

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.

|                       |                                    |                  |      |                         |             |   |   |  |  |
|-----------------------|------------------------------------|------------------|------|-------------------------|-------------|---|---|--|--|
| <b>Unit Title</b>     | 1A Study of a Manufactured Product | <b>Unit Code</b> | B231 | Season Jan / June       | <b>Year</b> | 2 | 0 |  |  |
| <b>Centre Name</b>    |                                    |                  |      | <b>Centre Number</b>    |             |   |   |  |  |
| <b>Candidate Name</b> |                                    |                  |      | <b>Candidate Number</b> |             |   |   |  |  |

**Unit B231 1A Study of a Manufactured Product** For the manufactured products studied the candidate:

| Marking Criteria – total mark for this unit is 90   |  |   | Teacher Comment  | Page |
|---|--|---|--|------|
| <p><b>Has basic ability, show deficiency</b><br/>gives a basic description of:</p> <ul style="list-style-type: none"> <li>• the impact of modern technologies, smart materials and components on their development;</li> <li>• the advantages and disadvantages that the use of modern technology has brought to society.</li> </ul> <p style="text-align: right;"><b>[0 1 2 3]</b></p> | <p><b>Demonstrates an ability</b><br/>gives a description of:</p> <ul style="list-style-type: none"> <li>• the impact of modern technologies, smart materials and components on their development;</li> <li>• the advantages and disadvantages that the use of modern technology has brought to society.</li> </ul> <p style="text-align: right;"><b>[4 5 6]</b></p> | <p><b>Works competently with independence</b><br/>gives a fully detailed description of:</p> <ul style="list-style-type: none"> <li>• the impact of modern technologies, smart materials and components on their development;</li> <li>• the advantages and disadvantages that the use of modern technology has brought to society.</li> </ul> <p style="text-align: right;"><b>[7 8 9]</b></p> | <div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <p style="margin: 0;">Mark</p> </div> |      |
| <p>gives a basic explanation of the use of materials and components and some of their:</p> <ul style="list-style-type: none"> <li>• properties;</li> <li>• characteristics;</li> <li>• performance; and</li> <li>• cost.</li> </ul> <p style="text-align: right;"><b>[0 1 2 3]</b></p>  | <p>gives a detailed explanation of the use of materials and components and their:</p> <ul style="list-style-type: none"> <li>• properties;</li> <li>• characteristics;</li> <li>• performance; and</li> <li>• cost.</li> </ul> <p style="text-align: right;"><b>[4 5 6]</b></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"> <li>• properties;</li> <li>• characteristics;</li> <li>• performance; and</li> <li>• cost.</li> </ul> <p style="text-align: right;"><b>[7 8 9]</b></p>   | <div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <p style="margin: 0;">Mark</p> </div> |      |
| <p>gives a basic explanation of the:</p> <ul style="list-style-type: none"> <li>• manufacturing processes used.</li> </ul> <p style="text-align: right;"><b>[0 1 2]</b></p>   | <p>gives a detailed explanation of the:</p> <ul style="list-style-type: none"> <li>• manufacturing processes used.</li> </ul> <p style="text-align: right;"><b>[3 4]</b></p>   | <p>gives a fully detailed and justified explanation of the</p> <ul style="list-style-type: none"> <li>• manufacturing processes used.</li> </ul> <p style="text-align: right;"><b>[5 6]</b></p>   | <div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <p style="margin: 0;">Mark</p> </div> |      |
| <p>suggests, with some explanation, limited:</p> <ul style="list-style-type: none"> <li>• modifications to design solutions;</li> <li>• sustainability issues.</li> </ul> <p style="text-align: right;"><b>[0 1 2]</b></p>  | <p>suggests and explains:</p> <ul style="list-style-type: none"> <li>• modifications to design solutions;</li> <li>• sustainability issues.</li> </ul> <p style="text-align: right;"><b>[3 4]</b></p>  | <p>suggests and explains in detail:</p> <ul style="list-style-type: none"> <li>• modifications to design solutions;</li> <li>• sustainability issues.</li> </ul> <p style="text-align: right;"><b>[5 6]</b></p>   | <div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <p style="margin: 0;">Mark</p> </div> |      |

