



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

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

	<ul style="list-style-type: none"> • Gate dimensions • Gate shutter fixing 	
--	--	--

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