

073105T4LAS

LAND SURVEY AND MAPPING LEVEL 5

LSM/OS/LM/CR/02/5/A

Conduct Engineering Survey

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 tasks with reference to figure 1:
 - i. *Select a suitable site and set out a straight line T_1T_2 measuring 24 meters.*
 - ii. *Position a peg at point A midway between T_1 and T_2 .*
 - iii. *Set out IT_1 and IT_2 measuring 20m each to intersect at I measuring 16 m from A.*
 - iv. *Use the measurement provided to compute the deflection angle and the radius of the curve (R).*
 - v. *Set out the curve from T_1 to T_2 using the method of offsets from long chord at intervals of 3m.*
 - vi. *Using a suitable scale, plot the curve.*

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

- 50 m steel tape.
- Mallet.
- Pegs (at least 20).
- Writing materials (foolscaps).
- Scientific Calculator.
- Drawing paper (A3 size).
- Straight edge.
- Scale rule.
- Pencil and rubber.

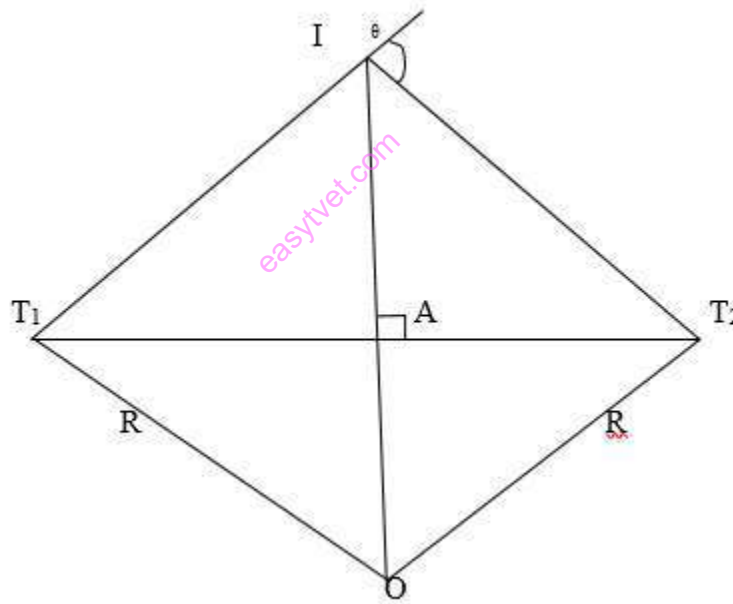


Figure 1