



**THE REPUBLIC OF KENYA**

**COMPETENCY BASED CURRICULUM**

**FOR**

**BUILDING TECHNOLOGY**

**KNQF LEVEL 6**

**ISCED PROGRAM CODE: 0732 554B**



**TVET CDACC**

**P.O BOX 15745-00100**

**NAIROBI**

## MASONRY UNITS

**UNIT CODE:**CON/CU/BUT/CR/03/6/B

### Relationship to Occupational Standards

This unit addresses the unit of competency: Produce Masonry Units

**Duration of Unit:** 120 hours

### Unit Description

This unit describes the competences required to manufacture masonry units. It involves producing masonry bricks, preparing concrete and clay products and dressing building stones

### Summary of Learning Outcomes

1. Produce Masonry Bricks
2. Prepare concrete products
3. Dress building stones
4. Prepare clay products

### Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Produce Masonry Bricks	<ul style="list-style-type: none"><li>• Woodwork</li><li>• Building regulations</li><li>• Soil mechanics/testing</li><li>• Construction materials</li><li>• Modelling and drying of bricks</li><li>• Burning of bricks</li></ul>	<ul style="list-style-type: none"><li>• Practical assignment/project</li><li>• Oral Questioning</li><li>• Written Tests</li></ul>
2 Prepare concrete products	<ul style="list-style-type: none"><li>• concrete mould preparation</li><li>• concrete constituents</li><li>• Batching methods</li><li>• ASTM Standards</li><li>• Curing Concrete</li></ul>	<ul style="list-style-type: none"><li>• Practical assignment/project</li><li>• Oral Questioning</li><li>• Written Tests</li></ul>
3 Dress building stones	<ul style="list-style-type: none"><li>• Stone dressing tools</li><li>• Building stones</li><li>• Stone surface finish</li></ul>	<ul style="list-style-type: none"><li>• Practical assignment/project</li><li>• Oral Questioning</li><li>• Written Tests</li></ul>
4.Prepare clay products	<ul style="list-style-type: none"><li>• Clay products</li><li>• Test of clay products</li></ul>	<ul style="list-style-type: none"><li>• Written Tests</li><li>• Oral Questioning</li></ul>

	<ul style="list-style-type: none"> <li>• Packaging of clay products</li> </ul>	<ul style="list-style-type: none"> <li>• Projects/practical assignment</li> </ul>
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### **Suggested Methods of Instruction:**

- Demonstration by trainer
- Practical work by trainee
- Demonstration videos
- Project
- Group discussions

### **Recommended Resources**

#### **Tools and equipment**

- Carpentry tools
- Soil testing tools and kits
- Masonry tools

#### **Materials and supplies**

- Clay
- Concrete constituents
- Water
- Packaging materials

#### **Personal protective equipment (PPEs)**

- Overalls
- Gum boots
- First aid kits
- Safety goggles
- Helmets
- Gloves
- Dust coats
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