

NATIONAL VOCATIONAL TRAINING INSTITUTE TESTING DIVISION

TRADE TESTING REGULATIONS AND SYLLABUS

TRADE: PAINTING AND DECORATING

LEVEL: CERTIFICATE TWO

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 TWO syllabus is designed to respond to the following level descriptors:

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

ii. Knowledge and safe use of various types of brushes, paint rollers, etc. to apply paint and other decorative materials. Mixing of paint according to the desired colours. Uses of various types of scaffold, etc.

B. THE GENERAL OBJECTIVES

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

- i) Understand the sources of paint and other decorative materials and their uses.
- ii) Understand the correct use and handling of painting and decorating tools and equipment.
- iii) Understand the safety precautions to be observed when using the tools and equipments.
- iv) Identify and remedy faults and defects in painting.
- v) Understand the processes involved in preparing various surfaces to receive paint.
- vi) Understand the correct sequence of paint application.
- vii) Understand, read and interpret blue prints.
- viii) Understand the basic principles and uses of portable mechanical hand tools.
- ix) Understand basic workshop and site safety principles and their application.
- x) Understand basic colour theory and terminology.
- xi) Construct and fill-in basic sign work.
- xii) Understand basic principles of spray painting.
- xiii) Understand geometrical drawing, trade drawing, trade science and calculation.

C. THE COURSE COMPONENTS

Trade Theory
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 professional equipments

E. ENTRY TO THE COURSE

Minimum education: Must have passed the Certificate One (I) examination.

F. ELIGIBILITY FOR ENTRY TO EXAMINATION

Candidates may enter for examination only as internal candidates. That is, those who at the time of entry to the examination are undertaking (or have already completed the course at an approved establishment) and has successfully passed the certificate One (1).

G. EXTERNAL EXAMINERS

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

H. EXAMINATION RESULTS AND CERTIFICATES

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

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

Certificates would be issued to candidates who pass in 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.

I. 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

J. ACKNOWLEDGEMENT

NVTI wishes to acknowledge the preparatory material done by the team of experts, which have been incorporated into this syllabus.

Mr. George Allan Mends

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Mr. John Quansah in reviewing the whole materials and making necessary additions and recommendation is also appreciated.

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

K. RECOMMENDED TEXT BOOKS FOR THE TRADE

- 1. Painting and Decorating An Information Manual (4th Edition) By A. Fulcher & Co.
- 2. Dictionary of Painting and Decorating (3rd Edition) By J.H. Goodier
- 3. Basic Building Craft Science By A. Fulcher & Co.
- 4. Painting and Decorating (10th Edition) By A.E. Hurst/J.H. Goodier
- 5. Painter's Craft Science By L.F.J. Tubb

TOOLS AND EQUIPMENT

- 1. Paint brushes (assorted)
- 2. Stippling brushes
- 3. Paint rollers (assorted)
- 4. Roller trays
- 5. Extension poles
- 6. Knives:

Palett knife

Hacking knife

Filling knife

Stripping knife/scraper

Caulking tool

Shave hooks

- 7. Paint stirrer
- 8. Wire brush
- 9. Paint strainer
- 10. Filling board
- 11. Rubbing block
- 12. Hammer
- 13. Nail punch
- 14. Pincers
- 15. Pointing trowel
- 16. Screw driver (set)
- 17. Tape measure
- 18. Plumb bob
- 19. Spirit level
- 20. Scale rule
- 21. Scissors

- 22. Straight edge
- 23. Lining fitches
- 24. Writers/signwriting brushes
- 25. Stapler
- 26. Squeegees
- 27. Electric iron
- 28. Stencil brushes
- 29. Palette or thumb board
- 30. Dippers
- 31. Chalk line

EQUIPMENT

- 1. Blow lamp
- 2. Gas torches
- 3. Buckets
- 4. Paint kettles
- 5. Paint hooks
- 6. Ladders
- 7. Trestles/step ladders
- 8. Spraying gun
- 9. Compressor
- 10. Hoses
- 11. Sanders
- 12. Steam stripper
- 13. Printing table
- 14. Screen printing machine

15. Screen shooting board

SAFETY EQUIPMENT

- 1. Goggles
- 2. Respirator
- 3. Face mask
- 4. Gloves

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
1.0	REASONS FOR	Four main reasons:	Decoration – Hotels etc.	Discuss with trainees
	APPLYING	Decoration	Preservation – Wood metals	the reasons for applying
	SURFACE	Preservation	Sanitation – Hospitals etc.	surface coatings.

