

073106T4LAS

LAND SURVEY AND MAPPING LEVEL 6

LSM/OS/LS/CR/04/6/A

Conduct Hydrographic Survey

July/August 2025



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

PRACTICE ASSESSMENT

Time: 6 HOURS

INSTRUCTIONS TO CANDIDATE:

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

- *A Dumpy/Automatic level with its accessories.*
- *30m/50m/100m steel tape*
- *Pegs*
- *Levelling booking sheet and a graph paper*
- *Writing materials(foolscaps)*
- *Scientific calculator*
- *Scale rule (metric)*
- *Drawing set*
- *Pencil and eraser*

2. You are required to perform the following tasks;
 - i. *Choose a suitable linear feature such as a stream, a river or a ground river model.*
 - ii. *Mark five points 8 metres apart along the linear feature and label them as A, B, C, D, and E.*
 - iii. *Identify a suitable TBM within the site and assign an assumed reduced level of 500 m above mean sea level.*
 - iv. *Identify a suitable location within the site and set up the level instrument provided.*
 - v. *Take the staff readings to the five points and calculate their reduced levels using the Rise and Fall method.*
 - vi. *Taking the chainage of A as 220.50m, calculate the chainages of all the other points.*
 - vii. *Plot the ground profile on the graph paper provided using a suitable scale.*
 - viii. *Determine the gradient between the first and the last point along the river/ground model.*
3. You are required to have two non-candidate assistants for the exercise.