

071906T4AEN

AGRICULTURAL ENGINEERING LEVEL 6

ENG/OS/AGR/CR/02/6/A

Construct Farmstead Structures and Farm Roads

Nov/Dec 2024



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

**PRACTICAL ASSESSMENT**

**OBSERVATION CHECKLIST**

<b>Candidate's Name &amp; Registration Code</b>			
<b>Assessors Name &amp; Registration Code</b>			
<b>Venue of Assessment</b>			
<b>Date of Assessment</b>			
<b>Items to be Evaluated:</b> <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	<b>Marks Available</b>	<b>Marks Obtained</b>	<b>Comments</b>
<b>TASK 1:</b>			
1. Wore PPEs <ul style="list-style-type: none"> <li>• Gloves,</li> <li>• safety boots/gumboots,</li> <li>• Overall</li> </ul> <i>(Award 1 mark each)</i>	<b>3</b>		

<p>2. Gathered and identified tools and materials required for construction of a barbed wire fence</p> <ul style="list-style-type: none"> <li>• Wire strainer.</li> <li>• Pliers</li> <li>• Hammer</li> <li>• Spirit level</li> <li>• Plumb bob</li> <li>• Soil auger</li> <li>• 2m Wooden posts (4)</li> <li>• 1m Wooden posts (2)</li> <li>• Barbed wire 36m</li> <li>• U nails (1 KG)</li> <li>• Wooden pegs (5)</li> <li>• 20m string.</li> <li>• Marking paint.</li> <li>• Chalk</li> <li>• Old engine oil</li> <li>• 5” nails ½ kg</li> </ul> <p><i>(Award ½ mark each)</i></p>	<b>8</b>		
<p>3. Prepared the site for fencing</p> <ul style="list-style-type: none"> <li>• Identified the correct site considering the boundaries</li> <li>• Selected appropriate tools</li> <li>• Cleared the site</li> <li>• Appropriately used the tools</li> <li>• Disposed the waste</li> </ul> <p><i>(Award 1 mark each)</i></p>	<b>5</b>		
<p>4. Planned the fence line</p>	<b>14</b>		

<ul style="list-style-type: none"> <li>Marked the location of the first strainer post with a peg</li> <li>Measured the distance to mark the length of the fence</li> <li>Marked the location of the last strainer post with a peg (6m)</li> <li>Marked the location of the ordinary post with pegs (2m spacing)</li> <li>Ensured the pegs were in a straight line by using a string</li> <li>Estimated the depth of the holes using levelling techniques</li> <li>Marked the location of the holes for the ties</li> </ul> <p><i>(Award 2 marks each)</i></p>			
<p>5. Dug out the holes</p> <ul style="list-style-type: none"> <li>Selected appropriate tools</li> <li>Dug the holes to appropriate depth greater than 30cm.</li> <li>Appropriately used the tools</li> </ul> <p><i>(Award 2 marks each)</i></p>	<b>6</b>		
<p>6. Installed the posts</p> <ul style="list-style-type: none"> <li>Erected the first and last strainer posts</li> <li>Ensured the post stood vertically using a plumb bob/ spirit level</li> <li>Ensured the top of the posts were leveled using a spirit level</li> <li>Marked the positions of the ties for the strainer post</li> </ul>	<b>12</b>		

<ul style="list-style-type: none"> <li>Fixed the ties to the strainer posts and hammered them with 5” nails</li> <li>Erected and leveled ordinary posts ensuring they were in line with the strainers using a string</li> </ul> <p><i>(Award 2 marks each)</i></p>			
<p>7. Fixed the barbed wire</p> <ul style="list-style-type: none"> <li>Marked the positions for attaching the barbed wire on the posts using chalk at a spacing of 15cm</li> <li>Fixed the first strand of wire on the marked positions on the posts (middle strand) using U-nails</li> <li>Fixed the remaining strands of wire on the post using U-nails</li> <li>Appropriately used the tools</li> </ul> <p><i>(Award 2 marks each)</i></p>	<b>8</b>		
<ul style="list-style-type: none"> <li>Fixed droppers</li> <li>Measured and spaced the droppers uniformly (25cm apart).</li> <li>Measured and cut the droppers to the correct length (2m)</li> <li>Fixed the droppers on the wire strands using binding wire</li> <li>Ensured the droppers stood vertically</li> <li>Appropriately used the tools</li> <li>Quality of finished fence</li> </ul> <p><i>(Award 2 marks each)</i></p>	<b>12</b>		

8. Adhered to safety workplace procedures according to instructions <i>(Award 1 mark each)</i>	<b>1</b>		
9. Cleaned self <i>(Award 1 mark each)</i>	<b>1</b>		
<b>GRAND TOTAL</b>	<b>70</b>		
<b>ASSESSMENT OUTCOME</b>			
<p>The candidate was found to be:</p> <p style="text-align: center;">Competent <input type="checkbox"/> Not yet Competent <input type="checkbox"/></p> <p><i>(Please tick as appropriate)</i></p> <p><i>(The candidate is competent if the candidate obtains at least 50%)</i></p>			
<b>Feedback from the Candidate:</b>			
<b>Feedback to the Candidate:</b>			
<b>Candidate Signature</b>		<b>Date:</b>	
_____		_____	
<b>Assessor's Signature</b>		<b>Date</b>	
_____		_____	