

EXECUTING EXTERNAL WORKS

UNIT CODE: CON/CU/BUT/CR/07/5

UNIT DURATION: 60 Hours

Relationship to Occupational Standards

This unit addresses the Unit of Competency: execute external works

UNIT DESCRIPTION

This unit describes the competencies required to execute external works. It involves performing landscaping, constructing drainage system, laying external paving, and constructing gates and fences.

Summary of Learning Outcomes

1. To perform landscaping
2. To construct drainage system
3. To lay external paving
4. To construct gates and fences

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Perform landscaping	<ul style="list-style-type: none">• Preparation of landscaping ground• Landscape gardening• Irrigation method• Beautification	<ul style="list-style-type: none">• Written texts• Practical• Projects• Oral
2. Construct drainage system	<ul style="list-style-type: none">• Drainage channels• Backfilling leveling and compacting• Drainage pipes• Gulley traps	<ul style="list-style-type: none">• Written assessment• Practical• Projects• Oral
3. Lay external paving	<ul style="list-style-type: none">• Ground survey• Ground excavation• Base preparation• Levelling• Kerbs stones, surface drainage• Laying external paving• Marking	<ul style="list-style-type: none">• Written assessment• Practical• Projects• Oral

<p>4. Construct gates and fences</p>	<ul style="list-style-type: none"> • Gate location and orientation • Gate measurements • Gate supporting systems <ul style="list-style-type: none"> - RC columns - Stanchions - Stone Piers • Procurement and installation of the gate • Perimeter fence • Essential services <ul style="list-style-type: none"> - CCTVS cameras - security lighting - razor wire - Electric fence. 	<ul style="list-style-type: none"> • Written assessment • Practical • Projects • Oral
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Suggested Methods of Instruction

- Viewing of related videos
- Discussions
- Direct Instruction
- Lecture
- Question and answer
- Site visits
- Practicals
- Project

Recommended Resources for 25 Trainees

- 10 Desktop computers/laptops
- Internet connection
- 2 Projector
- 5 Whiteboard
- 10 roll Flip Chart
- Assorted colour of whiteboard markers
- Precast concrete kerbs
- Precast concrete paving units
- Quarry dust
- Sand
- Cement
- Ballast
- Construction tools
 - 10 Spade
 - 5 Wheelbarrows

- 25 assorted Painting brushes
- 25 Trowels
- 25 Spirit levels
- 25 assorted Screw drivers
- 25 Hammers
- 25 Plumb bobs
- 25 Wooden float
- 25 Steel float
- 25 Head pans

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