



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 TEMPORARY WORKS

UNIT CODE: CON/CU/BUT/CC/05/6/B

Relationship to Occupational Standards

This unit addresses the unit of competency: Execute Building Temporary Works

Duration of Unit: 90 HOURS

Unit Description

This Unit describes the competencies required to perform building temporary works. It involves Construct and dismantle trench timbering, constructing and dismantling building formwork/shuttering and trench timbering.

Summary of Learning Outcomes

1. Construct and dismantle building formwork/shuttering
2. Construct and dismantle trench timbering
3. Erect and dismantle building scaffolding
4. Erect and dismantle building shores

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Construct and dismantle trench timbering	<ul style="list-style-type: none">• Trench timbering materials and tools• Soil mechanics• Site investigation• Trench timbering methods• Trench layout design• Trench timbering dismantling	<ul style="list-style-type: none">• Project/practical assignment• Written Tests• Oral Questioning
2. Construct and dismantle building formwork/shuttering	<ul style="list-style-type: none">• Structural elements• Types of formwork• Formwork materials• Formwork measurements and dimensions	<ul style="list-style-type: none">• Project/practical assignment• Written Tests• Oral Questioning

	<ul style="list-style-type: none"> • Timber properties • Formwork construction/installation • Formwork dismantling 	
3. Erect and dismantle building scaffolding	<ul style="list-style-type: none"> • Types of scaffolds • Scaffold drawing • Assembling and dismantling of scaffolds • Personal protective equipment • Site safety requirements • Site clearance 	<ul style="list-style-type: none"> • Project/practical assignment • Written Tests • Oral Questioning
4. Erect and dismantle building shores	<ul style="list-style-type: none"> • Types of foundations • Types of shores • Shoring materials • Shores connection methods • Construction laws • Local authority guidelines • Shoring construction and erection • Shoring dismantling 	<ul style="list-style-type: none"> • Project/practical assignment • Written Tests • Oral Questioning

Suggested Methods of Instruction:

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

Recommended Resources

Tools and equipment

- Hammer
- Handsaw
- Shoring equipment
- Survey instruments
- Spanners
- Spirit level
- Plumb bob

Materials and supplies

- Field notebook
- Nails
- Bolts and nuts
- Timber poles
- Metal poles
- Metal plates
- Moulding oil

Personal protective equipment (PPEs)

- Overall
- Helmet
- Safety boots
- Masks
- Gloves
- First aid kit
- Reflectors
- Safety goggles