	COATING	SanitationIdentification	Identification – Pipoe lines	
2.0	STOPPING AND FILLING MATERIALS	Stoppers and fillers: Stoppers – Hard stopper, linseed oil putty, linseed oil putty, mastic, cellulose stopper etc. Fillers – All purpose filler, polyfilla, brush or spray filler etc.	Stopper: Hard stopper – Wood, linseed oil putty wood Cellulose – Vehicles etc. Filler: All purpose - Wood, metal Polyfilla – Wood, metal , brush filler, metal, etc. Uses Storage	 Demonstration Use samples of filler and stopper
3.0	PREPARATION OF CEMENT- BASED SURFACES	Cement based surface: plaster	 Removal of efflorescence (if any) Denib with stripping knife Reasons for not abrading surface Safety precautions 	Discussion with trainees
4.0	PREPARATION OF METALS	 Ferrous metals: Iron, steel, cast iron Wrought iron, mild steel etc. Non ferrous metals Aluminium, zinc, copper, brass, bronze, lead, tin, etc. 	Methods of preparation: E.g. Abrasive – cleaning, acid pickling, flame cleaning, etc. Use of safety and health equipments Primers for ferrous and non ferrous	Discuss various processes with trainees Discuss types of primers Lecture

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
5.0	SAFETY, HEALTH AND WELFARE	Safety precaution: • erection and use of scaffolds	Understand the causes and prevention of spontaneous	Discussion with trainees
		use of fire extinguishers	combustion	

6.0.	ABRAZING MATERIALS AND EQUIPMENTS	 use of protective clothing prevention of industrial dermatitis Abrasives: Groups of abrasive materials Coated powdered abrasives Other equipments: Orbital sander; rotary, disc sander, belt sander, rotary wire brush etc. 	Safety precautions when using the equipments i. wear goggles ii. wear hand goggles etc Care and maintenance of equipments	Show real equipments, pictures or charts Demonstrate
7.0.	COMPOSITION OF PAINTS	Composition of Paints: Pigments Binder Thinner Drier Additive in paints: Extenders Stabilizer Anti-skinning agents Thixotropic agents Resins Plasticiser	Colours of different pigments White – Titanium oxide etc. Blue – Prussian blue etc. Green – Emerald etc. Yellow – Chrome etc. Black – Carbon etc. Red – Vermilian etc. Brown – Vandyke etc.	Discussion with trainees

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
8.0.	SEQUENCE OF PAINT	Sequence of Application: Sealer	 Wood – sealer Undercoat finishing 	Discussion

	APPLICATION	 Primer Undercoat Finishing coat Functions of each coating 	 Plaster – Primer Undercoat, finishing Metal – primer Undercoat, finish etc. 	
9.0	TRANSPARENT AND SEMI- TRANSPARENT COATINGS	Transparent materials Stains Varnish Wood preservatives	Methods of application:Pressure impregnationSteepingDippingBrush, spray or swab	Discussion with trainee
10.0	COLOUR	Twelve colours Red purples Reds Yellow reds Green etc.	Safety signs Prohibition – Red Warning – Yellow Mandatory – Blue Emergency - Green	Chalkboard illustration Trainee activity
11.0	LETTERING	Roman Letters Free-hand and geometrical style Setting out of Roman and other letters in free hand and geometrical style. Construction of correct serifs	 Techniques of painting – in various types of letters. Tools and their uses Cleaning 	Chalkboard illustrationTrainee activity

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
12.0.	STENCILLING	Material used for cutting stencils:	Other stencil materials:	Discussion

		 Self-prepared Ready-prepared stencil paper Plastic stencil sheet Metal stencil sheet etc. 	Masking tapeLining tapeLiquid adhesive	IllustrationsTrainee activity
13.0	SPRAY PAINTING	Spray guns: i. Airless spray ii. Electrostatic spray	Care and maintenanceStorageAdvantages and disadvantages	Show real specimen or picturesLectureDiscussion
14.0.	JOB PLANNING (INTERIOR)	Parts of a room: E.g. Ceiling bed, cornice, frieze, wall filling, dado, dado rail skirting.	 Safety precaution when working Cleaning on completion 	 Show real divisions of a room Illustrate by the use of chart Lecture Discussion
15.0	JOB PLANNING (EXTERIOR)	Parts of the Exterior of a building: Fascia board, gutters, walls, etc.	 Cleaning of working area on completion Safety precautions 	LectureDiscussion

