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| **OCR Level 1/Level 2 Cambridge National in Engineering Design** |
| Qualification J822Unit R039 |
| Unit Recording Sheet |

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| Please read the instructions printed at the end of this form. A Unit Recording Sheet must be completed for each candidate and unit. |
| Unit Title | Communicating designs | Unit Code | R039 | Session | Choose an item. | Year | 2 | 0 |   |   |
| Scenario Title |       |
| Centre Name |       | Centre Number |       |
| Candidate Name |       | Candidate Number |       |
| Marking Criteria | Teacher Comments | Mark | Page No. |
| **Task 1 – Topic Area 1: Manual production of freehand sketches** |       |  |       |
| **MB1: 1 - 4 marks** | **MB2: 5 - 8 marks** | **MB3: 9 - 12 marks** |
| Produces a **limited** range of creative freehand design proposals. **Limited** consideration of the design specification.Uses a **basic** range of techniques.**[1 2 3 4]** | Produces an **adequate** range of creative freehand design proposals. **Partial** consideration of the design specification.Uses an **adequate** range of techniques.**[5 6 7 8]** | Produces a **wide** range of creative and innovative freehand design proposals. **Fully** considers the design specification.Uses a **comprehensive** range of techniques.**[9 10 11 12]** |
|   **/12** |

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| **Task 1 (continued) – Topic Area 1: Manual production of freehand sketches** |       |  |       |
| **MB1: 1 - 2 marks** | **MB2: 3 - 4 marks** | **MB3: 5 - 6 marks** |
| Evidence of analysis of design proposals with **limited** annotation.Justification demonstrates **limited** understanding of needs and wants of the client/user.**[1 2]** | Evidence of analysis of design proposals, with **some** annotation.Justification demonstrating **some** understanding of needs and wants of the client/user.**[3 4]** | Extensive evidence of analysis of design proposals that are **fully** annotated.Justification demonstrating a **detailed** understanding of needs and wants of the client/user.**[5 6]** |
|   **/6** |

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| **Task 2 – Topic Area 1: Manual production of freehand sketches – Design Development** |       |  |       |
| **MB1: 1 - 4 marks** | **MB2: 5 - 8 marks** | **MB3: 9- 12 marks** |
| Produces a **basic** freehand sketch of design proposal.**Brief** explanation of the key features of a design proposal with **limited** annotation.**Limited** consideration of the design specification.**[1 2 3 4]** | Produces **adequate** freehand sketches of design proposal.**Adequate** explanation of the key features of a design proposal with **some** annotation.**Some** consideration of the design specification.**[5 6 7 8]** | Produces **comprehensive** freehand sketches of design proposal.**Detailed** explanation of the key features of a design proposal that is **fully** annotated.**Fully** considers the design specification.**[9 10 11 12]** |
|   **/12** |

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| **Task 3 – Topic Area 2: Production of engineering drawings** |       |  |       |
| **MB1: 1 - 4 marks** | **MB2: 5 - 8 marks** | **MB3: 9- 12 marks** |
| Produces a **basic** orthographic drawing.Produces an assembly drawing that is **limited** in detail.**[1 2 3 4]** | Produces an **adequate** and accurate orthographic drawing.Produces an assembly drawing with **some** detail.**[5 6 7 8]** | Produces a **comprehensive** orthographic drawing.Produces a **fully** detailed assembly drawing.**[9 10 11 12]** |
|   **/12** |

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| **Task 4 – Topic Area 3: Use of Computer Aided Design (CAD)** |       |  |       |
| **MB1: 1 - 6 marks** | **MB2: 7 - 12 marks** | **MB3: 13- 18 marks** |
| Use of CAD to produce a **simple** model of the design proposal.A **simple** 3D virtual model consisting of a very limited number of components.**[1 2 3 4 5 6]** | Use of CAD to produce an **adequate** model of the design proposal.An **adequate** 3D virtual model consisting of some components..**[7 8 9 10 11 12]** | Use of CAD to produce a **complex** model of the design proposal.A **detailed** 3D virtual model consisting of many components.**[13 14 15 16 17 18]** |
|   **/18** |
| **Total** |   /**60** |  |

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| Please tick to confirm this work has been standardised internally | **[ ]**  |

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)).
A Centre Authentication form (CCS160) **must** be completed for each submission to the moderator. This **must** be held in your centre to be available on request at centre inspection.

Guidance on Completion of this Form

1 One form should be used for every candidate.

2 Please make sure that all parts 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/highlight the mark awarded for each strand of the marking criteria in the appropriate box.

5 Enter the circled/highlighted mark in the 'Mark' column.

6 Add the marks for the strands together to give a total out of 60. Enter this total in the relevant box.

7 For Paper-based submissions, one of these sheets, suitably completed, should be attached to the assessed work of each candidate.

8 For Electronic Internal submissions, prior to submitting ‘candidate evidence’ to OCR (via the Repository/SfA or via a USB), the Centre should add a separate folder containing the Unit Recording Sheets.