071306T4EEN

ELECTRICAL ENGINEERING (POWER OPTION) LEVEL 6

ENG/OS/PO/CR/02/6

Install Electrical Power lines

July/August 2025

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

PRACTICAL ASSESSMENT

Time: 4 HOURS

INSTRUCTIONS TO THE CANDIDATE

1. Figure 1 shows a layout of a single-phase distribution system. The poles are pre-mounted. You are required to carry out the following tasks;
   - **TASK 1**: Fix the cross arm and associated accessories as shown.
   - **TASK 2:** String the two spans
   - **TASK 3:** Support the end post with a stay wire
   - **TASK 4:** Earth the system and carry out the Earthing test of the installation.
2. You are provided with the following resources to perform the tasks:
   i. Stay insulator
   ii. Conductor 75mm2 AA HD Bare

iii. Stay rod
iv. Stay wire
v. Stay block concrete
vi. Suspension type insulator
vii. Bolt and Nuts (9" x 5/8")
viii. Eye bolt and Nut M20x300 (¾ x 14") H.D Ga
ix. Cross arm
x. Copper wire
xi. PME plate
xii. Copper earth rod 5"x ½" c/w clamp
xiii. Connector Line Tap 50mm2 (AL)
xiv. Wood pole 10M

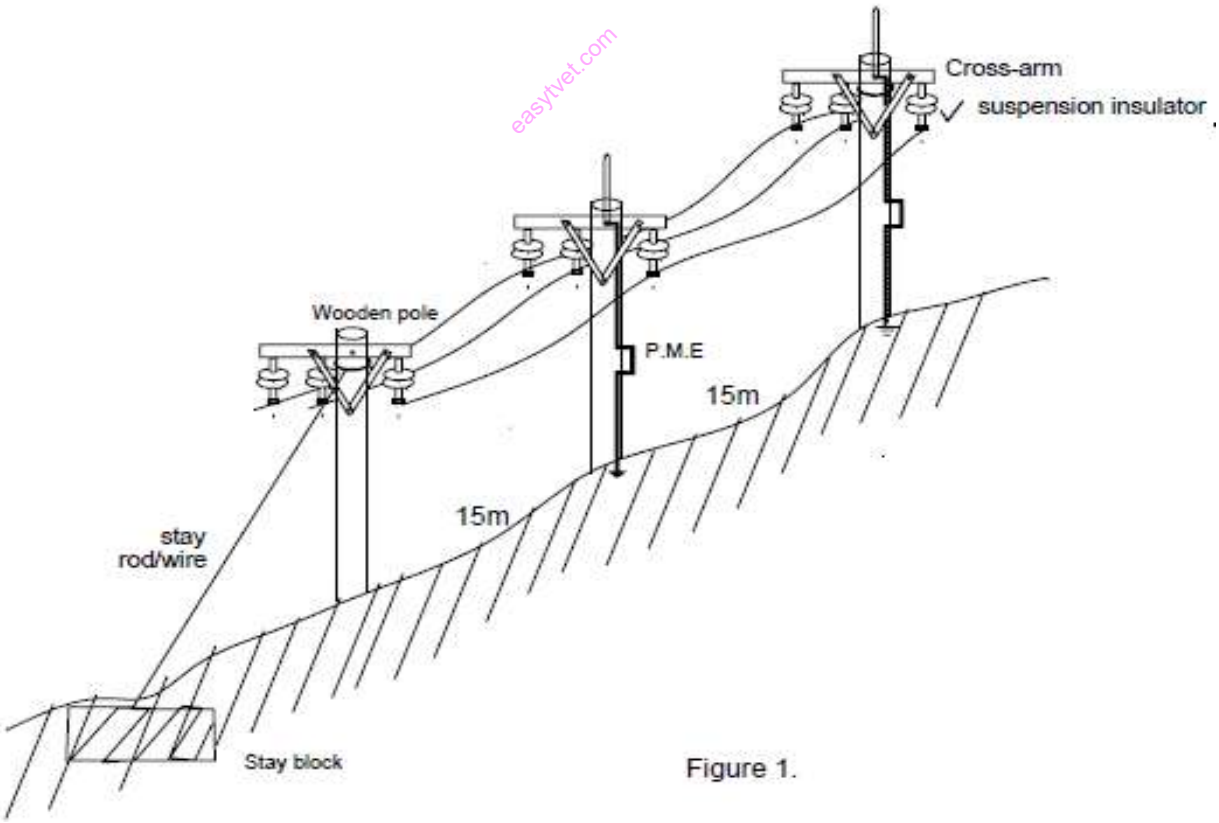

Figure 1.