

OCR Level 1/Level 2 Cambridge National in Engineering Design

Qualification J822

Unit R039

Unit Recording Sheet

Please read the instructions printed at the end of this form. A Unit Recording Sheet must be completed for each candidate and unit.										
Unit Title	Communicating designs				Unit Code	R039	Session		Year	2 0
Scenario Title										
Centre Name							Centre Number			
Candidate Name							Candidate Number			
Marking Criteria							Teacher Comments	Mark	Page No.	
Task 1 – Topic Area 1: Manual production of freehand sketches										
MB1: 1 - 4 marks		MB2: 5 - 8 marks		MB3: 9 - 12 marks						
Produces a limited range of creative freehand design proposals. Limited consideration of the design specification. Uses a basic range of techniques. <div style="text-align: right;">[1 2 3 4]</div>		Produces an adequate range of creative freehand design proposals. Partial consideration of the design specification. Uses an adequate range of techniques. <div style="text-align: right;">[5 6 7 8]</div>		Produces a wide range of creative and innovative freehand design proposals. Fully considers the design specification. Uses a comprehensive range of techniques. <div style="text-align: right;">[9 10 11 12]</div>						
								/12		

Marking Criteria			Teacher Comments	Mark	Page No.
Task 1 (continued) – Topic Area 1: Manual production of freehand sketches					
MB1: 1 - 2 marks	MB2: 3 - 4 marks	MB3: 5 - 6 marks			
<p>Evidence of analysis of design proposals with limited annotation.</p> <p>Justification demonstrates limited understanding of needs and wants of the client/user.</p> <p style="text-align: right;">[1 2]</p>	<p>Evidence of analysis of design proposals, with some annotation.</p> <p>Justification demonstrating some understanding of needs and wants of the client/user.</p> <p style="text-align: right;">[3 4]</p>	<p>Extensive evidence of analysis of design proposals that are fully annotated.</p> <p>Justification demonstrating a detailed understanding of needs and wants of the client/user.</p> <p style="text-align: right;">[5 6]</p>		/6	

Marking Criteria			Teacher Comments	Mark	Page No.
Task 2 – Topic Area 1: Manual production of freehand sketches – Design Development					
MB1: 1 - 4 marks	MB2: 5 - 8 marks	MB3: 9- 12 marks			
<p>Produces a basic freehand sketch of design proposal.</p> <p>Brief explanation of the key features of a design proposal with limited annotation.</p> <p>Limited consideration of the design specification.</p> <p style="text-align: right;">[1 2 3 4]</p>	<p>Produces adequate freehand sketches of design proposal.</p> <p>Adequate explanation of the key features of a design proposal with some annotation.</p> <p>Some consideration of the design specification.</p> <p style="text-align: right;">[5 6 7 8]</p>	<p>Produces comprehensive freehand sketches of design proposal.</p> <p>Detailed explanation of the key features of a design proposal that is fully annotated.</p> <p>Fully considers the design specification.</p> <p style="text-align: right;">[9 10 11 12]</p>		/12	

Marking Criteria			Teacher Comments	Mark	Page No.
Task 3 – Topic Area 2: Production of engineering drawings					
MB1: 1 - 4 marks	MB2: 5 - 8 marks	MB3: 9- 12 marks			
Produces a basic orthographic drawing. Produces an assembly drawing that is limited in detail. <div>[1 2 3 4]</div>	Produces an adequate and accurate orthographic drawing. Produces an assembly drawing with some detail. <div>[5 6 7 8]</div>	Produces a comprehensive orthographic drawing. Produces a fully detailed assembly drawing. <div>[9 10 11 12]</div>			
				/12	

Marking Criteria			Teacher Comments	Mark	Page No.
Task 4 – Topic Area 3: Use of Computer Aided Design (CAD)					
MB1: 1 - 6 marks	MB2: 7 - 12 marks	MB3: 13- 18 marks			
Use of CAD to produce a simple model of the design proposal. A simple 3D virtual model consisting of a very limited number of components. [1 2 3 4 5 6]	Use of CAD to produce an adequate model of the design proposal. An adequate 3D virtual model consisting of some components. [7 8 9 10 11 12]	Use of CAD to produce a complex model of the design proposal. A detailed 3D virtual model consisting of many components. [13 14 15 16 17 18]			
Total				/60	

Please tick to confirm this work has been standardised internally	
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Please note: This form may be updated on an annual basis. The current version of this form will be available on the OCR website (www.ocr.org.uk).

A Centre Authentication form (CCS160) **must** be completed for each submission to the moderator. This **must** be held in your centre to be available on request at centre inspection.

Guidance on Completion of this Form

- One form should be used for every candidate.
- Please make sure that all parts of the form are completed.
- Please enter specific page numbers where evidence can be found in the portfolio, and where possible, indicate to which part of the text in the mark band the evidence relates.
- Circle/highlight the mark awarded for each strand of the marking criteria in the appropriate box.
- Enter the circled/highlighted mark in the 'Mark' column.
- Add the marks for the strands together to give a total out of 60. Enter this total in the relevant box.
- For Paper-based submissions, one of these sheets, suitably completed, should be attached to the assessed work of each candidate.
- For Electronic Internal submissions, prior to submitting 'candidate evidence' to OCR (via the Repository/SfA or via a USB), the Centre should add a separate folder containing the Unit Recording Sheets.