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| **OCR Level 1/Level 2 Cambridge National in Engineering Manufacture** |
| Qualification J823  Unit R015 |
| 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 | Manufacturing a one-off product | | Unit Code | R015 | Session | Choose an item. | Year | 2 | 0 |  |  |
| Scenario Title | |  | | | | | | | | | |
| Centre Name | |  | | | | Centre Number | |  | | | |
| Candidate Name | |  | | | | Candidate Number | |  | | | |

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| Marking Criteria | | | Teacher Comments | Mark | Page No. |
| **Task 1 – Topic Areas 1.1, 1.2: Interpret an engineering drawing and prepare a production plan** | | |  |  |  |
| **MB1: 1 - 5 marks** | **MB2: 6 - 10 marks** | **MB3: 11- 14 marks** |
| A **basic** plan that includes information that could be used when making the product, however additional content would be required to facilitate manufacture.  A **few** of the materials needed are identified.  **Few** suitable processes, tools and equipment are identified.  **Few** health and safety issues have been considered.  At least **one** quality control measure has been identified.  **[1 2 3 4 5]** | An **adequate** plan that includes information that could be used when making the product to facilitate manufacture.  **Some** of the materials needed are identified.  **Some** of the processes, tools and equipment are suitable and presented in a workable sequence.  **Some** health and safety issues have been considered.  **Some** quality control measures identified.  **[6 7 8 9 10]** | A **comprehensive** plan that includes all the information required to facilitate manufacture of the product.  **All** materials needed are accurately identified.  **All** processes, tools and equipment are appropriate and presented in a logical sequence.  **All** health and safety issues have been considered.  **Appropriate** quality control measures identified to support the manufacture of an **effective** outcome.  **[11 12 13 14]** |
| **/14** |

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| **Task 2 – Topic Area 1.3: Risk assessment** | | |  |  |  |
| **MB1: 1 - 2 marks** | **MB2: 3 - 4 marks** | **MB3: 5- 6 marks** |
| At least **one** potential hazard is identified and the risk of occurrence estimated.  At least **one** control measure has been identified.  **[1 2]** | **Some** potential hazards are identified and the risk of occurrence for each is estimated.  Appropriate control measures identified for **some** of the hazards.  **[3 4]** | **All** of the potential hazards of the process are identified and the risk of occurrence for each is estimated.  Appropriate control measures identified for **all** of the hazards.  **[5 6]** |
| **/6** |

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| **Task 3 – Topic Areas 2.1 and 2.2: Measuring and marking out** | | |  |  |  |
| **MB1: 1 - 4 marks** | **MB2: 5 - 8 marks** | **MB3: 9 - 12 marks** |
| Use at least **one** item of measuring equipment.  Safely use a **few** items of marking out equipment.  **Dependent** upon assistance or help from other sources to measure and mark out accurately.  **[1 2 3 4]** | Select and use **some** appropriate items of measuring equipment.  Select and safely use marking out equipment for **some** of the features.  Accurate measuring and marking out is carried out with **some** assistance or help from other sources.  **[5 6 7 8]** | **All** measuring equipment is selected and used appropriately.  Select and safely use appropriate marking out equipment for **all** of the features.  Able to accurately measure and mark out **independently.**  **[9 10 11 12]** |
| **/12** |

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| **Task 4 – Topic Area 3.1: Manually controlled machining processes** | | |  |  |  |
| **MB1: 1 - 5 marks** | **MB2: 6 - 10 marks** | **MB3: 11- 14 marks** |
| **Dependent** upon reminders of safety requirements in order to work safely.  **Basic** application of understanding and skills to partly achieve the intended result, but it would not be useable without further input/work.  **Dependent** upon assistance or help from other sources to use machinery to successfully manufacture the required part.  **[1 2 3 4 5]** | Worked safely with **some** reminders of safety requirements.  **Adequate** application of understanding and skills to produce the intended result in a way that would be useable for its purpose.  Machinery is used to successfully manufacture the required part with **some** assistance or help from other sources.  **[6 7 8 9 10]** | Worked safely at **all** times without additional instruction.  **Effectively** applies understanding and skills to successfully produce the intended result in a way that would be fit-for-purpose.  Able to use machinery to successfully manufacture the required part **independently**.  **[11 12 13 14]** |
| **/14** |

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| **Task 5 – Topic Areas 3.2 and 3.3: Tools and equipment and joining techniques** | | |  |  |  |
| **MB1: 1 - 5 marks** | **MB2: 6 - 10 marks** | **MB3: 11- 14 marks** |
| **Dependent** upon reminders of safety requirements in order to work safely.  **Basic** application of understanding and skills to partly achieve the intended result, but it would not be useable without further input/work.  **Dependent** upon assistance or help from other sources to use tools and equipment to successfully manufacture the part(s) and assemble the product.  **[1 2 3 4 5]** | Worked safely with **some** reminders of safety requirements.  **Adequate** application of understanding and skills to produce the intended result in a way that would be useable.  Tools and equipment are used to successfully manufacture the part(s) and assemble the product with **some** assistance or help from other sources.  **[6 7 8 9 10]** | Worked safely at **all** times without additional instruction.  **Effectively** applies understanding and skills to successfully produce the intended result in a way that would be fully fit-for-purpose.  Able to use tools and equipment **independently** to successfully manufacture the part(s) and assemble the product.  **[11 12 13 14]** |
| **/14** |
| **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.