

073106T4LAS

LAND SURVEY AND MAPPING LEVEL 6

LSM/OS/LS/CR/01/6/A

Conduct Topographical Survey

July/August 2025



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

PRACTICE

Task

ASSESSMENT

Task

INSTRUCTIONS TO CANDIDATE:

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

- *An ordinary levelling instrument with its accessories*
- *50 m Steel tape*
- *Pegs*
- *Mallet/Hammer*
- *Ranging rods*
- *Leveling field note*
- *Scientific Calculator*
- *A2 drawing paper*
- *Scale rule (metric) and set square*
- *Pencil and eraser.*

2. You are required to perform the following tasks;

- i. *Select a suitable site and set out a rectangular plot measuring 40 m by 30 m.*
- ii. *Section the plot into square grids of 10 m by 10 m and mark the intersection points of the grids using pegs.*
- iii. *Establish a Temporary Benchmark (TBM) near the site and assign it an assumed reduced level of 1000.00 m above mean sea level. Clearly mark the TBM for reference throughout the survey.*
- iv. *Using a leveling instrument, take levels at each grid intersection. Record the readings in your field book.*
- v. *Reduce the levels by the height of collimation method to obtain reduced levels.*
- vi. *Using a suitable scale, construct the square grids on the A2 drawing paper provided indicating the reduced levels at each intersection point.*
- vii. *Interpolate at least **two** contours using a suitable contour vertical Interval*

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