Republic of Rwanda
Ministry of Education

RTB | RWANDA TVET BOARD

CERAMICS

PFACO301

Make ceramic objects

Competence

RQF Level: 3

Learning Hours 100

Credits: 10

Sector: ARTS AND CRAFTS

Trade: Plastic and Fine Arts

Module Type: Specific

Curriculum: CRAPFA3001- TVET Certificate 3 in Plastic and Fine Art

Kigali, May 2023

<table>
<tr><td>Purpose statement</td><td colspan="6">This module describes the skills, knowledge and attitudes required to make ceramic objects. At the end of this module, learners will be able to prepare ceramic work, compose and model ceramic objects.</td></tr>
<tr><td>Learning assumed to be in place</td><td colspan="6">Occupation and learning process, SHE, Fundamental artistic drawing, History of arts</td></tr>
<tr><td rowspan="6">Delivery modality</td><td colspan="2">Training delivery</td><td>100%</td><td colspan="2">Assessment</td><td>Total 100%</td></tr>
<tr><td colspan="2">Theoretical content</td><td>30%</td><td rowspan="4">Formative assessment</td><td>30%</td><td rowspan="4">50%</td></tr>
<tr><td colspan="2">Practical work:</td><td rowspan="3">70%</td><td rowspan="3">70%</td></tr>
<tr><td>• Group work and presentation</td><td>30%</td></tr>
<tr><td>• Individual work</td><td>40%</td></tr>
<tr><td colspan="3"></td><td colspan="2">Summative Assessment</td><td>50%</td></tr>
</table>

Knowledge	Skills	Attitude
ESSENTIAL KNOWLEDGE ✓ Identify the theme ✓ Gather ceramic models references ✓ Enumerate ceramic techniques ✓ Differentiate types of clay	**ESSENTIAL SKILLS** • Prepare a workplace • Prepare tools, materials and equipment • Apply SHE at workplace • Apply rules of composition • Apply principles of art in ceramic • Enlarge the drawing • Define ceramic details • Finish the ceramic • Package the ceramic object	**WORKER BEHAVOUR/ATTITUDES** ✓ Use creativity and innovation throughout the design works ✓ Pay attention to design projects details ✓ Demonstrate punctuality during the implementation of the design project ✓ Demonstrate resourcefulness in the new design trends

Elements of Competency and Performance Criteria

Elements of competency	Performance criteria
1. Prepare ceramic works	1.1 The ceramic subject(s) is/are properly identified according to the client requirements.

	1.2 Tools, materials and equipment are properly identified as per their uses.
	1.3 The workplace is properly prepared based on ceramic work to be performed.
	1.4 Tools, materials and equipment are correctly prepared according to the preparation methods.
2. Compose ceramic models	2.1 The model is properly drafted in coherence with the drawing process.
	2.2 Ceramic models are properly developed as per related rules of composition.
	2.3 Ceramic model is correctly enlarged by using the scale.
3. Model ceramic objects	3.1. The artwork image is appropriately transferred on the surface according to the transfer methods.
	3.2. The artwork is correctly modelled according to the modelling methods and techniques.
	3.3. The model is adequately finished based on finishing process.

	Course content

Learning outcomes	**At the end of the module the learner will be able to:** 1. Prepare ceramic work 2. Compose ceramic model 3. Model ceramic object
Course structure	
Learning outcome 1: Prepare ceramic works	**Learning hours: 15**
Indicative content	
• ***Identification of ceramic subjects*** ✓ *Decorative motifs* ✓ *Plate* ✓ *Tiles* ✓ *Vases* • ***Identification of tools, materials and equipment*** ✓ *Tools*	

- *Modelling tools*
- *Detailing tools*
- *Finishing tools*

✓ *Materials*

- *Dry*
- *Wet*

✓ *Equipment*

- *Preparation equipment*
- *Modelling equipment*
- *Drying equipment*

- ***Workplace preparation***

✓ *Workplace cleaning*

✓ *Workplace lighting*

✓ *Workplace ventilation*

- **Preparation of tools, equipment, materials and surface**

✓ Tools and Equipment preparation

- Sharpening and cleaning tools
- Lubrication

✓ Material Preparation

- Clay preparation
- Mortar mixing

✓ Arranging/ organising equipment

✓ Cleaning and scrubbing surface

Resources required for the learning outcome	
Equipment	Potter wheels, kneads, mixer with helix, tunnel kilns, pug mills mixer,
Materials	Soap, water, powder soap, spray, detergent
Tools	Buckets, Concrete back, plastic sacks, wheelbarrow, sacs, squeegee, hoes
Facilitation techniques	• Demonstration

	• group work • Practical exercise • Individualized • Trainer guided • Group discussion
Formative assessment methods /(CAT)	• Written assessment • Oral presentation • Performance assessment

Learning outcome 2: Compose ceramic models	**Learning hours: 15**
Indicative content	

- **Drafting ceramic model**
  - ✓ Drawing process
    - Gather references
    - Sketch designs
    - Refine the drawing
- **Developing ceramic model**
  - ✓ **Rules of composition**
    - Rule of thirds
    - Rule of odds
    - Rule of space
    - Geometric and symmetry
    - Leading eyes
    - Iconic
- **Enlarging ceramic model**
  - ✓ **Scaling**
    - Reducing scales

