

**073106T4QSV**

**QUANTITY SURVEYING LEVEL 6**

**ENG/OS/QS/CC/04/6/A**

**Execute Construction Works**

**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

|   |                        |                       |                 |
|---|------------------------|-----------------------|-----------------|
| <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: ACTIVITY CHECKLIST</b>   |                        |                       |                 |
| <p>1. The candidate identified and used PPEs in line with occupational safety and health regulations.</p> <ul style="list-style-type: none"> <li>• Helmet</li> <li>• Gloves</li> <li>• Dustcoat/overall</li> <li>• Gumboots/safety boots</li> <li>• Nose masks.</li> </ul> <p><i>(Award one mark each for any three PPEs correctly donned as per workplace procedures. Total 3 Marks)</i></p> | <b>3</b>               |                       |                 |
| <p>2. The candidate assembled tools and materials to use.</p> <ul style="list-style-type: none"> <li>• Measuring Tape (3m or 5m)</li> <li>• Spirit Level</li> <li>• Hammer</li> <li>• Nails</li> <li>• Shovels</li> <li>• Builder's square</li> </ul>   | <b>5</b>               |                       |                 |

|   |                 |  |  |
|---|-----------------|--|--|
| <ul style="list-style-type: none"> <li>• Plumb bob</li> <li>• Wheelbarrow</li> <li>• Lime/cement</li> <li>• Reinforcement bars 6mm diameter</li> <li>• Binding wire</li> <li>• Sand</li> <li>• Ballast</li> <li>• Water</li> <li>• Cutting tool / pliers</li> <li>• Bending tool</li> <li>• Trowel and float</li> <li>• Timber boards</li> <li>• Compaction rod</li> </ul> <p><i>(Award 1/2 mark each for assembly of any ten tools as per the practical 1/2 x 10 marks. 5 Marks)</i></p>   |                 |  |  |
| <p>3. The candidate accurately set out the position of formwork for pad foundation as per the dimensions in the drawing</p> <ul style="list-style-type: none"> <li>• Accurate dimensions of 600mm x 600mm x 100mm formwork (<math>\pm 50</math> mm tolerance)</li> <li>• Correct placing of formwork (firm and stable fixing)</li> <li>• Set up corners accurately</li> </ul> <p><i>(Award 1/2 mark for each correctly dimensioned formwork <math>1/2 \times 4 = 2</math> marks, 1/2 mark for each correctly placed formwork <math>1/2 \times 4 = 2</math> marks, 1 mark for each correct corner <math>1 \times 4 = 4</math> marks.</i></p> | <p><b>8</b></p> |  |  |

|  |          |  |  |
|--|----------|--|--|
| <i>Award 2 marks for attempted setting out. Total 8 marks)</i>   |          |  |  |
| <p>4. The candidate cut and bent pad foundation reinforcement bars (R6) accurately as per the drawing.</p> <ul style="list-style-type: none"> <li>• Correct number of bars</li> <li>• Accurate bar lengths</li> <li>• Proper bends and hooks</li> </ul> <p><i>(Award 1 mark for correct number of bars, 1 mark for correct bar lengths, 1 mark for proper bends and hooks. Total 3 marks)</i></p>  | <b>3</b> |  |  |
| <p>5. The candidate fixed pad foundation reinforcement in correct layout as per the drawing</p> <ul style="list-style-type: none"> <li>• Proper spacing of bars maintained</li> <li>• Bars placed in correct direction (main &amp; distribution)</li> <li>• Bars securely tied with binding wire</li> <li>• Maintained 25mm cover</li> </ul> <p><i>(Award 2 marks for each correctly performed activity, otherwise 3 marks for attempted layout Total 8 marks)</i></p> | <b>8</b> |  |  |
| <p>6. The candidate cut and bent column reinforcement bars (R6) accurately as per the drawing.</p> <ul style="list-style-type: none"> <li>• Correct number of bars</li> <li>• Accurate bar lengths</li> <li>• Proper bends and hooks</li> </ul>  |          |  |  |

|  |          |  |  |
|--|----------|--|--|
| <p><i>(Award 1 mark for correct number of bars, 1 mark for correct bar lengths, 1 mark for proper bends and hooks. Total 3 marks)</i></p>  |          |  |  |
| <p>7. The candidate fixed column reinforcement accurately as per the drawing.</p> <ul style="list-style-type: none"> <li>• Maintained proper spacing of bars</li> <li>• Positioned bars accurately (vertical bars and rings)</li> <li>• Bars securely tied with binding wire</li> <li>• Maintained 25mm cover</li> </ul> <p><i>(Award 2 marks for each correctly performed activity, otherwise 3 marks for attempted reinforcement layout Total 8 marks)</i></p> | <b>8</b> |  |  |
| <p>8. Mixed and cast concrete properly into pad foundation</p> <ul style="list-style-type: none"> <li>• Proper mixing ratio</li> <li>• Uniform mix without segregation</li> <li>• Concrete properly placed into the formwork</li> </ul> <p><i>(Award 2 marks for each correctly performed activity, otherwise 2 marks for attempted casting Total 6 marks)</i></p>   | <b>6</b> |  |  |
| <p>9. The candidate compacted concrete adequately using compaction rod</p> <ul style="list-style-type: none"> <li>• Compaction started immediately after casting</li> <li>• Rod used uniformly</li> </ul> <p><i>(Award 1 mark for each correctly performed activity Total 2 marks)</i></p>   | <b>2</b> |  |  |

