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071305T4EOP

ELECTRICAL OPERATION LEVEL 5

ENG/OS/PO/CR/02/5/A

Install Electrical Power Lines

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.

This checklist consists of FOUR (4) printed pages.

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**
OBSERVATION			
1. Safety: Wore the correct protective equipment • *Dust coat/ Overall.* • *Safety boots.* • *Helmet.* *(Award 1 mark each)*	1 1 1		
2. Correctly used the following tool • *Wire strainer* • *Spanners* • *Pole climbers* • *Hand drill* • *Hammer* *(Award 1 marks for each)*	1 1 1 1 1		
3. Correctly used the following; • *Digging tool.* • *Scoop.* (*Award for each)*	1 1		
Sub-Total	**10**		

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TASK 1: Design and construct a two span dead three phase three wire transmission line			
4. Dug holes • *Pole hole has right depth of 4 feet.* • *Stay block hole has right depth of 3 feet.* *(Award 5 marks for each)*	5 5		
5.Erected the poles correctly. *(Award 1 mark for each pole)*	2		
6.Drilled holes on the pole using drilling machine. *(Award any ½ x10)*	5		
7. Correctly mounted transmission line • *Pin type insulators mounted.* • *Conductor mounted on insulator.* *(Award 4 marks for each)*	4 4		
8. Terminated the transmission line. *(Award any ½ x10 terminated points)*	5		
Sub-Total	**30**		
TASK 2: Construct three phase three wire distribution line on the span			
9.Fixed shackle insulators correctly. *(Award 1 mark for each fixed 1x8)*	8		
10. Installed conductors on shackle.*(Award 3 marks on each pole)*	6		
11. Performed protective multiple earthing (PME) of the neutral wire. • Earth rod • Correctly used conductor • Firmly terminated *(Award 1 for each)*	1 1 1		
12. Fixed danger warning plates. *(Award 1 mark for each plate)*	2		

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13. Fixed PME plate (*Award 1 or 0)*	1		
14. Correctly installed lightening arrestor at receiving end (*Award 3 or 0)*	3		
Sub-Total	**23**		
GRAND TOTAL	**63**		
$\frac{x}{63} \times 100$	**100**		

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%)

Feedback from the Candidate:

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Feedback to the Candidate:

Candidate Signature **Date:**

_____ _____

Assessor's Signature **Date**

_____ _____

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