



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

## **BUILDING EXTERNAL WORKS**

**UNIT CODE:**CON/CU/BUT/CR/08/6/B

### **Relationship to Occupational Standards**

This unit addresses the unit of competency: Execute building external works

**Duration of Unit:** 100 hours

### **Unit Description**

This Unit describes the competency required to perform building external works. It involves laying cabro blocks and paving slabs, performing landscaping, constructing drainage systems, fences and gates.

### **Summary of Learning Outcomes**

1. Lay external paving
2. Perform landscaping
3. Construct drainage system
4. Construct fences and gates

### **Learning Outcomes, Content and Suggested Assessment Methods**

<b>Learning Outcome</b>	<b>Content</b>	<b>Suggested Assessment Methods</b>
1. Lay external paving	<ul style="list-style-type: none"><li>• Types of external paving</li><li>• Survey</li><li>• Design interpretation</li><li>• Levelling</li><li>• Bonding paving joints</li></ul>	<ul style="list-style-type: none"><li>• Written Tests</li><li>• Oral Questioning</li><li>• Practical tests</li></ul>
2. Perform soft landscaping	<ul style="list-style-type: none"><li>• Plan interpretation</li><li>• Ground preparation</li><li>• Beautification</li><li>• Ground irrigation methods</li></ul>	<ul style="list-style-type: none"><li>• Written Tests</li><li>• Oral Questioning</li><li>• Practical's/Projects</li></ul>
3. Construct drainage system	<ul style="list-style-type: none"><li>• Building codes</li><li>• Excavation</li><li>• Laying drainage pipes</li><li>• Drainage collection chambers</li></ul>	<ul style="list-style-type: none"><li>• Written Tests</li><li>• Oral Questioning</li><li>• Practical's/Projects</li></ul>
4. Construct fences and gates	<ul style="list-style-type: none"><li>• Types of fences</li><li>• Gate shutter materials and preparation</li><li>• Taking measurements</li></ul>	<ul style="list-style-type: none"><li>• Written Tests</li><li>• Oral Questioning</li><li>• Practical's/Projects</li></ul>

	<ul style="list-style-type: none"> <li>• Gate dimensions</li> <li>• Gate shutter fixing</li> </ul>	
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### **Suggested Methods of Instruction:**

- Demonstration by trainer
- Practical work by trainee
- Demonstration videos
- Projects
- Group discussions
- Field trips

### **Recommended Resources**

#### **Tools and equipment**

- Spades
- Trowels
- Hammers
- Pangas
- Jembes
- Wheelbarrows
- Wood floats
- Steel floats
- Hark saws

#### **Materials and supplies**

- Ballast
- Cement
- Sand
- Water
- Trained personnel
- Pipes

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

- Gum boots
- head covers
- gloves
- dust coats

- first aid kits
- mouth pieces