

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	1A Study of an Engineered Product	Unit Code	A621	Series	June	Year	2	0				
Centre Name							Centre Number					
Candidate Name							Candidate Number					

Unit A621 1A Study of an Engineered Product:			For the engineered products studied the candidate:		
Marking Criteria – total mark for this unit is 90			Teacher Comment	Page	
<p>Has basic ability</p> <p>gives a basic description of:</p> <ul style="list-style-type: none"> the impact of modern technologies, smart materials and components on their development; the advantages and disadvantages that the use of modern technology has brought to society. <p style="text-align: right;">[0 1 2 3]</p>	<p>Demonstrates an ability</p> <p>gives a description of:</p> <ul style="list-style-type: none"> the impact of modern technologies, smart materials and components on their development; the advantages and disadvantages that the use of modern technology has brought to society. <p style="text-align: right;">[4 5 6]</p>	<p>Works competently</p> <p>gives a fully detailed description of:</p> <ul style="list-style-type: none"> the impact of modern technologies, smart materials and components on their development; the advantages and disadvantages that the use of modern technology has brought to society. <p style="text-align: right;">[7 8 9]</p>		Mark	
<p>gives a basic explanation of the use of materials and components and some of their:</p> <ul style="list-style-type: none"> properties; characteristics; performance; and cost. <p>There will be little or no use of specialist terms. Answers may be ambiguous or disorganised. Errors of spelling, punctuation and grammar may be intrusive.</p> <p style="text-align: right;">[0 1 2 3]</p>	<p>gives a detailed explanation of the use of materials and components and their:</p> <ul style="list-style-type: none"> properties; characteristics; performance; and cost. <p>There will be some use of specialist terms, although these may not always be used appropriately. The information will be presented for the most part in a structured format. There may be occasional errors in spelling, punctuation and grammar.</p> <p style="text-align: right;">[4 5 6]</p>	<p>gives a fully detailed and justified explanation of the use of materials and components and their:</p> <ul style="list-style-type: none"> properties; characteristics; performance; and cost. <p>Specialist terms will be used appropriately and correctly. The information will be presented in a structured format. The candidate can demonstrate the accurate use of spelling, punctuation and grammar.</p> <p style="text-align: right;">[7 8 9]</p>		Mark	

Unit A621 1A Continued: For the engineered products studied the candidate:				
Marking Criteria – total mark for this unit is 90			Teacher Comment	Page
Has basic ability gives a basic explanation of the: <ul style="list-style-type: none"> • engineering processes used. <p style="text-align: right;">[0 1 2]</p>	Demonstrates an ability gives a detailed explanation of the: <ul style="list-style-type: none"> • engineering processes used <p style="text-align: right;">[3 4]</p>	Works competently with independence gives a fully detailed and justified explanation of the: <ul style="list-style-type: none"> • engineering processes used <p style="text-align: right;">[5 6]</p>	<div style="border: 1px solid black; width: 60px; height: 40px; margin: 0 auto; text-align: center; line-height: 40px;">Mark</div>	
suggests, with some explanation, limited: <ul style="list-style-type: none"> • modifications to design solutions; • sustainability issues. <p style="text-align: right;">[0 1 2]</p>	suggests and explains: <ul style="list-style-type: none"> • modifications to design solutions; • sustainability issues. <p style="text-align: right;">[3 4]</p>	suggests and explains in detail: <ul style="list-style-type: none"> • modifications to design solutions; • sustainability issues. <p style="text-align: right;">[5 6]</p>		
Unit A621 1B Engineering a Product: Using the Client Design Brief for a engineered product the candidate:				
Marking Criteria – total mark for this unit is 90			Teacher Comment	Page
provides a basic analysis of the client brief; produces and partially applies a design specification. <p style="text-align: right;">[0 1 2 3]</p>	provides an analysis of the client brief; produces and applies a design specification. <p style="text-align: right;">[4 5 6]</p>	provides a detailed and justified analysis of the client brief; produces and fully applies a justified design specification. <p style="text-align: right;">[7 8 9]</p>	<div style="border: 1px solid black; width: 60px; height: 40px; margin: 0 auto; text-align: center; line-height: 40px;">Mark</div>	
develops some design ideas using engineering drawings to current industry standards; presents their selection of design solutions for the engineered product; gives some considered client feedback. <p style="text-align: right;">[0 1 2 3 4 5]</p>	develops a range of annotated design ideas using appropriate engineering drawings to current industry standards; presents and explains their selection of design solution for the engineered product; consider client feedback and responds appropriately. <p style="text-align: right;">[6 7 8 9 10]</p>	develops a wide range of annotated design ideas using appropriate engineering drawings to current industry standards; presents and fully justifies their selection of design solution for the engineered product; considers client feedback, respond appropriately and justify changes made. <p style="text-align: right;">[11 12 13 14 15]</p>		

Unit A621 1B Engineering Product: Using the Client Design Brief for a engineered product the candidate:						
Marking Criteria – total mark for this unit is 90					Teacher Comment	Page
<p>makes a prototype of the design solution.</p> <p style="text-align: right;">[0 1 2 3 4 5 6]</p>	<p>makes a quality prototype of the design solution.</p> <p style="text-align: right;">[7 8 9 10 11 12]</p>	<p>makes a complete, high quality prototype of the design solution.</p> <p style="text-align: right;">[13 14 15 16 17 18]</p>	<div style="border: 1px solid black; padding: 5px; width: 100px; margin: 0 auto;">Mark</div>			
<p>Has basic ability</p> <p>selects and safely uses appropriate materials, parts and components, processes, tools and equipment;</p> <p>applies some quality control techniques.</p> <p style="text-align: right;">[0 1 2 3]</p>	<p>Demonstrates an ability</p> <p>selects and safely uses a range of appropriate materials, parts and components, processes, tools and equipment;</p> <p>appropriately applies a range of quality control techniques.</p> <p style="text-align: right;">[4 5 6]</p>	<p>Works competently with independence</p> <p>selects and safely uses a wide range of appropriate materials, parts and components, processes, tools and equipment;</p> <p>appropriately applies and details a range of quality control techniques.</p> <p style="text-align: right;">[7 8 9]</p>	<div style="border: 1px solid black; padding: 5px; width: 100px; margin: 0 auto;">Mark</div>			
<p>suggests some modifications to the design solution giving some consideration to the use of modern materials, processes and technologies.</p> <p style="text-align: right;">[0 1 2 3]</p>	<p>suggests modifications to the design solution giving consideration to the use of modern materials, processes and technologies.</p> <p style="text-align: right;">[4 5 6]</p>	<p>suggests detailed and justified modifications to the design solution giving consideration to the use of modern materials, processes and technologies.</p> <p style="text-align: right;">[7 8 9]</p>	<div style="border: 1px solid black; padding: 5px; width: 100px; margin: 0 auto;">Mark</div>			
Total/ 90						
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 90 Enter this total in the relevant box.