



National 5  
Coursework  
Assessment Task



# National 5 Graphic Communication Assignment Finalised Marking Instructions

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# General marking principles

This information is provided to help you understand the general principles that must be applied when marking candidate responses in this assignment. These principles must be read in conjunction with the detailed marking instructions, which identify the key features required in candidate responses.

- a Marks for each candidate response must **always** be assigned in line with these general marking principles and the detailed marking instructions for this assessment.
- b Marking should always be positive. This means that, for each candidate response, marks are accumulated for the demonstration of relevant skills, knowledge and understanding: they are not deducted from a maximum on the basis of errors or omissions.
- c If a specific candidate response is not covered by either the general marking principles or detailed marking instructions, you must seek guidance from your team leader.

| Task |     | Expected response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Max mark | Additional guidance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.   | (a) | <p>Parts must be fully correct, orientated as per data sheet for each component and include all hidden detail;</p> <ul style="list-style-type: none"> <li>• Wheel (1 mark)</li> <li>• Steering support (1 mark)</li> <li>• Sweeper (1 mark)</li> <li>• Dust tray (1 mark)</li> <li>• Top body (2 marks)</li> </ul> <p>Enough dimensioning to allow for manufacture (1 mark)</p> <ul style="list-style-type: none"> <li>• Wheel (All dimensions required)</li> <li>• Steering support (All dimensions required)</li> <li>• Sweeper (All dimensions required)</li> <li>• Dust tray (Max of 1 dimension missing)</li> <li>• Top body (Max of 3 dimensions missing)</li> </ul> | 7        | <p>If candidate has not dimensioned the individual components, marks should be awarded where the views contain all relevant features and appropriate proportion.</p> <p>Top body:</p> <ul style="list-style-type: none"> <li>• 1 mark for the following correct features: initial 330dia cylinder, “V” detail, 45dia cylinder and chamfer.</li> <li>• 1 mark for all other correct features.</li> </ul> <p>You may wish to look at other evidence in this task to help you make your judgement.</p> <p>Where evidence of dimensioning shows the potential for automatic rounding up having taken place due to a decimal point, award the mark for the component being correct.</p> <p>Where a candidate has attempted to overwrite a dimension to hide a modelling error, 0 marks must be awarded for that component.</p> <p>Follow on for orientation. A maximum of 1 mark cannot be accessed for orientating views incorrectly.</p> |

| Task |     | Expected response                                                                                                                                                                                                                                                                                                                                                                                                           | Max mark | Additional guidance                                                                                                                                                                                                                                                                        |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.   | (b) | <ul style="list-style-type: none"> <li>• Accurate assembly - no overlaps or gaps <b>(1 mark)</b></li> <li>• All views related and orientated correctly and produced to a scale of 1:3 <b>(1 mark)</b></li> <li>• Sectional view cutting through the vertical centre of the steering support and sweepers <b>(1 mark)</b></li> <li>• Sectional view cutting through the vertical centre of wheels <b>(1 mark)</b></li> </ul> | 4        | Apply follow on rule where appropriate                                                                                                                                                                                                                                                     |
| 1.   | (c) | <ul style="list-style-type: none"> <li>• Sufficient range of evidence correct across all drawings <b>(2 marks)</b></li> <li>• Sufficient range of evidence with some inconsistencies <b>(1 mark)</b></li> <li>• Poor range and/or many inconsistencies <b>(0 marks)</b></li> </ul>                                                                                                                                          | 2        | Evidence will come from: <ul style="list-style-type: none"> <li>dimensioning</li> <li>3rd angle symbol</li> <li>3rd angle projection</li> <li>suitable scale</li> <li>component titles</li> <li>line types</li> <li>view labels</li> <li>title blocks</li> <li>correct hatching</li> </ul> |