| Unit B231 1B Manufacturing a Product   |  | Using the Client Design Brief for a manufactured product the candidate:   |   |          |          | Teacher Comment  | Page |
|--|--|---|---|----------|----------|--|------|
| Marking Criteria – total mark for this unit is 90  |  |   |   |          |          |  |      |
| <p><b>Has basic ability, show deficiency</b><br/>provides a basic analysis of the client brief;<br/>produces and partially applies a design specification.</p> <p style="text-align: right;"><b>[0 1 2 3]</b></p>  | <p><b>Demonstrates an ability</b><br/>provides an analysis of the client brief;<br/>produces and applies a design specification.</p> <p style="text-align: right;"><b>[4 5 6]</b></p>  | <p><b>Works competently with independence</b><br/>provides a detailed and justified analysis of the client brief;<br/>produces and fully applies a justified design specification.</p> <p style="text-align: right;"><b>[7 8 9]</b></p>   | <div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <b>Mark</b> </div> |          |          |  |      |
| <p>develops a range of basic annotated design ideas giving some consideration of:</p> <ul style="list-style-type: none"> <li>• materials;</li> <li>• material constraints.</li> </ul> <p>presents, with limited explanation, the selection of design solution for the manufactured product.</p> <p style="text-align: right;"><b>[0 1 2 3 4]</b></p> | <p>develops a range of annotated design ideas considering:</p> <ul style="list-style-type: none"> <li>• materials;</li> <li>• material constraints.</li> </ul> <p>presents and explains the selection of design solution for the manufactured product</p> <p style="text-align: right;"><b>[5 6 7 8]</b></p> | <p>develops a wide range of annotated design ideas fully considering:</p> <ul style="list-style-type: none"> <li>• materials;</li> <li>• material constraints;</li> </ul> <p>presents and fully justifies the selection of a design solution for the manufactured product.</p> <p style="text-align: right;"><b>[9 10 11 12]</b></p>        | <div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <b>Mark</b> </div> |          |          |  |      |
| <p>makes a prototype of the design solution.</p> <p style="text-align: right;"><b>[0 1 2 3 4 5 6]</b></p>  | <p>makes a complete, quality prototype of the design solution.</p> <p style="text-align: right;"><b>[7 8 9 10 11 12]</b></p>   | <p>makes a complete, high quality prototype of the design solution.</p> <p style="text-align: right;"><b>[13 14 15 16 17 18]</b></p>  | <div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <b>Mark</b> </div> |          |          |  |      |
| <p>safely uses a limited range of materials, parts and components, processes, tools and equipment.</p> <p style="text-align: right;"><b>[0 1 2 3]</b></p>  | <p>selects and safely uses an appropriate range of materials, parts and components, processes, tools and equipment.</p> <p style="text-align: right;"><b>[4 5 6]</b></p>   | <p>selects and safely uses a wide range of appropriate materials, parts and components, processes, tools and equipment.</p> <p style="text-align: right;"><b>[7 8 9]</b></p>  | <div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <b>Mark</b> </div> |          |          |  |      |
| <p>suggests basic modifications to the design solution and original specification giving consideration to the use of modern materials, processes and technologies;</p> <p>gives a basic explanation of how the product could be batch produced.</p> <p style="text-align: right;"><b>[0 1 2 3 4]</b></p>   | <p>suggests detailed modifications to the design solution and original specification giving consideration to the use of modern materials, processes and technologies;</p> <p>gives an explanation of how the product could be batch produced.</p> <p style="text-align: right;"><b>[5 6 7 8]</b></p>         | <p>suggests detailed and justified modifications to the design solution and original specification giving consideration to the use of modern materials, processes and technologies;</p> <p>gives a detailed and justified explanation of how the product could be batch produced.</p> <p style="text-align: right;"><b>[9 10 11 12]</b></p> | <div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <b>Mark</b> </div> |          |          |  |      |
| <b>Total/ 90</b>   |  |   |   |          |          |  |      |
| If this work is a re-sit, please tick  |  | Session and Year of previous submission   | Jan / June  | <b>2</b> | <b>0</b> | 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](http://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.