



Higher Graphic Communication Assignment Finalised Marking instructions

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General marking principles


Always apply these general principles. Use them in conjunction with the detailed marking instructions, which identify the key features required in candidates' responses.

- a Always use positive marking. This means candidates accumulate marks for the demonstration of relevant skills, knowledge and understanding; marks are not deducted for errors or omissions.
- b If a candidate response does not seem to be covered by either the principles or detailed marking instructions, and you are uncertain how to assess it, you must seek guidance from your team leader.

Detailed marking instructions

In all cases, where the candidate's work does not meet the lowest range statement, or where no evidence is provided, then zero marks should be awarded.

Task			Expected response	Max mark	Additional guidance	Additional Notes
1.	(a)	(i)	Related orthographic drawing and auxiliary plan of the propeller (part 1)	4	<ul style="list-style-type: none"> Accurate modelling of the propeller (part 1) (1 mark) Two related views, at a scale of 2:1, of the propeller (part 1) (must be correct orientation as on data sheet 3), including relevant hidden detail in both views (1 mark) Auxiliary plan of surface X(1 mark) A minimum of one angular dimension (1 mark) 	<ul style="list-style-type: none"> Must be correct projection
		(ii)	Related orthographic drawing of the motor housing (part 2)	3	<ul style="list-style-type: none"> Accurate modelling of the motor housing (part 2) (1 mark) Three related views, at a scale of 3:1, of the motor housing (part 2) (must be correct orientation), including relevant hidden detail in all three views (1 mark) chain and parallel dimensions correctly applied (1 mark) 	<ul style="list-style-type: none"> Candidate can produce end elevation on LH or RH side.

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1.	(a)	(iii)	Related orthographic drawing and sectional view of the connecting arm (part 4)	3	<ul style="list-style-type: none"> • Accurate modelling of the connecting arm (part 4) (1 mark) • Right-hand sectional end elevation through correct cutting plane X of the connecting arm (part 4), producing correct view (elevation and sectional view must be correct orientation) (1 mark) • Dimensional tolerance of ± 0.25 on 16 dimension (1 mark) 	<ul style="list-style-type: none"> • If candidate has produced a LH sectional end elevation, provided sectional cutting plane and view produced are correct then mark can be awarded  <p style="text-align: center;"> $16 \pm 0,25$ $16,25 \pm 0,75$ </p> <ul style="list-style-type: none"> • Award marks for symmetrical or common tolerance if applied correctly to 16 dimension

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1.	(b)		6	<ul style="list-style-type: none"> • Accurate modelling of the helix component of the shock leg (part 3) (1 mark) • Accurate modelling of the rest of the shock leg (part 3) (1 mark) • Correct stepped sectioning through stepped-sectional cutting plane Y producing correct view (1 mark) • Relevant enlargement view, at a scale of 3:1, showing how all components fit together (1 mark) • Four component parts and STEP file assembled correctly (no overlaps, etc.) (1 mark) • Propeller (part 1) orientated as indicated on data sheet 2 (1 mark) 	<ul style="list-style-type: none"> • View produced must be on RHS. Follow on rule can be applied if cutting plane Y is overlapping view.
1.	(c)	Exploded Isometric of drone prototype sub-assembly	2	<ul style="list-style-type: none"> • Exploded isometric view (1 mark) • Correct alignment, spacing and order of components - no overlaps (1 mark) 	<ul style="list-style-type: none"> • Orientation must be as per data sheet 1

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1.	(d)	<p>Standards and Conventions</p> <ul style="list-style-type: none"> • Sufficient range of evidence correct across all drawings (2 marks) • Sufficient range of evidence with some inconsistencies (1 mark) • Insufficient range and/or many inconsistencies (0 marks) 	2	<p>Evidence will come from:</p> <ul style="list-style-type: none"> • dimensioning • 3rd angle symbol • 3rd angle projection • suitable scale • component titles • line types • view labels (as appropriate) <ul style="list-style-type: none"> ○ ELEVATION, END ELEVATION, PLAN ○ SECTION #-# ○ DETAIL VIEW # OR ENLARGED PARTIAL VIEW # ○ AUXILIARY VIEW # • title blocks • correct hatching 	

