

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	Product analysis and research	Unit Code	R106	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 commercial production methods, quality and legislation impact on the design of products and components				
<p>Demonstrates limited knowledge of how commercial production methods and manufacturing processes impact on product/component design.</p> <p>Basic description of how product end of life considerations can influence product/component design.</p> <p>Demonstrates a limited knowledge of the importance of conformity to legislation and standards</p> <p style="text-align: right;">1 – 4 marks</p>	<p>Demonstrates some knowledge of how commercial production methods and manufacturing processes impact on product/component design.</p> <p>Describes in some detail how product end of life considerations can influence product/component design.</p> <p>Demonstrates a sound knowledge of the importance of conformity to legislation and standards</p> <p style="text-align: right;">5 – 8 marks</p>	<p>Demonstrates detailed knowledge of how commercial production methods and manufacturing processes impact on product/component design.</p> <p>Comprehensively describes how product end of life considerations can influence product/component design.</p> <p>Demonstrates detailed knowledge of the importance of conformity legislation and standards</p> <p style="text-align: right;">9 – 12 marks</p>	<div style="border: 1px solid black; width: 60px; height: 60px; margin: auto;">Mark</div>	
LO2: Be able to research existing products				
<p>Provides a basic description of strengths and weaknesses of existing products.</p> <p>Uses few appropriate methods to provide a brief summary of research of existing products.</p> <p style="text-align: right;">1 – 6 marks</p>	<p>Provides an adequate description of strengths and weaknesses of existing products.</p> <p>Uses some appropriate methods to provide a detailed summary of research of existing products.</p> <p style="text-align: right;">7 – 12 marks</p>	<p>Provides a comprehensive description of strengths and weaknesses of existing products.</p> <p>Uses appropriate methods to provide a comprehensive and detailed summary of research of existing products.</p> <p style="text-align: right;">13 – 18 marks</p>	<div style="border: 1px solid black; width: 60px; height: 60px; margin: auto;">Mark</div>	

LO3: Be able to analyse an existing product through disassembly					Teacher Comment	Page
<p>Requires regular assistance to follow manufacturer's instructions/manual /disassembly procedure. Requires prompting to follow special instructions.</p> <p>With guidance uses tools and equipment safely and shows limited awareness of potential hazards and safety considerations.</p> <p>Draws upon limited skills/knowledge/ understanding from other units in the specification (Unit R105).</p> <p style="text-align: right;">1 – 6 marks</p>	<p>Works competently with occasional assistance to follow manufacturer's instructions/manual/disassembly procedure, mostly adhering to special instructions.</p> <p>Uses tools and equipment effectively and shows some understanding of potential hazards and safety considerations.</p> <p>Draws upon some relevant skills/knowledge/ understanding from other units in the specification (Unit R105).</p> <p style="text-align: right;">7 – 12 marks</p>	<p>Works independently and competently to follow manufacturer's instructions/manual /disassembly procedure, adhering to special instructions.</p> <p>Uses tools and equipment effectively and shows a well-developed understanding of potential hazards and safety considerations.</p> <p>Clearly draws upon relevant skills/knowledge/ understanding from other units in the specification (Unit R105).</p> <p style="text-align: right;">13 – 18 marks</p>	<div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> Mark </div>			
<p>Carries out a limited analysis of an existing product showing a basic understanding of some components, assembly methods, materials, production methods and maintenance.</p> <p style="text-align: right;">1 – 4 marks</p>	<p>Carries out a detailed analysis of an existing product showing an adequate understanding of components, assembly methods, materials, production methods and maintenance.</p> <p style="text-align: right;">5 – 8 marks</p>	<p>Carries out a comprehensive analysis of an existing product showing a well-developed understanding of components, assembly methods, materials, production methods and maintenance.</p> <p style="text-align: right;">9 –12 marks</p>	<div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> 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.