

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>3D design realisation</b>	<b>Unit Code</b>	<b>R108</b>	Series		Year	
<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: Know how to plan the making of a prototype</b>				
Produces a <b>limited</b> interpretation of product specification.  <p style="text-align: center;"><b>1 – 2 marks</b></p>	Produces an <b>appropriate</b> interpretation of product specification.  <p style="text-align: center;"><b>3 – 4 marks</b></p>	Produces a <b>detailed and appropriate</b> interpretation of product specification.  <p style="text-align: center;"><b>5 – 6 marks</b></p>	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;">Mark</div>	
<b>Basically</b> describes <b>some</b> planning stages to be used in the making of a prototype, demonstrating <b>limited</b> knowledge of key considerations.  <p style="text-align: center;"><b>1 – 3 marks</b></p>	<b>Adequately</b> describes <b>most</b> planning stages to be used in the making of a prototype, demonstrating <b>some</b> knowledge of key considerations.  <p style="text-align: center;"><b>4 – 6 marks</b></p>	<b>Comprehensively</b> describes each planning stage to be used in the making of a prototype, demonstrating <b>thorough</b> knowledge of key considerations.  <p style="text-align: center;"><b>7 – 9 marks.</b></p>	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;">Mark</div>	

LO2: Understand safe working practices used when making a prototype			Teacher Comment	Page
<p>Shows <b>limited understanding</b> of safety considerations and requires <b>regular</b> assistance to produce and use a suitable risk assessment in relation to their production plan.</p> <p>Requires <b>regular</b> assistance to use a range of hand tools and machines safely and to apply their risk assessment to assess potential hazards and take appropriate precautions.</p> <p>Requires <b>regular</b> prompting to use PPE appropriately when working with tools, machines, material, chemicals, finishes and solvents.</p> <p>Draws upon <b>limited</b> skills/knowledge/ understanding from other units in the specification.</p> <p style="text-align: right;"><b>1 – 5 marks</b></p>	<p>Shows <b>some understanding</b> of safety considerations and requires <b>occasional</b> assistance to produce and use a suitable risk assessment in relation to their production plan.</p> <p>Requires <b>occasional</b> assistance to use a range of hand tools and machines safely and to apply their risk assessment to assess potential hazards and take appropriate precautions.</p> <p>Requires <b>occasional</b> prompting to use PPE appropriately when working with tools, machines, material, chemicals, finishes and solvents.</p> <p>Draws upon <b>some</b> relevant skills/knowledge/ understanding from other units in the specification.</p> <p style="text-align: right;"><b>6 – 9 marks</b></p>	<p>Shows <b>thorough understanding</b> of safety considerations and <b>independently</b> produces and uses a suitable risk assessment in relation to their production plan.</p> <p><b>Independently</b> uses a range of hand tools and machines safely, applying their risk assessment to assess potential hazards and take appropriate precautions.</p> <p><b>Independently</b> uses appropriate PPE when working with tools, machines, material, chemicals, finishes and solvents.</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>10 – 15 marks</b></p>	<div style="border: 1px solid black; padding: 5px; width: 50px; margin: 0 auto;">Mark</div>	
LO3: Produce a prototype				
<p>Requires <b>regular assistance</b> to produce a prototype from a production plan.</p> <p>Selects <b>few</b> appropriate materials to produce the prototype.</p> <p>Uses tools and processes with <b>limited effectiveness</b> to produce and assemble an outcome that <b>partly</b> meets the production plan.</p> <p>Produces a <b>limited</b> record of the key stages of making the prototype.</p> <p style="text-align: right;"><b>1 – 6 marks</b></p>	<p>Requires <b>occasional assistance</b> to produce a prototype from a production plan.</p> <p>Selects <b>some</b> appropriate materials to produce the prototype.</p> <p>Uses tools and processes with <b>some effectiveness</b> to produce and assemble an outcome that <b>mostly</b> meets the production plan.</p> <p>Uses <b>appropriate</b> methods to <b>adequately</b> record <b>most</b> of the key stages of making the prototype.</p> <p style="text-align: right;"><b>7 – 12 marks</b></p>	<p><b>Independently</b> produces a prototype from a production plan.</p> <p>Selects <b>the most appropriate</b> materials to produce the prototype.</p> <p>Uses tools and processes <b>effectively</b> to produce and assemble an outcome that <b>fully</b> meets the production plan.</p> <p>Uses <b>appropriate</b> methods to record in <b>detail all</b> of the key stages of making the prototype.</p> <p style="text-align: right;"><b>13 – 18 marks</b></p>	<div style="border: 1px solid black; padding: 5px; width: 50px; margin: 0 auto;">Mark</div>	

LO4: Be able to evaluate the success of a prototype			Teacher Comment	Page
<p>Produces a <b>limited</b> evaluation of the production plan and prototype which compares the outcome against the product specification.</p> <p>Makes <b>limited</b> suggestions for potential improvements.</p> <p>Shows a <b>limited</b> understanding of strengths and weaknesses in their own performance.</p> <p style="text-align: right;"><b>1 – 4 marks</b></p>	<p>Produces a <b>detailed</b> evaluation of the production plan and prototype which compares the outcome against the product specification.</p> <p>Considers <b>some</b> relevant potential improvements.</p> <p>Assesses own performance in realising the design, demonstrating <b>some</b> understanding of their own strengths and weaknesses.</p> <p style="text-align: right;"><b>5 – 8 marks</b></p>	<p>Produces a <b>detailed</b> and comprehensive evaluation of the production plan and prototype which compares the outcome against the product specification.</p> <p><b>Fully</b> considers potential improvements, justifying any suggestions made.</p> <p><b>Comprehensively</b> assesses own performance in realising the design, demonstrating a <b>clear</b> understanding of their own strengths and weaknesses.</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; display: flex; align-items: center; justify-content: center;"> <b>Mark</b> </div>	
<b>Total/60</b>				
If this work is a re-sit, please tick		Session and Year of previous submission	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.