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071906T4AEN

AGRICULTURAL ENGINEERING LEVEL 6

ENG/OS/AGR/CR/04/6/A

Perform Soil and Water Conservation Activities

March/April 2025

TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

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PRACTICAL ASSESSMENT

INSTRUCTIONS TO ASSESSOR

1. Assess the candidate as the practical progresses observing the critical areas
2. You are required to mark the practical as the candidate perform the tasks
3. You are required to take video clips at critical points
4. Ensure the candidate has a name tag and registration code at the back and front

OBSERVATION CHECKLIST

Candidate's Name & Registration Code			
Assessors Name & Registration Code			
Venue of Assessment			
Date of Assessment			
Items to be Evaluated: *Please award marks as appropriate. Give a brief comment on your observation.*	**Marks Available**	**Marks Obtained**	**Comments**
1. Worn PPE nature of the job to be done *(Overall/dustcoat, safety boots/gumboots)* *(Award 1 mark each)*	2		
2. Assembled the tools and materials as per the nature of the job *(Award 1 mark)*	1		
TASK 1: Construction of semicircular bunds			
3. Designed and drew the expected bunds in line with terrain of the location. *(dimensioning, accuracy)* *(Award 1 mark each)*	2		
4. Cleared all vegetation as per the design *(Award 1 mark)*	1		
5. Traced the bunds on the ground according to the drawing to form smooth curved lines *(Award 2 marks each bund)*	6		
6. Fixed pegs on the outline of the bunds *(Award 2 marks each bund)*	6		
7. Marked the shape with lime *(Award 1 mark each)*	3		
8. Constructed semi-circular bunds based on the good agricultural practice *(excavating, sloping, accuracy)*	9		

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(Award 1 mark each per bund) *(we have three bunds)*			
Subtotal 1	30		
TASK 2: Construction of a gabion box.			
9. Selected a suitable site for gabion construction. *(Award 1 mark)*	1		
10. Cleared the site to remove vegetation, debris and loose soil. *(Award 1 mark each)*	3		
11. Excavated and levelled foundation to provide a stable base. *(Award 2 marks each)*	4		
12. Unrolled and shaped the mesh *(Award 1 mark for unrolling and 2 marks for shaping)*	3		
13. Secured the edges using a lacing wire to form a box shape. *(Award 1 mark each edge)*	4		
14. Placed the empty basket on the prepared foundation. *(Award 1 mark)*	1		
15. Used stakes to prevent movement during filing. *(Award 1 mark)*	1		
16. Filled the basket with stones • *Placed stones evenly* • *Compacted to minimize voids* • *Ensured no stones are protruding through the mesh* *(Award 2 mark each)*	6		

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17. Closed and secured the top of the basket with lacing wire. *(Award 1 mark for closing and 2 marks for lacing)*	3		
18. Backfilled behind the gabion structure with soil or gravel in line with good agricultural practice *(Award 1 mark)*	1		
19. Cleaned the tools and returned to the store *(Award 1 mark each)*	2		
20. Observed safety to self and others *(Award 1 mark)*	1		
Subtotal 2	30		
GRAND TOTAL	**60**		

ASSESSMENT OUTCOME

The candidate was found to be:

Competent ☐ Not yet Competent ☐

(Please tick as appropriate)

(The candidate is competent if the candidate obtains at least 50%)

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Feedback from the Candidate:

Feedback to the Candidate:

Candidate Signature **Date:**

_____ _____

Assessor's Signature **Date**

_____ _____