

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	Sustainable engineering	Unit Code	R103	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 about the sustainability of engineering materials and products				
<p>Basic description of the sustainability of different types of materials used in engineered products.</p> <p style="text-align: center;">1 – 4 marks</p>	<p>Describes in some detail the sustainability of different types of materials used in engineered products.</p> <p style="text-align: center;">5 – 8 marks</p>	<p>Describes in detail the sustainability of different types of materials used in engineered products.</p> <p style="text-align: center;">9 – 12 marks</p>	<div style="border: 1px solid black; width: 60px; height: 40px; margin: 0 auto;">Mark</div>	
<p>Demonstrates a basic knowledge of some environmental considerations which affect the sustainability of engineered products, using few examples of engineered products.</p> <p style="text-align: center;">1 – 6 marks</p>	<p>Demonstrates a detailed knowledge of most environmental considerations which affect the sustainability of engineered products, using a range of examples of engineered products.</p> <p style="text-align: center;">7 – 12 marks</p>	<p>Demonstrates a comprehensive knowledge of all environmental considerations which affect the sustainability of engineered products using a wide range of examples of engineered products.</p> <p style="text-align: center;">13 – 18 marks</p>	<div style="border: 1px solid black; width: 60px; height: 40px; margin: 0 auto;">Mark</div>	

LO2: Know about sustainable design for engineered products			Teacher Comment	Page
<p>Demonstrates a basic knowledge of the sustainable design of engineered products. Uses a limited range of examples to show how sustainability is considered in the design process.</p> <p>Draws upon limited skills/knowledge/understanding from other units in the specification.</p> <p style="text-align: center;">1 – 6 marks</p>	<p>Demonstrates a detailed knowledge of the sustainable design of engineered products. Uses a range of examples to show how sustainability is considered in the design process.</p> <p>Draws upon some relevant skills/knowledge/ understanding from other units in the specification.</p> <p style="text-align: center;">7 – 12 marks</p>	<p>Demonstrates a comprehensive knowledge of the sustainable design of engineered products. Uses a wide range of examples to show how sustainability is considered in the design process.</p> <p>Clearly draws upon relevant skills/knowledge/ understanding from other units in the specification.</p> <p style="text-align: center;">13 – 18 marks</p>	<div style="border: 1px solid black; padding: 5px; width: 50px; margin: 0 auto;">Mark</div>	
LO3: Understand the impact of global manufacturing				
<p>Demonstrates a cursory understanding of the impact of global manufacturing of engineered products.</p> <p>Shows limited appreciation of the impacts of global manufacturing on sustainability, focussing mainly on positive and using few examples.</p> <p style="text-align: center;">1 – 4 marks</p>	<p>Demonstrates a detailed understanding of the impact of global manufacturing of engineered products.</p> <p>Shows some appreciation of both positive and negative impacts of global manufacturing on sustainability, using some examples.</p> <p style="text-align: center;">5 – 8 marks</p>	<p>Demonstrates a comprehensive understanding of the impact of global manufacturing of engineered products.</p> <p>Shows a clear appreciation of both positive and negative impacts of global manufacturing on sustainability, using many examples.</p> <p style="text-align: center;">9 – 12 marks</p>	<div style="border: 1px solid black; padding: 5px; width: 50px; 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.