

073106T4LAS

LAND SURVEY AND MAPPING LEVEL 6

LSM/OS/LS/CR/03/6/A

Conduct Cadastral Survey

July/August 2025



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

PRACTICE

ASSESSMENT

Task

URS

INSTRUCTIONS TO CANDIDATE:

1. You have been provided with the following resources for the practical tasks:

- *A Handheld GPS Receiver.*
- *A Computer installed with Microsoft Office (Ms Excel) and AutoCAD/ArcGIS software.*
- *Printing papers (A4 size).*
- *Pegs(6 Pieces)*
- *30m, 50 m or 100 m tapes*
- *Hammer/Mallet.*
- *Writing materials (foolscaps).*
- *Printer/Plotter*
- *Scientific calculator.*

2. You are required to perform the following tasks;

- i. Set out a polygon as indicated in **Figure 1** on a gently sloping ground. The lines of the polygon should be of unequal length of distance ranging from 15-20 meters.

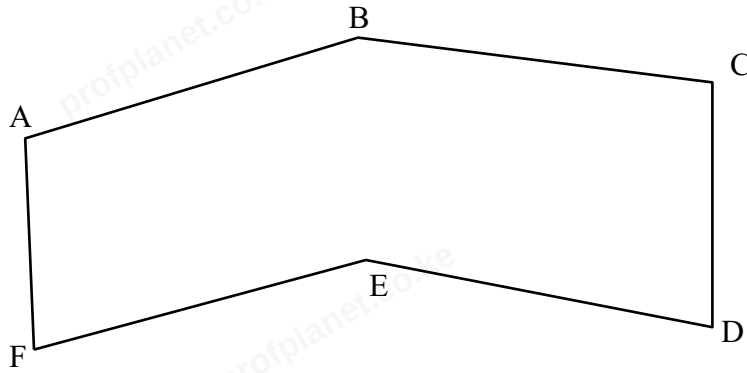


Figure 1

- ii. Using the handheld GPS receiver print coordinates of points A, B, C, D, E and F and record them in the writing material provided.
- iii. With the recorded coordinates of A, B, C, D, E and F, compute the area of the polygon.
- iv. Enter the coordinates of points A, B, C, D, E and F into an excel worksheet and import them to the AutoCAD/ArcGIS software.
- v. Plot polygon ABCDEF on the software and create a line joining points E and B.
- vi. Along line EB of the polygon, plot a road of 6 metres width on the right side of EB that cuts polygon ABCDEF into two polygons ABEF and B'CDE' separated by a road.
- vii. Prepare and print out a cadastral plan of polygon ABCDEF together with points B' and E' with the new separating road on an A4 piece of paper.

3. You are required to have two non-candidate assistants for the exercise.