



Higher
Coursework
Assessment Task



Higher Graphic Communication Assignment Finalised Marking instructions

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These marking instructions have been prepared by examination teams for use by SQA appointed markers when marking external course assessments.

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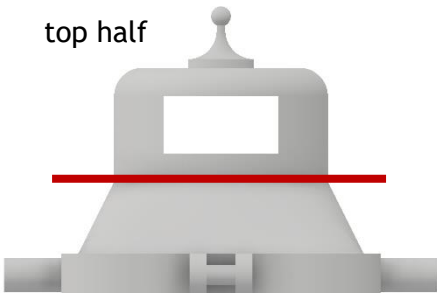
General marking principles

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
1.	(a)	(i)	<p>Related orthographic drawing and sectional view of the cab (part 1)</p> <p><i>Accept wall thickness in the range of 5-6mm</i></p>  <p>top half</p> <p>bottom half</p>	4	<ul style="list-style-type: none"> • Three related views of the cab (part 1) (must be correct orientation) (1 mark) • Correct stepped-sectioning of elevation of the cab (part 1) through the given cutting plane (1 mark) • Accurate modelling of top half of the cab (part 1), excluding shell (1 mark) • Accurate modelling of bottom half of the cab (part 1), including shell (1 mark) <i>Follow-on error if ellipse incorrect size</i>
		(ii)	<p>Related orthographic drawing of the bucket (part 2)</p>	2	<ul style="list-style-type: none"> • Three related views of the bucket (part 2) (must be correct orientation) (1 mark) • Accurate modelling of the bucket (part 2) (1 mark)
		(iii)		3	<ul style="list-style-type: none"> • Accurate hidden detail shown in orthographic views of both components (1 mark) • Appropriate application of scale to both parts, as highlighted in data sheets (1 mark) • Key dimensions given to allow for manufacture (this mark is for recognising important dimensions, not for applying British Standards) (1 mark)

Task		Expected response	Max mark	Additional guidance
1.	(b)	Related orthographic views of assembly	6	<ul style="list-style-type: none"> • Accurate modelling of the wheel (part 3) (1 mark) • Accurate modelling of the hook (part 4) (1 mark) • Correct sectioning through the given cutting planes (1 mark) • Relevant enlargement view showing correct assembly of the cab (part 1) and the wheel (part 4) (1 mark) • Relevant enlargement view showing correct assembly of the cab (part 1) and the hook (part 3) (1 mark) • Angular dimension of 45° displayed on enlargement view (1 mark)

Task		Expected response	Max mark	Additional guidance
1.	(c)	Exploded isometric of assembly	3	<ul style="list-style-type: none"> • Exploded isometric view (1 mark) • Correct alignment and order of components (1 mark) • Correct spacing of components - no overlap (1 mark)
	(d)	<p>Standards and conventions</p> <p><i>Angular dimensions should not be considered here as it is assessed in Task 1b</i></p> <p><i>Task number (e.g. Task 1ai) is not an appropriate title of drawing on its own. Task 1ai - Orthographic of Cab is acceptable.</i></p>	3	<ul style="list-style-type: none"> • Evidence of each type of BS dimensioning has been applied, including: linear, radial and diameter (1 mark) • The templates should include: 3rd angle projection symbol, candidate name, title of drawing, project title, scale, date, all sizes in mm, tolerances (any three, included at least once) (1 mark) • Evidence of views being correctly labelled a minimum of once per view type (elevation, end elevation, plan, section #-#, detail #) (1 mark)

Task		Expected response	Max mark	Additional guidance
2.	(a)	Final copy of three-panel information graphic	12	<ul style="list-style-type: none"> • Correct size (375x100mm) and notice taken of non-copy text area (1 mark) <p><i>Allow scaling tolerance when printing</i></p> <ul style="list-style-type: none"> • Layout includes: <ul style="list-style-type: none"> - company name/logo - a minimum of 1 approved font - colour(s) - 3 or more given/edited images (1 mark) • Correct use of header, headline, extended text and footer (1 mark) • Use of rhythm, balance, texture, proportion, value, emphasis (any two): <ul style="list-style-type: none"> - identifying and justifying correct use of both chosen design principles and elements (2 marks) - identifying and justifying correct use of 1 design principles and element (1 mark) - award 0 marks if candidate has not justified the use of any chosen design principles and elements • All three DTP techniques correctly labelled (1 mark) • Effective use of flow text along a path (1 mark) • Effective use of transparency (1 mark) • Effective use of reverse (1 mark) • Skill and visual impact of layout: <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 some visual impact (2 marks) - Applied with simplistic level of skill, providing limited visual impact (1 marks) - Applied with basic level of skill, providing no visual impact (0 marks)

Task		Expected response	Max mark	Additional guidance
2.	(b)	Rendered pictorial illustration	9	<ul style="list-style-type: none"> • Launch pad and moon texture graphic applied correctly to surface (1 mark) • Dune digger toy and all STEP files included, placed in correct position, suitably scaled relative to each other (dune digger toy and STEP files must be sited on surface and not floating) (1 mark) • A range of materials/colours applied to STEP files and dune digger toy, taking notice of specification list (1 mark) • Material/colour choice appropriate to create effective scene (1 mark) • Correct viewpoints and scaled to full page in both rendered views (1 mark) • Application of appropriate lighting, highlights and shadows: <ul style="list-style-type: none"> - Skilled application in rendered view(s) (2 marks) - Good application in rendered view(s) (1 mark) - Limited application in rendered view(s) (0 marks) • Render output quality: <ul style="list-style-type: none"> - High level of clarity with no pixelation or grain visible in rendered view(s) (2 marks) - Good level of clarity with some pixelation or grain visible in rendered view(s) (1 mark) - Poor clarity with significant pixelation or grain visible in rendered view(s) (0 marks)

Task		Expected response	Max mark	Additional guidance
3.	(a)	Pictorial sketch <i>Must be a pictorial sketch or no marks can be awarded</i>	4	<ul style="list-style-type: none"> • Parts are sketched in proportion to each other and correctly aligned (1 mark) • Accurate representation of cuboid and sphere (1 mark) • Accurate representation of central cut cylinder (1 mark) • Accurate representation of feet (1 mark)
	(b)	Orthographic sketch <i>Must be an orthographic sketch or no marks can be awarded</i>	4	<ul style="list-style-type: none"> • Views sketched proportionally to each other and correctly projected (1 mark) • Accurate representation of cut cylinder and octagon across 3 views (1 mark) • Accurate representation of central cylinder and feet across 3 views (1 mark) • Correct hidden detail and centre lines included across 3 views (1 mark)

[END OF MARKING INSTRUCTIONS]