|   |          |  |  |
|---|----------|--|--|
| <p>10. The candidate assembled and positioned column formwork accurately and vertically. Accurate internal dimensions (200mm x 200mm x 750mm) (<math>\pm 50</math> mm tolerance)</p> <ul style="list-style-type: none"> <li>• Accurate dimensions of 200mm x 200mm x 750mm formwork</li> <li>• Vertical alignment of formwork</li> <li>• Set up corners accurately</li> <li>• Provided supports for column formwork (Firm and stable fixing)</li> <li>• Neat and clean internal surfaces</li> </ul> <p><i>(Award 1 mark for correctly dimensioned formwork, 1/2 mark for each vertical alignment of formwork 1/2x4=2 marks, 1/2 mark for each correct corner 1/2x4=2marks, 2 marks for firm and stable fixing, 1 mark for neat and clean internal surfaces. Award 3 marks for attempted setting out. Total 8 marks)</i></p> | <b>8</b> |  |  |
| <p>11. The candidate mixed and cast concrete properly into the column formwork.</p> <ul style="list-style-type: none"> <li>• Mix quality maintained</li> <li>• Concrete properly placed into the formwork</li> <li>• Avoided spillage and segregation</li> <li>• Topped to required height</li> <li>• No displacement of reinforcement</li> </ul> <p><i>(Award 1 mark for each correctly performed activity, otherwise 2 marks for attempted casting Total 5 marks)</i></p>   | <b>5</b> |  |  |

|  |           |  |  |
|--|-----------|--|--|
| <p>12. The candidate compacted concrete adequately using compaction rod</p> <ul style="list-style-type: none"> <li>• Compaction started immediately after casting</li> <li>• Vibrator/rod used uniformly</li> </ul> <p><i>(Award 1 mark for each correctly performed activity Total 2 marks)</i></p>                                 | <b>2</b>  |  |  |
| <p>13. The candidate finished the concrete surface neatly and level.</p> <ul style="list-style-type: none"> <li>• Level and smooth surface</li> </ul> <p><i>(Award 2 marks for a level and smooth surface for column, 2 marks for a level and smooth surface for base. Total 4 marks)</i></p>  | <b>4</b>  |  |  |
| <p>14. The candidate cleaned the working area.</p> <p><i>(Award two marks for disposal of waste material. Total 2 marks)</i></p>   | <b>2</b>  |  |  |
| <p>15. The candidate cleaned and stored the tools and equipment correctly after use.</p> <p><i>(Award 1 mark each for cleaning and proper storing. Total 2 Marks)</i></p>  | <b>2</b>  |  |  |
| <b>Sub-Total 1</b>   | <b>66</b> |  |  |
| <b>TASK 2: PRODUCT CHECKLIST</b>   |           |  |  |
| <p>16. The candidate constructed a pad foundation with accurate overall dimensions</p> <ul style="list-style-type: none"> <li>• Base of the pad foundation matches specified dimensions (<math>\pm 50</math> mm tolerance)</li> <li>• Column dimensions are correct as per the drawing (<math>\pm 50</math> mm tolerance)</li> </ul> | <b>4</b>  |  |  |

|   |           |  |  |
|---|-----------|--|--|
| <p><i>(Award 2 marks for correct dimensions for base, 2 marks for correct dimensions for column. Total =4 Marks)</i></p>  |           |  |  |
| <p>17. The candidate set out reinforcement layout accurately with correctly positioned starter bars and stirrups</p> <p><i>(Award 3 marks for correct positioning of starter bars, 2 marks for correct positioning of stirrups. Total =5 Marks)</i></p>   | <b>5</b>  |  |  |
| <p>18. The candidate constructed a properly aligned pad foundation</p> <ul style="list-style-type: none"> <li>• The pad foundation is square</li> <li>• The column top surface is square in shape</li> <li>• The column is plumb (<math>\pm 10</math> mm tolerance)</li> <li>• Base of the pad foundation is horizontally aligned (<math>\pm 10</math> mm tolerance)</li> <li>• The column is centrally placed and aligned properly with the pad base</li> </ul> <p><i>(Award 2 marks for each accurately achieved criterion. Total 10 marks)</i></p> | <b>10</b> |  |  |
| <p>19. The candidate presented a clean and well finished pad foundation</p> <ul style="list-style-type: none"> <li>• The concrete surface remained intact free from damage or cracks after demolding.</li> <li>• The final product reflected overall neatness and care</li> </ul>   | <b>4</b>  |  |  |

|  |           |              |  |
|--|-----------|--------------|--|
| <i>(Award 2 marks for undamaged finish, 2 marks for overall neatness and presentation. Total 4 marks)</i>  |           |              |  |
| 20. The candidate presented a complete pad foundation and column as per the plan and laid out procedures<br><i>Award 5 marks for above 75% complete, 3 marks for 50-75% complete, 2 marks for 50% complete)</i>  | <b>5</b>  |              |  |
| <b>Sub-Total 2</b>   | <b>28</b> |              |  |
| <b>GRAND TOTAL</b>   | <b>94</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>  |  |
| _____  |           | _____        |  |