Task		Expected response	Max mark	Additional guidance	Additional Notes
2.	(a)		2	<ul style="list-style-type: none"> Drone sub-assembly x4, and all STEP files included, suitably scaled relative to each other (1 mark) <p>Note: apply follow-on rule if candidate did not correctly model any components</p> <p>All components and STEP files correctly assembled as shown on data sheet 7 (1 mark)</p>	<ul style="list-style-type: none"> If a centre did not download the new version of the task/STEP file, marks can still be allocated provided the assembly is correct for the components used. Evidence from 2b/2c or candidate may have produced an orthographic. Provided information is clear and visible, marks can be awarded for work generated

Task		Expected response	Max mark	Additional guidance	Additional Notes
2.	(b)	Rendered pictorial illustration	8	<ul style="list-style-type: none"> • Textured metal applied to a minimum of one component/STEP file (1 mark) • Suitable materials/colours applied to all components, including one component/STEP file which features two colours or materials (or both) (1 mark) • Logo graphic decaled to top curved surface of drone top STEP file (1 mark) • Correct viewpoint and scale in both rendered views. (1 mark) • Application of appropriate lighting, highlights and shadows: <ul style="list-style-type: none"> - Skilled application in both rendered views (2 marks) - Good application in minimum one rendered view (1 mark) - Limited application in both rendered views (0 marks) • Render output quality: <ul style="list-style-type: none"> - No pixilation visible in both rendered views (2 marks) - Some pixilation visible in one or both rendered views (1 mark) - Significant pixilation in both rendered views (0 marks) 	<ul style="list-style-type: none"> • Accept any metal texture • Orientation of decal not relevant. If “CertraDrone” text is backwards, Higher skill has not been demonstrated and mark cannot be accessed. • If candidate has not applied a textured metal material, apply follow-on rule and award mark if zoomed-in view is produced of any component or STEP file

Task		Expected response	Max mark	Additional guidance	Additional Notes
2.	(c)	Final copy of pull-up banner	11	<ul style="list-style-type: none"> • Correct structure and proportion, and notice taken of solid colour fill (1 mark) • Effective use of transparency (1 mark) • Layout includes: <ul style="list-style-type: none"> - company logo - 2 CMYK colours - minimum 1 font - All copy text used (1 mark) • 2 images from image bank OR viewpoint 1 pictorial illustration and one 1 image from image bank included (1 mark) • Effective cropping applied to an image (1 mark) • Effective use of rhythm in the layout (1 mark) • Effective use of two of the following; texture, value, balance, emphasis, proportion: <ul style="list-style-type: none"> - Identifying correct use of both chosen design principles or elements (2 marks) - Identifying correct use of one chosen design principle or element (1 mark) - Award 0 marks if candidate has not identified a principle or element from the list 	<ul style="list-style-type: none"> • If candidate has not produced a render, can still access mark by using 2 images from image bank • Full crop only

Task		Expected response	Max mark	Additional guidance	Additional Notes
2.	(c)	(continued)		<ul style="list-style-type: none"> • DTP elements and principles: <ul style="list-style-type: none"> - Applied with a high level of skill and significant visual impact (3 marks) - Applied with a good level of skill, providing good visual impact (2 marks) - Applied with some level of skill, providing some visual impact (1 mark) - Limited use of DTP principles and elements, providing limited visual impact (0 marks) 	
2.	(d)	<p>Business card</p> <p>(Candidate only needs to produce one side. If they have produced two, the theme must match at least one of the sides)</p>	3	<ul style="list-style-type: none"> • Follows theme, includes copy text and correct proportion (1 mark) • Identifying effective use of grid structure (1 mark) • Effective use of reverse (1 mark) 	<ul style="list-style-type: none"> • Accept lines to represent copy text, no annotation required • Candidates may choose to label or draw lines on the thumbnail to highlight where the grid structure is • Reverse text must be clear through annotation or use of colour

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3.		<p>Orthographic sketch</p> <p><i>Must be an orthographic sketch in third angle projection.</i></p>	6	<ul style="list-style-type: none"> Elevation and plan orientated correctly using third angle projection (1 mark) All three views sketched in proportion to each other (1 mark) Accurate representation of elevation (excluding hidden detail) (1 mark) Accurate representation of plan (excluding hidden detail) (1 mark) All hidden detail in elevation and plan applied correctly (dashed line) and represents the view correctly (1 mark) Projection method and outline detail in sectional end elevation represents the view correctly (1 mark) 	<ul style="list-style-type: none"> Follow on rule can be applied if candidate has not produced an accurate representation of the elevation/plan Sectional cutting plane does not need to be present. Follow on rule can be applied if candidate has not produced an accurate representation of the elevation/plan.

[END OF MARKING INSTRUCTIONS]