

073106T4LAS

LAND SURVEY LEVEL 6

LSM/OS/LS/CR/02/6/A

Conduct Engineering Survey

Nov/Dec 2024



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

PRACTICE

TIME: 6 HOURS

INSTRUCTIONS TO CANDIDATE

1. You are required to demonstrate how to set out a simple circular curve by offsets from the tangents by performing the following tasks with the help of figure 1:
 - i. Choose a suitable area and set out a line T_1T_2 measuring 24 m
 - ii. Position a peg at point A midway between T_1 and T_2
 - iii. Erect a perpendicular at A to I measuring 16 m.
 - iv. Set out IT_1 and IT_2 measuring 20 m each and locate the centre O of the curve
 - v. Use the measurements provided to determine the deflection angle and the radius of the curve (R)
 - vi. Set out the curve using a perpendicular offset from the tangent at an interval of 5 m.
 - vii. Plot the curve at a suitable scale

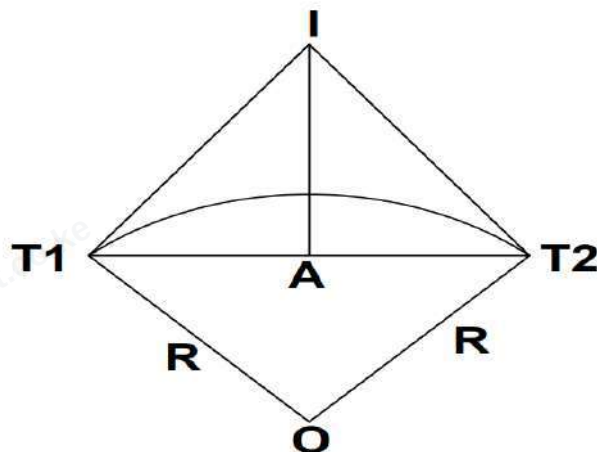


Figure 1

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

- Site
- tapes (30m, 50 m or 100 m)
- Ranging rods
- Pegs
- Hammer/ Mallet
- Writing materials (Foolscaps/A4 P
- A2 drawing paper
- Masking tape

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