

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	3A Real World Engineering	Unit Code	A623	Series	Year
Centre Name				Centre Number	
Candidate Name				Candidate Number	

Unit A623 3A Real World Engineering For the engineered products the candidate:

Marking Criteria – total mark for this unit is 90

Marking Criteria – total mark for this unit is 90			Teacher Comment	Page
<p>Has basic ability, gives a basic explanation of most stages in engineering the product. [0 1 2]</p>	<p>Demonstrates an ability identifies and explains the stages in engineering the product. [3 4]</p>	<p>Works competently identifies and fully explains all the stages in engineering the product. [5 6]</p>	<div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto; text-align: center;">Mark</div>	
<p>a basic outline of the engineering processes and quality control techniques used to produce the product. [0 1 2]</p>	<p>identifies and explains the engineering processes and quality control techniques used to produce the product. [3 4]</p>	<p>identifies and fully explains the engineering processes and quality control techniques used to produce the product. [5 6]</p>		
<p>gives limited consideration to the product with some detail of materials and components and their: • functions; • properties; and • characteristics. [0 1 2]</p>	<p>considers the identified product, giving detail of materials and components and their: • functions; • properties; and • characteristics. [3 4]</p>	<p>fully considers the identified product giving detail and justifying all materials and components and their: • functions; • properties; and • characteristics. [5 6]</p>		
<p>gives a basic explanation of some of the systems and control technology, to organise, monitor and control production of the product. [0 1 2]</p>	<p>identifies and explains systems and control technology, to organise, monitor and control production of the product. [3 4]</p>	<p>identifies and fully explains systems and control technology, to organise, monitor and control production of the product. [5 6]</p>		
<p>gives a basic explanation of the impact of modern technologies when engineering the product. [0 1 2]</p>	<p>identifies and explains the impact of modern technologies when engineering the product. [3 4]</p>	<p>identifies and fully explains the impact of modern technologies when engineering the product. [5 6]</p>		

Unit A623 3B Making an Engineered Product			For the engineering product made the candidate:	
Marking Criteria – total mark for this unit is 90			Teacher Comment	Page
<p>Has basic ability, show deficiency produces and refers to a basic production plan.</p> <p style="text-align: right;">[0 1 2 3 4]</p>	<p>Demonstrates an ability produces and applies a production plan.</p> <p style="text-align: right;">[5 6 7 8]</p>	<p>Works competently with independence produces and fully applies a detailed production plan.</p> <p style="text-align: right;">[9 10 11 12]</p>	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;">Mark</div>	
<p>makes a prototype of the engineered product.</p> <p style="text-align: right;">[0 1 2 3 4 5 6]</p>	<p>makes a quality prototype of the engineered product.</p> <p style="text-align: right;">[7 8 9 10 11 12]</p>	<p>makes a complete, high-quality prototype of the engineered product.</p> <p style="text-align: right;">[13 14 15 16 17 18]</p>	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;">Mark</div>	
<p>selects and uses:</p> <ul style="list-style-type: none"> • processes; • materials; • parts; • components; • tools; and • equipment. <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 4]</p>	<p>selects, uses and explains the use of appropriate:</p> <ul style="list-style-type: none"> • processes; • materials; • parts; • components; • tools; and • equipment. <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;">[5 6 7 8]</p>	<p>selects, uses and justifies the use of a wide range of appropriate:</p> <ul style="list-style-type: none"> • processes; • materials; • parts; • components; • tools; and • equipment. <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;">[9 10 11 12]</p>	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;">Mark</div>	

Unit A623 3B Making an Engineered Product		For the engineering product made the candidate:		Teacher Comment	Page
Marking Criteria – total mark for this unit is 90					
Has basic ability, show deficiency gives limited detail of their individual application of: <ul style="list-style-type: none"> health and safety procedures; and quality control techniques. <p style="text-align: right;">[0 1 2 3]</p>	Demonstrates an ability details their individual application of: <ul style="list-style-type: none"> health and safety procedures; and quality control techniques. <p style="text-align: right;">[4 5 6]</p>	Works competently with independence fully details their individual application of: <ul style="list-style-type: none"> health and safety procedures; and quality control techniques. <p style="text-align: right;">[7 8 9]</p>		<div style="border: 1px solid black; width: 40px; height: 30px; margin: 0 auto;">Mark</div>	
gives some analysis and revision of the completed product, stating how or why it could be improved. <p style="text-align: right;">[0 1 2 3]</p>	analyses and revises the completed product, explaining how and why it could be improved. <p style="text-align: right;">[4 5 6]</p>	detailed analysis and revision of the completed product, fully explaining how and why it could be improved. <p style="text-align: right;">[7 8 9]</p>		<div style="border: 1px solid black; width: 40px; height: 30px; margin: 0 auto;">Mark</div>	
				Total/ 90	
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).
Please complete one *Centre Authentication Form* (CCS160) for each unit and forward to the moderator with your sample.

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.