- Enlarging scales

Resources required for the learning outcome	
Equipment	Potter wheels, kneads, mixer with helix, tunnel kilns, pug mills mixer
Materials	Soap, water, powder soap, spray, detergent
Tools	Buckets, Concrete back, plastic sacks, wheelbarrow, sacs, squeegee, hoes
Facilitation techniques	• Demonstration • Group work • Practical exercise • Individualized • Trainer guided • Group discussion
Formative assessment methods /(CAT)	• Written assessment • Oral presentation • Performance assessment

Learning outcome 3: Model ceramic	**Learning hours: 70**

Indicative content

- **Transferring methods**
  - Stencilling
  - Sketching
  - Gridding
- **Modelling artworks**
  - ✓ **Modelling Methods**
    - Mass production
    - Coil production
  - ✓ **Modelling techniques**
    - Subtractive

- Additive
- Moulding

- **Finishing ceramic object**
  - ✓ Detailing
  - ✓ Signing
  - ✓ Drying

Resources required for the learning outcome	
Equipment	Potter wheel, kneads, mixer with helix, tunnel kiln, traditional kilns Potter wheel, kneads, mixer with helix, tunnel kiln, traditional kilns
Materials	Clay, cement, wax, fondant, skimmers, sand, powder of bones, paper, water
Tools	Knives, press roller, plastic sacks, power hummer, sketch out tools, blanket, sieve, buckets, concrete backs, hoes
Facilitation techniques	• Demonstration • group work • Practical exercise • Individualized • Trainer guided • Group discussion
Formative assessment methods /(CAT)	• Written assessment • Oral presentation • Performance assessment

Integrated/Summative assessment

Text for integrated situation:

Ceramic Effort Ltd, based in Kayonza has signed a contract with Kayonza Cultural Museum of making five vases with Rwandan decorative motif. The vases must be made in clay and should have 30-50cm of base and 150 cm of height.
This work must be realized within five days and all materials and tools are available at the workplace.

Resources

Tools	Knives, press roller, plastic sacks, power hummer, sketch out tools, blanket, sieve, pestle, buckets, concrete backs, hoes
Equipment	Potter wheel, kneads, mixer with helix, tunnel kiln, kneads, mixer with helix, tunnel kiln, traditional kilns
Materials/ Consumables	Clay, cement, wax, fondant, skimmers, sand, powder of bones, paper, water

Assessable outcomes	Assessment criteria (Based on performance criteria)	Indicator	Observation		Marks allocation
			Yes	No	
1. Prepare ceramic works **(20%)**	1.1 The ceramic subject(s) is/are properly identified according to the client requirements.	Five vases with Rwandan decorative motif are identified			3
		Measurements are respected			3
		Timing is respected			4
	1.2 Tools, materials and equipment are properly identified as per their uses.	Appropriate tools are selected			3
		Appropriate equipment is selected			3
		Appropriate materials are selected			2
	1.3 The workplace is properly prepared based on ceramic work to be performed.	Workplace is cleaned			4
		Workplace is lightened			2
		Workplace ventilated			2
		Workplace is organised, tool,			3

		material and equipment arranged			
	1.4 Tools, materials and equipment are correctly prepared according to the preparation methods.	Tools are cleaned and sharpened			1
		Lubrication is done where need be			1
		Clay is prepared			1
		Surface is cleaned and scrubbed			1
2. Compose ceramic models 40	2.1 The model is properly drafted in coherence with the drawing process.	References are gathered			3
		Designs are sketched			4
		The drawing is refined			3
	2.2 Ceramic models are properly developed as per related rules of composition.	Rule of thirds is respected			3
		Rule of odds is respected			3
		Rule of space is respected			3
		Geometric and symmetry rule is respected			3
		Leading eyes rule is respected			3
		Iconic rule is respected			3
	2.3 Ceramic model is correctly enlarged by using the scale.	Scales are reduced where need be			3
		Scales are enlarged where need be			3

		Sanding is appropriately applied.			3
		Assembling techniques are correctly applied.			3
3.Model ceramic objects **(40%)**	3.1. The artwork image is appropriately transferred on the surface according to the transfer methods.	Appropriate transfer method(s) is/are used			3
	3.2. The artwork is correctly modelled according to modelling methods and techniques.	Appropriate modelling technique(s) are used			10
		Appropriate modelling method(s) are used			8
	3.3 The model is adequately finished based on finishing process.	Detailing is performed			6
		Signing is done			3
		Drying is done			10
Total marks					**100**
Percentage Weight age					**100%**
Minimum Passing line % (Aggregate): 70%					

List of abbreviations

RTB: Rwanda Tvet Board

TVET: Technical Vocational Education and Training

CAT: Continuous Assessment Test

References

- **Book of ceramic technology (Ecole d' Arts de Nyundo)**
- **www.ceramicor.com>cooking**
- **www.larousse.fr**
- **Google.rw**