

Please read the instructions printed at the end of this form. One of these sheets, suitably completed, should be attached to the assessed work of each candidate.

<b>Unit Title</b>	<b>Developing and presenting engineering designs</b>	<b>Unit Code</b>	<b>R107</b>	Series Jan / June	<b>Year</b>	<b>2</b>	<b>0</b>		
<b>Centre Name</b>				<b>Centre Number</b>					
<b>Candidate Name</b>				<b>Candidate Number</b>					

### Marking Criteria – Total Marks for this unit is 60

Mark Band 1	Mark Band 2	Mark Band 3	Teacher Comment	Page
<b>LO1: Be able to generate design proposals using a range of techniques</b>				
<p>Requires <b>regular</b> assistance to produce sketches in 2D and 3D. Sketches have <b>limited</b> accuracy.</p> <p>Designs include <b>few</b> details of shade, tone and texture.</p> <p style="text-align: right;"><b>1 – 4 marks</b></p>	<p>Works competently with <b>occasional</b> assistance to produce sketches in 2D and 3D that are <b>mostly</b> accurate.</p> <p>Designs include <b>a range of mostly</b> appropriate rendering techniques using shade, tone and texture.</p> <p style="text-align: right;"><b>5 – 8 marks</b></p>	<p>Works <b>independently</b> and competent to <b>accurately</b> produce sketches in 2D and 3D.</p> <p>Designs include <b>a wide range of</b> appropriate rendering techniques using shade, tone and texture.</p> <p style="text-align: right;"><b>9 – 12 marks</b></p>	<div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto;">Mark</div>	
<p>Demonstrates design ideas by using a <b>limited</b> range of annotation and labelling with <b>basic</b> detail.</p> <p>Uses IT software to produce and modify design proposals with <b>limited</b> detail.</p> <p>Draws upon <b>limited</b> skills/knowledge/ understanding from other units in the specification.</p> <p style="text-align: right;"><b>1 – 6 marks</b></p>	<p>Demonstrates design ideas by using a <b>range</b> of annotation and labelling with <b>some</b> detail.</p> <p>Uses IT software to produce, modify and enrich design proposals with <b>some</b> detail.</p> <p>Draws upon <b>some</b> relevant skills/knowledge/ understanding from other units in the specification.</p> <p style="text-align: right;"><b>7 – 12 marks</b></p>	<p>Demonstrates design ideas by using a <b>wide</b> range of <b>detailed</b> annotation and labelling.</p> <p>Uses IT software to produce, modify and enrich design proposals with <b>appropriate</b> detail.</p> <p><b>Clearly</b> draws upon <b>relevant</b> skills/knowledge/ understanding from other units in the specification</p> <p style="text-align: right;"><b>13 – 18 marks</b></p>	<div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto;">Mark</div>	

LO2: Know how to develop designs using engineering drawing techniques and annotations					Teacher Comment	Page
Produces some superficial 2D and 3D engineering drawings, with <b>limited</b> use of labelling techniques and annotations.	Develops 2D and 3D engineering drawings with <b>some detail</b> and <b>accuracy</b> . Uses <b>mostly appropriate</b> labelling techniques and annotations.	Develops <b>detailed</b> and <b>comprehensive</b> 2D and 3D engineering drawings, <b>accurately</b> using <b>appropriate</b> labelling techniques and annotations.			Mark	
1 – 4 marks	5 – 8 marks	9 – 12 marks				
LO3: Be able to use Computer Aided Design (CAD) software and techniques to produce and communicate design proposals					Mark	
Requires regular assistance to use CAD applications. Produces <b>basic</b> design proposals.	Works competently with <b>occasional</b> assistance to produce design proposals using CAD applications.	Works independently and competently to produce <b>comprehensive</b> design proposals using CAD applications.				
Communication of design proposals is <b>limited</b> .	Communicates design proposals with <b>some effectiveness</b> .	<b>Effectively</b> communicates design proposals.				
1 – 6 marks	7 – 12 marks	13 – 18 marks				
<b>Total/60</b>						
If this work is a re-sit, please tick	Session and Year of previous submission	Jan / June	<b>2</b>	<b>0</b>	Please tick to indicate this work has been standardised internally	

### Guidance on Completion of this Form

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](http://www.ocr.org.uk)).

### Guidance on Completion of this Form

- 1 **One** sheet should be used for each candidate.
- 2 Please ensure that the appropriate boxes at the top of the form are completed.
- 3 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.
- 4 Circle the mark awarded for each strand of the marking criteria in the appropriate box and enter the circled mark in the final column.
- 5 Add the marks for the strands together to give a total out of 60 Enter this total in the relevant box.