

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.

Unit Title	3D design realisation	Unit Code	R108	Series Jan / June	Year	2	0		
Centre Name					Centre Number				
Candidate Name					Candidate Number				

Marking Criteria – Total Marks for this unit is 60

Mark Band 1	Mark Band 2	Mark Band 3	Teacher Comment	Page
LO1: Know how to plan the making of a prototype				
Produces a limited interpretation of product specification. <p style="text-align: center;">1 – 2 marks</p>	Produces an appropriate interpretation of product specification. <p style="text-align: center;">3 – 4 marks</p>	Produces a detailed and appropriate interpretation of product specification. <p style="text-align: center;">5 – 6 marks</p>	<div style="border: 1px solid black; width: 50px; height: 50px; margin: 0 auto;">Mark</div>	
Basically describes some planning stages to be used in the making of a prototype, demonstrating limited knowledge of key considerations. <p style="text-align: center;">1 – 3 marks</p>	Adequately describes most planning stages to be used in the making of a prototype, demonstrating some knowledge of key considerations. <p style="text-align: center;">4 – 6 marks</p>	Comprehensively describes each planning stage to be used in the making of a prototype, demonstrating thorough knowledge of key considerations. <p style="text-align: center;">7 – 9 marks.</p>	<div style="border: 1px solid black; width: 50px; height: 50px; margin: 0 auto;">Mark</div>	

LO2: Understand safe working practices used when making a prototype			Teacher Comment	Page
<p>Shows limited understanding of safety considerations and requires regular assistance to produce and use a suitable risk assessment in relation to their production plan.</p> <p>Requires regular 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 regular prompting to use PPE appropriately when working with tools, machines, material, chemicals, finishes and solvents.</p> <p>Draws upon limited skills/knowledge/ understanding from other units in the specification.</p> <p style="text-align: right;">1 – 5 marks</p>	<p>Shows some understanding of safety considerations and requires occasional assistance to produce and use a suitable risk assessment in relation to their production plan.</p> <p>Requires occasional 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 occasional prompting to use PPE appropriately when working with tools, machines, material, chemicals, finishes and solvents.</p> <p>Draws upon some relevant skills/knowledge/ understanding from other units in the specification.</p> <p style="text-align: right;">6 – 9 marks</p>	<p>Shows thorough understanding of safety considerations and independently produces and uses a suitable risk assessment in relation to their production plan.</p> <p>Independently uses a range of hand tools and machines safely, applying their risk assessment to assess potential hazards and take appropriate precautions.</p> <p>Independently uses appropriate PPE when working with tools, machines, material, chemicals, finishes and solvents.</p> <p>Clearly draws upon relevant skills/knowledge/ understanding from other units in the specification.</p> <p style="text-align: right;">10 – 15 marks</p>	<div style="border: 1px solid black; padding: 5px; width: 50px; margin: 0 auto;">Mark</div>	
LO3: Produce a prototype				
<p>Requires regular assistance to produce a prototype from a production plan.</p> <p>Selects few appropriate materials to produce the prototype.</p> <p>Uses tools and processes with limited effectiveness to produce and assemble an outcome that partly meets the production plan.</p> <p>Produces a limited record of the key stages of making the prototype.</p> <p style="text-align: right;">1 – 6 marks</p>	<p>Requires occasional assistance to produce a prototype from a production plan.</p> <p>Selects some appropriate materials to produce the prototype.</p> <p>Uses tools and processes with some effectiveness to produce and assemble an outcome that mostly meets the production plan.</p> <p>Uses appropriate methods to adequately record most of the key stages of making the prototype.</p> <p style="text-align: right;">7 – 12 marks</p>	<p>Independently produces a prototype from a production plan.</p> <p>Selects the most appropriate materials to produce the prototype.</p> <p>Uses tools and processes effectively to produce and assemble an outcome that fully meets the production plan.</p> <p>Uses appropriate methods to record in detail all of the key stages of making the prototype.</p> <p style="text-align: right;">13 – 18 marks</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 limited evaluation of the production plan and prototype which compares the outcome against the product specification.</p> <p>Makes limited suggestions for potential improvements.</p> <p>Shows a limited understanding of strengths and weaknesses in their own performance.</p> <p style="text-align: right;">1 – 4 marks</p>	<p>Produces a detailed evaluation of the production plan and prototype which compares the outcome against the product specification.</p> <p>Considers some relevant potential improvements.</p> <p>Assesses own performance in realising the design, demonstrating some understanding of their own strengths and weaknesses.</p> <p style="text-align: right;">5 – 8 marks</p>	<p>Produces a detailed and comprehensive evaluation of the production plan and prototype which compares the outcome against the product specification.</p> <p>Fully considers potential improvements, justifying any suggestions made.</p> <p>Comprehensively assesses own performance in realising the design, demonstrating a clear understanding of their own strengths and weaknesses.</p> <p style="text-align: right;">9 – 12 marks</p>	<div style="border: 1px solid black; padding: 10px; width: 60px; margin: 0 auto;">Mark</div>			
Total/60						
If this work is a re-sit, please tick		Session and Year of previous submission	Jan / June	2 0		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).

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.