

073106T4LAS

LAND SURVEY AND MAPPING LEVEL 6

LSM/OS/LS/CR/02/6/A

Conduct Engineering Survey

July/August 2025



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

PRACT SESSMENT

INSTRUCTIONS TO THE 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. • Boots/Closed shoes. <i>(Award 1 mark for each PPE)</i>	2		
Sub-Total 1	2		
TASK 2:			
2. Selected a suitable site and measured 30 m by 20 m • Correctly set out a rectangle of 30 m by 20 m on the ground. <i>(Award marks as indicated = 4 marks)</i>	4		
Sub-Total 2	4		
TASK 3:			
3. Set out Grids 10m by 10m • Correctly set out grids measuring 10 m by 10 m • Pegged and labelled the intersections correctly. <i>(Award marks as indicated = 8 marks)</i>	6 2		
Sub-Total 3	8		
TASK 4:			

4. Identified a stable point to act as a temporary benchmark			
Established a temporary benchmark (TBM) near the site and marked it with a peg.	2		
Indicated a Reduced Level of 1000.00m on the TBM.	1		
(Award marks as indicated = 3 marks)			
Sub- Total 4	3		
TASK 5:			
5. Accurately set up the level instrument			
Correctly mounted the level over a point	2		
Correctly levelled, centered and focussed the instrument	3		
(Award marks as indicated = 5)			
Sub-Total 5	5		
TASK 6:			
6. Take levels at each grid intersection booking them in the relevant field notes			
Made observations correctly	4		
Used correct booking format	2		
(Award marks as indicated = 6 marks)			
Sub-Total 6	6		
TASK 7:			
7. Reduced the levels by rise and fall method			
Reduced the levels by Rise and Fall method	4		
Accurately reduced the levels and performed arithmetic checks	4		
(Award marks as indicated =8 marks)			
Sub-Total 7	8		

TASK 8:			
8. Plotted the grid intersections			
• <i>Accurately plotted and labelled grids.</i>	4		
• <i>Correct choice of scale</i>	1		
• <i>Neatness and completeness</i>	2		
(Award marks as indicated =7 marks)			
Sub-Total 8	7		
TASK 9:			
9. Determine soil volumes			
• <i>Accurately computed the depths of excavation</i>	3		
• <i>Accurately computed the volume of soil to be excavated</i>	4		
(Award marks as indicated =7 mark)			
Sub-Total 9	7		
Total	50		
ASSESSMENT OUTCOME			
The candidate was found to be: Competent ☐ Not yet competent ☐ (Please tick as appropriate) (The candidate is competent if s/he gets at least 50%)			
Feedback from Candidate:			
Feedback to Candidate:			
Candidate's Signature		Date	
_____		_____	
Assessor's Signature		Date	
_____		_____	