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ELECTRICAL ENGINEERING (POWER OPTION) LEVEL 6

ENG/OS/PO/CR/02/6

Install Electrical Power Lines

Nov/Dec 2024



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

PRACTICAL ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. You are required to perform the following task in pairs (thus group of twos). If you are one look for someone to work with..

TASK 1: You are required to prepare a three-phase dead end support (pole)

2. You are provided with the following resources
 1. Two erected pole
 2. Earth Electrode resistance tester
 3. Cross arm
 4. Aluminum conductor 20 mm²

5. Insulator shackle type
6. Hand Driller
7. Wooden bits
8. Strut
9. Protective Multiple Earthing Plate(PME)
10. Lock nuts and bolt
11. Washers
12. climbers
13. Climbing belt
14. Manila rope 10 meters long

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TASK 1:

You are required to prepare a three-phase dead end support (pole), ready to terminate three phase four wire overhead (Low voltage) line.

- a) Prepare a material list to enable you to carry out the project of dressing and erecting a dead-end support (Wooden pole) for a three phase four wire transmission power line.
- b) Acquire and assemble the materials listed in task 1.
- c) Install the strut support at the sending end and stay wire system at the terminal/receiving end.
- d) Using the appropriate tools and equipment; install the earthing system, Attach the PME plate at the receiving end.
- e) Using the appropriate tools and equipment; carry out the Earth electrode resistance test.

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