### **EXECUTE EXTERNAL WORKS**

UNIT CODE: CON/OS/BUT/CR/07/5/A

### **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.

## ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key	These are assessable statements which specify the required level
outcomes which make up	of performance for each of the elements
workplace functions	(Bold and italicized terms are elaborated in the range)
1. Perform landscaping	1.1 Area for landscaping is determined in accordance with the
	site layout
	1.2 Landscaping ground is prepared as per design specifications
	1.3 vegetative features are planted as per the landscape design
	1.4 Irrigation method is determined as per landscape design
	1.5 <i>Beautification</i> is carried out as per design specifications
2. Construct drainage	2.1 Drainage drawings are interpreted as per the design
system	requirement
	2.2 <i>Drainage channels</i> are excavated as per the drawing
	2.3 Backfilling, Levelling and compacting is done as
	specification
	2.4 <i>Drainage pipes</i> are laid as per civil engineering drawings
	2.5 Drainage channels and collection chambers are constructed
	according to civil engineering drawings
3. Lay external paving	3.1 Ground is surveyed to determine topography
	3.2 Ground is excavated to the required depth according to
	engineers' specification.
	3.3 The base is prepared in accordance with civil engineers'
	specifications
	3.4 Levelling dust is spread in accordance with civil engineers'
	specifications
	3.5 Kerbs stones and channels are laid as per the specification.
	3.6 <i>External paving</i> is laid as per civil engineers'
	specifications.
	3.7 Marking is done as per directional requirement.
4. Construct gates and	4.1 Gate location and orientation is determined according to site
fences	layout.
	4.2 Gate measurements are determined according to the
	specifications
	•
	of practice
	4.4 Gate is procured and installed as per design measurements
Tences	<ul> <li>4.2 Gate measurements are determined according to the specifications</li> <li>4.3 <i>Gate supporting systems</i> are constructed according to codes of practice</li> </ul>

4.5 <i>Perimeter fence</i> is constructed as per design requirement.
4.6 Essential services (CCTVS cameras security lighting razor
wire, Electric fence) are installed as per design requirement.

#### **RANGE**

This section provides work environment and conditions to which the performance criteria apply. It allows for different work environment and situations that will affect performance.

Variable	Range
1. 1. Beautification include but	Ornamental trees
are not limited to:	Grassing
	• Flowers
	• Shrubs
	Ground cover
	Garden furniture
	Garden lighting
2. Drainage channels include but	Open channels
are not limited to:	Closed channels
3. Drainage pipes include but are	concrete pipes
not limited to:	PVC pipes
	GI pipes
	PPR pipes
4. External paving include but are	Tarmac
not limited to:	Concrete blocks
30	Clay
0	Ceramic
	Rubble stones
	Paving slabs
5. Perimeter fence include but are	Masonry walls
not limited to:	Live fence
	Reinforced concrete walling
	Wooden post and chain link/barbed wire
	Steel post and chain link
	Concrete post and chain link

# REQUIRED KNOWLEDGE AND SKILLS

This section describes the knowledge and skills required for this unit of competency.

- Occupational Health and Safety
- Technical Drawing
- Building Drawing
- Mensuration
- Construction plants and equipment
- Construction materials

- General Building Construction
- Physical planning
- Carpentry and Joinery

## Required skills

The individual needs to demonstrate the following skills:

- Communication skills
- Problem solving skills
- Analytical skills
- Numeracy skills
- concrete mixer operation
- Critical thinking
- Construction tools handling skills

#### **EVIDENCE GUIDE**

This provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills range.

1.Critical aspects of competency	Assessment requires evidence that the candidate:
	1.1 Prepared landscaping ground as per design specifications
	1.2 Performed beautification as per design specifications
	1.3 Excavated drainage channels as per the drawing.
	1.4 Laid drainage pipes as per civil engineering drawings.
	1.5 Laid external paving as per civil engineers' specifications.
	1.6 Constructed gate supporting systems according to codes of practice.
	1.7 Constructed perimeter fence as per design requirement.
	1.8 Installed security equipment as per design requirement
2. Resource implications	The following resources should be provided:  2.1 Access to relevant workplace where assessment can take place.  2.2 Appropriately simulated environment where assessment can take place.  2.3 Resources relevant to proposed activity or task.
3. Methods of assessment	Competency in this unit may be assessed through: 3.1 Practical assignment 3.2 Written 3.3 Oral interview 3.4 Demonstrations 3.5 Observation

4. Context of	Competency may be assessed:
assessment	4.1 On-the-job
	4.2 In a simulated workplace setting
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector and workplace job role is recommended.

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