

073105T4LAS

LAND SURVEYING LEVEL 5

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

Conduct Engineering Survey

July/August 2025



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

PRACTICAL ASSESSMENT

Ti URS

INSTRUCTIONS TO TRAINEE

1. You are required to perform the following task: **Set out a simple circular curve.**
2. In this task you are required to carry out the following sub-tasks:
 - a) Assuming the following:
 - standard chord = 10 m
 - chainage of intersection point = 4+927
 - radius of curve = 60 m
 - deflection angle of the straights = 80°

Compute the setting out data and setting out angles for the curve.

- b) Select a fairly level ground not exceeding 0.5 Ha
- c) Locate then peg tangent points and the point of intersection on the ground.
- d) Using the theodolite and a tape, accurately set out and peg the curve.

- e) Assuming a 5 m road reserve either side of the curve, draw an as-built plan of the set-out curve.
3. You are to record photos and short video clips of your performance at critical points.
4. You require the following resources for the practical tasks:

S/NO	ITEM	QUANTITY (per trainee)	PROVIDED BY
1.	100 m tape measure	1 per trainee	Institution
2.	Theodolite and tripod stand	At least 1 for a group of 5	
3.	Ranging rods	At least 3 for a group of 5	
4.	Wooden pegs	3 per trainee	
5.	Mallet	1 per trainee	
6.	Nylon string/Chalk line/Chalk powder	Shared	
7.	Technical drawing set	1 per trainee	Trainee
8.	Foolscaps	2 per trainee	Trainee
9.	A3 drawing paper	inee	Trainee
10.	Pencil and Eraser	inee	Trainee