| Task |     | Expected response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Max mark | Additional guidance                                                                                                       |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------|
| 2.   | (a) | <p>Appropriate lighting/ highlights/shadows and pictorial view.<br/>AND</p> <p>Suitable materials</p> <ul style="list-style-type: none"> <li>• The body - aluminium</li> <li>• Dust tray - aluminium</li> <li>• The wheels - rubber</li> <li>• The sweepers - rubber</li> <li>• The steering support - rubber</li> </ul> <p>(1 mark)</p>                                                                                                                                                                                                | 1        | Evidence may be found across the assignment task.                                                                         |
|      | (b) | <p>Correct size/proportion of layout (225x158). (1 mark)</p> <ul style="list-style-type: none"> <li>• Correct identification of flow text along a path (1 mark)</li> <li>• Inclusion of <b>all</b> of the following: one image from data sheets, extended text and logo (2 marks)</li> <li>• Inclusion of <b>two</b> of the following: one image from data sheets, extended text and logo (1 mark)</li> <li>• Inclusion of <b>one or none</b> of the following: one image from data sheets, extended text and logo (0 marks)</li> </ul> | 11       | <p>Markers should measure this to ensure accuracy</p> <p>Ratio (long side/short side) between 1.4 and 1.45 inclusive.</p> |

| Task |     | Expected response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Max mark | Additional guidance                                                                                                                                                                                                                                                                                                                                                |
|------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.   | (b) | <p><b>(continued)</b></p> <ul style="list-style-type: none"> <li>• Correct identification of three design elements and principles<br/><b>(3 marks)</b></li> </ul><br><ul style="list-style-type: none"> <li>• Excellent quality visual impact - <b>4 marks</b></li> <li>• High quality visual impact - <b>3 marks</b></li> <li>• Good quality visual impact - <b>2 marks</b></li> <li>• Fair quality visual impact - <b>1 mark</b></li> <li>• Poor quality visual impact - <b>0 marks</b></li> </ul> |          | <p>1 mark for each design element correctly identified from the list below:</p> <ul style="list-style-type: none"> <li>• Alignment</li> <li>• Depth</li> <li>• Dominance</li> <li>• Contrast</li> <li>• Line</li> <li>• Unity</li> </ul> <p>Use of colour</p> <p>Where an image has been used that has not been made by the candidate no marks can be awarded.</p> |

| Task |     | Expected response                                                                                                                                                                                                                                                                                                                                                                       | Max mark | Additional guidance                                                                                                                                                                                                                                                                                                                                                                                                             |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.   | (a) | <p>For each component visible outlines correct</p> <ul style="list-style-type: none"> <li>• Base (1 mark)</li> <li>• Stem (1 mark)</li> <li>• Power supply (1 mark)</li> </ul> <p>All hidden detail shown. (1 mark)</p> <p>Application or proportion across all sketches (1 mark)</p> <p>Application of construction/projection <b>AND</b> orientation across all sketches (1 mark)</p> | 6        | <p>Use of straight edge is permitted.</p> <p>Clear evidence of the use of drawing board with set squares in producing these sketches will result in no marks being awarded.</p> <p>Evidence of 3D CAD used for this task will result in no marks awarded.</p> <p>Clear difference between construction lines and outlines.</p> <p>If hidden detail is incorrect, then do not consider hidden detail when marking projection</p> |
|      | (b) | <p>Visible outlines of Elevation correctly sketched. (1 mark)</p> <p>Visible outlines of End Elevation correctly sketched and projected from the Elevation. (1 mark)</p> <p>Visible outlines of Plan correctly sketched and projected from the Elevation. (1 mark)</p> <p>Good proportion across all views (1 mark)</p>                                                                 | 4        | <p>Follow-on error applies if elevation is incorrect.</p> <p>Views must be related and in 3<sup>rd</sup> angle.</p> <p>Use of straight edge is permitted.</p> <p>Clear evidence of the use of drawing board with set squares in producing these sketches will result in no marks being awarded.</p>                                                                                                                             |

| Task |     | Expected response                                                                                                                                                                                                                                                                                              | Max mark | Additional guidance                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.   | (c) | <p>Rendered pictorial</p> <p><u>Sketching</u><br/>           High quality sketch (3 marks)<br/>           Good quality sketch (2 marks)<br/>           Fair quality sketch (1 mark)</p> <p><u>Rendering</u><br/>           Good quality rendering (2 marks)<br/>           Fair quality rendering (1 mark)</p> | 5        | <p>No marks for any areas traced from data sheet 3a or 3b.</p> <p>Use of straight edge is permitted.</p> <p>Clear evidence of the use of drawing boards and set squares will result in no marks for the sketch only.</p> <p>Rendering must clearly show materials to be awarded full marks.</p> <ul style="list-style-type: none"> <li>• Base - plastic</li> <li>• Stem - metal</li> <li>• Power supply - plastic</li> </ul> <p>No marks awarded for poor quality sketching or rendering.</p> |

[END OF MARKING INSTRUCTIONS]