TASK CRITICAL POINTS SUB-POINTS	INSTRUCTIONAL TECHNIQUES
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1.0	PROPERTIES OF	Properties of paint :	Different types and their properties	Discussion
	PAINT	Consistency		
		Opacity		Discussion
		Spreading capacity		
		Adhesion		
		Elasticity/flexibility		
		Density		
		Drying speed		
		• Flow		
		Durability		
		Conditions that can affect the properties		
		of paint:		
		Cold weather, hot weather, highly porous		
		surface, industrial pollution etc.		
2.0	TYPES OF FILMS	Convertible (non-reversible)	Convertible coatings:	Discussion
		Non – convertible (reversible)	Epoxy resin paint	
			Oil paint	
			Oil varnish	
			Non – convertible coatings	Trainee activities
			Cellulose paint	Trainee activities
			Bitumen Spint varnish	

TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES

3.0	CONDENSATION	<u>Causes</u> :	Treatment of damp surfaces	Discussion
	AND DAMPNESS	Condensation: Warm air coming into contact with cold surface	Treatment of condensation	Trainee activities
		 Dampness: Moisture in new building materials Moisture penetrating from outside Rising damp Condensation 	 Effects of dampness and condensation on painted surfaces Formation and treatment of 	
4.0	ACIDS AND ALKALI	Difference between acid and alkali Building materials that are alkali in nature: • Asbestos, brick, concrete, cement rendering etc. Building materials that are acidic in nature: Wood, oak, chestnut, red cedar, surfaces in industrial area	pattern staining Use red or blue litmus paper to detect acid or alkaline.	Discussion Laboratory test
		Effect of alkali: Saponification Effect of acids: Efflorescence Bleaching		

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
5.0	FUNGI	Definition of fungus: Types of fungus:	Treatment of fungi before and after painting	Show real examples of fungi

6.0	SOLUTION, SUSPENSION, EMULSION, AND COLLOIDAL STATE	 Mould, lichen, moss, dry rot, wet rot, etc. Effects of fungi on paint application Meaning of solution, suspension, emulsion and colloidal state Difference between the stated mixtures E.g. of the stated mixtures 	•	Experiment on each of the mixtures	Discussion Demonstration Trainee activity
7.0	DEFECTS (PAINT APPLICATION)	Application defects: Bittiness Fat edges Flashing/sheariness Grinning Lifting or picking up Misses/holidays Orange peel Ropiness Runs/sagging Saponification Wrinkling Blooming Causes of the above defects	•	Preventive methods of the defects Remedy or cure the defects	Show pictures of defect Show trainees the original defects (if any) Discussion with trainees
8.0	DEFECTS (IN TIN)	Defects in paint tin during storage: • Fattening, feeding, livering, settling, skinning Understand the causes of each defect	•	How to prevent each defect Remedy or cure of the defects	Show pictures of defects to trainees Show trainees the original defect (if any) Discussions

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
9.0	DEFECTS (ON	Defects on surface:	Prevention of the defects:	Discussion with trainees

	SURFACE)	 Efflorescent, lichen, moss and algae, moulds fungus, dry rot, wet rot, wet rot, pattern staining Causes of each defect 	Treatment of remedy of the defects	
10.0	DEFECTS ((PAINT FILM)	Paint film defects: Bleaching Blistering Bleeding Chalking Cissing Cracking or crazing Flaking or peeling Loss of gloss and sinking Cause of each defect	How to prevent each defect Remedy or treatment of each defect	Show pictures or real samples of defect to trainees Discussion with trainees
11.0	TOTAL SURFACE AREA (Revision exercises)	Total surface area of the objects below:	The shapes of the objects	Chalkboard activities Trainee activities Assessment

TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
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12.0	SURFACE AREA OF A ROOM	 Area of ceiling and floor Area of walls Area of doors and windows 	Tools used for measuring: Rule, tape etc.	 Chalkboard illustrations Discussion Trainee activity Assessment
13.0	SURFACE AREA OF A ROOM	Determine the actual wall surface to be painted by subtracting area of doors and windows (openings) from total wall area.	Addition and subtraction	 Chalkboard illustration Discussion Trainee activity Assessment
14.0	SURFACE AREA OF A ROOM	Determine the actual wall surface to be painted by expressing OPENINGS as a percentage of the walls. E.g. Openings (door and windows) is equal to 40% of walls. Actual walls = Total walls minus 40%		 Chalkboard illustration Discussion Trainee activities Assessment
15.0	COSTING	 Quantities of material for a specific job Cost of materials to be used for job Cost of tools needed for job 		 Chalkboard illustration Discussion Trainee activity Assessment

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
16.0	COSTING	Calculation of LABOUR Cost taking into consideration the tasks below and total man-hour to finish and wage/day Scraping Rubbing – down Priming Filling Application of finish (two coats) Application of oil finish (doors and windows)		 Chalkboard illustration Discussions Trainee activity assessment
17.0	COSTING	Meaning of Prime Cost: Calculation of the PRIME COST By adding material cost to labour cost	Demonstrate competence in addition and subtraction	Chalkboard activitiesDiscussionAssessment
18.0	COSTING	Meaning of GROSS PROFIT: Calculate gross profit as a percentage of the prime cost of the job. E.g. Gross profit is equal to 45% of prime cost = 45 x prime cost 100	Apply knowledge in percentage	Chalkboard activitiesDiscussionAssessment
19.0	COSTING	Meaning of Overheads: Calculate overheads as a percentage of the gross profit. E.g. Overheads is 30% of gross profit	Apply knowledge in percentages	Chalkboard activitiesDiscussionAssessment
20.0	COSTING	Difference between gross profit and Net profit: Ability to calculate NET PROFIT by subtracting overheads from gross profit. i.e. Net profit equals Gross profit – overheads	Demonstrate skills in addition and subtraction	Chalkboard activitiesDiscussionAssessment

CERTIFICATE TWO – TRADE DRAWING

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
1.0	GEOMETRICAL DRAWING EXERCISES	Exercises:		Trainee activityAssessment
2.0.	SCALES	Types: Plain scale Diagonal scale		DemonstrationTrainee activityAssessment
3.0	PROJECTIONS	Types: Isometric Oblique Orthographic	Use of set square for the types of projections	DemonstrationTrainee activityAssessment
4.0	PRODUCTION OF ELEVATIONS	Views: Front elevations End elevations Plan	Use of set square for the types of projections	Demonstration on chalkboardTrainee activityAssessment
5.0	CONSTRUCTION OF POLYGONS	Types: Pentagon Hexagon Heptagon Octagon etc.	Methods: Set square Compass etc.	Demonstration on chalkboardTrainee activityAssessment

CERTIFICATE TWO – TRADE DRAWING

	TASK	CRITICAL POINTS	SUB-POINTS	INSTRUCTIONAL TECHNIQUES
6.0	FREEHAND DRAWING	Types: • Flowers • Trees • Pots etc.		Chalkboard illustrationTrainee activityAssessment
7.0	REPRODUCTION OF DESIGNS	Types: • Enlargement • Reduction	Methods: Squaring	Chalkboard illustrationTrainee activityAssessment
8.0	PERSPECTIVE DRAWING	Types Houses Boxes Roads etc.		Chalkboard illustrationTrainee activityAssessment
9.0	SHADING	LightDark	Using – Orange Pot Cube etc.	Chalkboard illustrationTrainee activityAssessment
10.0	DRAWING OF LABELS	Labels: Club beer Match box Tigo Kasapa etc.		Chalkboard illustrationTrainee activityAssessment
11.0	SECTION OF OBJECTS	CylinderConeSphere etc.		Chalkboard activitiesTrainee activitiesAssessment

