

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)**

PRACTICAL ASSESSMENT

INSTRUCTIONS TO ASSESSOR

1. Assess the candidate as the practical progresses observing the critical areas
2. You are required to mark the practical as the candidate perform the tasks
3. You are required to take video clips at critical points
4. Ensure the candidate has a name tag and registration code at the back and front

OBSERVATION CHECKLIST

Candidate's Name & Registration Code			
Assessors Name & Registration Code			
Venue of Assessment			
Date of Assessment			
Items to be Evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks Available	Marks Obtained	Comments
TASK 1			
1. Identified and used PPEs appropriately • Apron/dust coat/reflectors • Safety boots/closed shoes <i>(Award 1 mark for each PPE = 2)</i>	1 1		
Sub-Total 1	2		
TASK 2			
2. Identified a suitable site and marked points A,B,C,D and E • Correctly selected a suitable site with a linear feature such as a stream, a river or a ground river model. • Correctly marked points A,B,C,D and E, 8 meters apart along the linear feature <i>(Award marks as indicated = 7 marks)</i>	2 5		
Sub-Total 2	7		
TASK 3			
3. Established a Temporary Benchmark (TBM) • Established a temporary benchmark (TBM) near			

the site and marked it with a peg.	2		
Indicated a Reduced Level of 500 m on the TBM. (Award marks as indicated = 4 marks)	2		
Sub-Total 3	4		
TASK 4			
4. Set up the instrument at a suitable point.			
Identified a suitable location between the TBM, the first point and set up a tripod stand	2		
Mounted the instrument correctly and levelled the spirit bubble accurately (Award marks as indicated =4 marks)	2		
Sub-Total 4	4		
TASK 5			
5. Booked and reduced the levels by Rise and Fall method.			
Made observations correctly	5		
Used correct booking format	2		
Used the correct method	2		
Accurately reduced observations and performed arithmetic checks (Award marks as indicated = 16 marks)	7		
Sub-Total 5	16		
TASK 6			
6. Calculated the chainages of the five points (A, B, C, D and E)			
Identified point A and assigned a chainage of 220.50m	2		
Correctly computed the chainages of the points B,C,D and E (Award marks as indicated = 10 marks)	8		

Sub-Total 6	10		
TASK 7			
7. Plotted the ground profile • <i>Accurately plotted the profile</i> • <i>Correct choice of scale</i> • <i>Neatness</i> • <i>Completeness</i> <i>(Award 1mark for <50%</i> <i>2 marks for 50-75%</i> <i>3 marks for >75%)</i> <i>(Award marks as indicated = 11 marks)</i>	4 2 2 3		
Sub-Total 7	11		
TASK 8			
8. Determined the gradient. • <i>Correctly determined the distance first and the last point along the river model.</i> • <i>Correctly computed the difference in height between the first and the last point</i> • <i>Correctly calculated the gradient between the first and the last point.</i> <i>(Award marks as indicated = 6 marks)</i>	2 2 2		
Sub-Total 8	6		
GRAND TOTAL	60		
ASSESSMENT OUTCOME			
The candidate was found to be: Competent ☐ Not yet Competent ☐ <i>(Please tick as appropriate)</i> <i>(The candidate is competent if the candidate obtains at least 50%)</i>			

Feedback from the Candidate:	
Feedback to the Candidate:	
Candidate Signature _____	Date: _____
Assessor's Signature _____	Date _____