time	Organize internal and
		a) General exhibition	and date – target group – mounting	external exhibitions
!		b) Specific exhibition	etc.	
			b) trips to museums etc.	
14.0	INFORMATION AND	The computer (Software)	COREL Draw – Paint box photo-	Demonstrate and guide
ļ	COMMUNICATION		shop, illustrator, Quak-xpress etc.	trainees
	TECHNOLOGY			

## **REQUIRED TOOLS/EQUIPMENT**

- 1. <u>Writing tools</u>:- Pen, pencil, felt pen, maker, calligraphy/broad pen, poster pen, ruling pen etc.
- 2. <u>Drawing tools</u>: Charcoal, crayon, pastel, chalk, compasses, T-square, camera etc.
- 3. <u>Ruling/Measuring</u>: Ruler, set-square, pair of dividers, protractor. Etc.
- 3. <u>Printing tools</u>: Brush, spray diffuser, palette, palette knife, squeegee, printing brayer or roller, developing tools etc.
- 4. <u>Cutting tools</u>: Knife, scissors, blade, guillotine, shredder, scalpel, tenon saw etc.
- 5. <u>Punching tools</u>: Needle, bodkin, awl, punch etc.
- 6. <u>Tracing tools</u>:- Light box, tracing paper, carbon paper, stencil, template etc.

	IRADE INEORI (OBJECTIVE)					
NO	TOPIC	COGNITIVE KNOWLEDGE	AFFECTIVE UNDERSTANDING	PSYCHOMOTOR APPLICATION	TOTAL	
1.	Tools and Materials	2	2	1	5	
2.	Lettering	2	2	1	5	
3.	Design	2	1	2	5	
4.	Drawing	2	2	1	5	
5.	Layout	2	1	2	5	
6.	Printmaking	2	1	2	5	
7.	Bookbinding	2	1	2	5	
8.	Packaging	2	1	2	5	
9.	Communication Design	2	1	2	5	
10.	Illustration	1	2	2	5	
11.	I.C.T.	2	2	1	5	
12.	Safety/Health and Sanitation	1	1	3	5	
13.	Photography	1	1	3	5	
14.	Exhibition	2	2	1	5	
15.	Costing, Pricing and Marketing	1	1	3	5	

## LEVEL – CERTIFICATE TWO – TEST SPECIFICATION TABLE TRADE THEORY (OBJECTIVE)

LEVEL – CERTIFICATE TWO – TEST SPECIFICATION TABLE
TRADE THEORY (SUBJECTIVE)

		COGNITIVE	AFFECTIVE	PSYCHOMOTOR	
NO	TOPIC	<b>KNOWLEDGE</b>	UNDERSTANDING	APPLICATION	TOTAL
1.	Tools and Materials	1	1	3	5
2.	Lettering	1	2	2	5
3.	Design	1	1	3	5
4.	Drawing	1	2	2	5
5.	Layout	1	2	2	5
6.	Printmaking	2	1	2	5
7.	Bookbinding	1	1	3	5
8.	Packaging	1	1	3	5
9.	Communication Design	2	1	2	5
10.	Illustration	1	2	2	5
11.	I.C.T.	2	1	2	5
12.	Safety/Health and Sanitation	1	1	3	5
13.	Photography	1	1	3	5
14.	Exhibition	2	1	3	5
15.	Costing, Pricing and Marketing	1	1	3	5

## LEVEL – CERTIFICATE TWO – TEST SPECIFICATION TABLE (TRADE DRAWING)

NO	TODIO	COGNITIVE	AFFECTIVE	PSYCHOMOTOR	TOTAL
NO	TOPIC	KNOWLEDGE	UNDERSTANDING	APPLICATION	TOTAL
1.	Tools and Materials				
2.	Lettering				
3.	Design				
4.	Drawing				
5.	Layout				
6.	Printmaking				
7.	Bookbinding				
8.	Packaging				
9.	Communication Design				
10.	Illustration				
11.	I.C.T.				
12.	Safety/Health and Sanitation				
13.	Photography				
14.	Exhibition				
15.	Costing, Pricing and Marketing				

## LEVEL – CERTIFICATE TWO – TEST SPECIFICATION TABLE (TRADE SCIENCE AND CALCULATIONS)

NO	TOPIC	COGNITIVE KNOWLEDGE	AFFECTIVE UNDERSTANDING	PSYCHOMOTOR APPLICATION	TOTAL
1.	Measurement	1	1	3	5
2.	Colour	2	1	2	5
3.	Lettering	1	1	3	5
4.	Design and Illustration	1	1	3	5
5.	Layout	2	1	2	5
6.	Packaging	1	1	3	5
7.	Printmaking and Bookcraft	1	1	3	5
8.	Photography	1	2	2	5
9.	I.C.T.	1	1	3	5