CERTIFICATE TWO - TRADE PRACTICALS

	TASK	CRITICAL SKILLS	SUB-SKILLS	INSTRUCTIONAL TECHNIQUES
1.0	TOOLS AND EQUIPMENTS	Types of Tools Scrapper, universal scraper, filling knife, stopping knife etc.	Uses of tools:Care and maintenance of tools and equipmentStorage	Guide trainees to identify, compare and select different types of tools and equipment
2.0	EXERCISE ON THE USE OF VARIOUS TYPES OF BRUSHES	Types: Flat wall brush - Radiator brush Two knot brush - Flat paint brush, block brush etc.	CleaningMaintenanceStorage	Guide students on the use of various types of brushes
3.0	EXERCISE ON THE USE OF VARIOUS TYPES OF PAINT ROLLERS	Select suitable type of paint roller for a specific workHandling and application	Cleaning Care/maintenance Storage	Guide students on the various types of paint rollers
4.0	USING VARIOUS TYPES OF STOPPING AND FILLING MATERIALS	 Selection of the appropriate stopper or filler for a specific work Mixing with a filling knife Using putty knife for stopping Application of filler 	Precautions to be observed when handling filler or stopper Storage	DemonstrationStudent activity
5.0	PREPARATION OF PLASTER AND CEMENT- BASED SURFACE	 Removal of plaster nibs Rubbing down/dusting Application of appropriate primer Filling / making-good 	Safety precautions during preparation Use of appropriate tools	- Demonstration - Student activity
6.0	EXERCISE ON THE PREPARATION OF WOOD PRODUCTS	 Rubbing down with abrasive Treatment of knots (if any) Select a suitable primer and apply Application of filler or stopper 	Mixing of the putty/filler Safety precautions to be observed when using filler and stoppers	IntroductionGuidanceAssessment

CERTIFICATE TWO - TRADE PRACTICALS

	TASK	CRITICAL SKILLS	SUB-SKILLS	INSTRUCTIONAL TECHNIQUES
7.0	PREPARATION OF METALS - FERROUS - NON- FERROUS	 Weathering of metals Cleaning and removal of grease and oil materials Scraping, wire brushing or abrading to remove rust and scale Selection of suitable primer Application of primer 	To differentiate between ferrous and non-ferrous metals Safety precautions Use of protective clothing/equipment	- Demonstration - Guidance - Student activity
8.0	PREPARATION OF OLD OIL- PAINTED SURFACE	 Washing down(for a finish or re-painting) Removal of defective paint using paint remover Burning – off Rubbing and dusting Application of primer Filling and stopping 	Effective lightning and use of blow lambs - Care and maintenance of equipment - Safety precautions when burning off - Selection of paint remover	- Demonstration - Student activity
9.0	SAFETY, HEALTH AND WELFARE	Demonstration knowledge and USE of safety, health and welfare regulations concerning: - Fire precautions - Storage of materials - Lead paint regulations - Industrial hygiene - Protective equipments for (fumes, dust, noise, vibration) - First aid treatment	- Effective selection and use of the safety equipment	Demonstrate and guide students to use equipment
10.0	EXERCISE IN THE APPLICATION OF: - SEALERS - PRIMERS - UNDERCOAT - FINISHING PAINTS	 Selection of appropriate materials Correct mixing of materials Demonstration of application skills Follow the correct sequence of application 	- Cleaning - Care/maintenance of tools - Storage	- Demonstration - Guidance - Student activity

CERTIFICATE TWO - TRADE PRACTICALS

	TASK	CRITICAL SKILLS	SUB-SKILLS	INSTRUCTIONAL TECHNIQUES
11.0	Application of transparent and semi-transparent coating	 Selection of appropriate material Correct mixing of material Demonstration of application skills with varnishes, stains and wood preservation 	 Working under good weather conditions Cleaning, care and maintenance of tools Storage 	- Demonstration - Student activity
12.0	Exercise on the application of special paints	 Demonstration the ability to select special paints for special purpose Then use of correct thinners Effective application techniques (use of brush, roller or spray gun) 	 Ability to observe and work under good weather conditions Observance of the use of safety, health and welfare of equipment 	- Introduction - Student activity - Assessment
13.0	Draw and paint the munsel colour circle	 Construct a circle and divide into TEN equal segments Mix and paint the colours in the correct order 	- Geometrical drawing	Guidance to draw circle, divide and fill-in-with mixed paints
14.0	Exercise on pigmentry colours	 Select or mix colours to obtain Primary colours Secondary colours Tertiary colours 	 Selection of correct tools for mixing Cleaning, care and storage of tools 	Provide different coloursSupervisionAssessment
15.0	Exercise in construction and painting of block Letters - Capitals - Lower Case	 Determine the height/thickness ration Construction of letters on drawing paper Trace/transfer letters onto panel Fill-in letters with paint using suitable writers 	 Use of correct drawing equipment Use of correct tools Cleaning Maintenance/care Storage of tools 	- Supervision - Assessment

CERTIFICATE TWO - TRADE PRACTICALS

	TASK	CRITICAL SKILLS	SUB-SKILLS	INSTRUCTIONAL TECHNIQUES
16.0	Exercise in construction and painting of Gill San Serif - Capitals - Lower case	 Determine the height/thickness ration Determine the stroke thickness Construction of letters on drawing paper Trace / transfer letters on drawing a panel Fill letters with paint using suitable writers 	 Use of correct drawing equipments Use of correct tools Cleaning Maintenance/care Storage of tools 	- Supervision - Assessment
17.0	Introduction to modern Block letters	 Determine the height and thickness ration Determine the difference between thick stroke and thin stroke Construct letters on drawing sheet 	- Use of correct drawing equipment	Chalk board illustrationStudent activityAssessment
18.0	Stenciling exercise - Positive - Negative	Demonstrate skills in: - Design of motives, letters and simple objects - Cutting of stencil - Formation ties - Application of paint onto motif	 Geometric and free hand drawing Selection of tools and techniques Correct disposal of rags(to prevent spontaneous combustion) 	Student activitySupervisionAssessment
19.0	Introduction to spray painting	 Prepare surface to suitable standards Masking (if any) Mixing of paint into suitable consistency Selection of suitable gun for spraying Demonstrate correct spraying techniques 	 Assembling of spraying equipment Safety precautions Cleaning of gun Storage 	- Demonstration - Student activity

CERTIFICATE TWO - TRADE PRACTICAL

TASK		CRITICAL SKILLS	SUB-SKILLS	INSTRUCTIONAL TECHNIQUES
20.0	Introduction to scaffolding - Putlog - Independent - Mobile scaffold	 Understand and demonstrate skills in erection of the scaffolds Techniques in ascending and descending scaffold 	Inspection of scaffold for safety (every 7 days)Application of safe working regulations	 Guidance to erect a tubular scaffold Demonstrate ascending and descending techniques Guide students to dismantle scaffold
21.0	General painting (INTERIOR) - Ceiling - Walls	 Prepare surface of ceiling and walls Mix emulsion to a suitable consistency Application of paint to ceiling Application of paint to walls Demonstrate skills in cutting – in between ceiling and walls 	 Cleaning of tools Observation of safety regulations Storage of tools Cleaning of paint droppings 	GuidanceSupervision
22.0	General painting (INTERIOR) - Doors - Windows	 Rubbing down/dusting off Select suitable primer for doors and windows Mix primers to a suitable consistency Demonstrate skills in painting Fill holes and cracks Rub down filler and apply undercoat Demonstrate skills in applying finishing coat i.e. laying off and correct cutting - in 	 Observation of safety regulations Cleaning of tools Storage of tools 	- Guidance - Supervision

CERTIFICATE TWO - TRADE PRACTICAL

	TASK	CRITICAL SKILLS	SUB-SKILLS	INSTRUCTIONAL TECHNIQUES
23.0	General painting (EXTERIOR)	 Preparation of surface Demonstrate skill in exterior painting from; ceiling to wall Select suitable primer for exterior wood members Prime fascia board and exterior doors and windows Fill cracks and nail holes Rub down filler and dust off Apply undercoat Demonstrate skills in applying finishing off and cutting-in 	 Observation of safety regulations Cleaning of tools Storage of tools 	- Guidance - Supervision

LEVEL - CERTIFICATE ONE - TEST SPECIFICATION TABLE TRADE THEORY (OBJECTIVE)

NO	торіс	COGNITIVE KNOWLEDGE	AFFECTIVE UNDERSTANDING	PSYCHOMOTOR APPLICATION	TOTAL
1.	Reasons for applying	1			1
	paints				
2.	Tools and equipment	1	1		2
3.	Paint brushes	1	1		2
4.	Paint rollers	1	1		2
5.	Preparation of surfaces	1		1	2
6.	Safety, Health and Welfare	1	1		2
7.	Abrading materials	1	1		2
8.	Stopping and filling	1		1	2
9.	Composition of paints	1	1		2
10.	Special purpose paints	1	1		2
11.	Water paints	1	1		2
12.	Stencilling	1		1	2
13.	Colour	1	1		2

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

NO	TOPIC	COGNITIVE KNOWLEDGE	AFFECTIVE UNDERSTANDING	PSYCHOMOTOR APPLICATION	TOTAL
1.	Scaffolding	1			1
2.	Spray painting	1	1	1	3
3.	Paint defects	1			1
					5