

|  |
| --- |
| **OCR Level 1/Level 2 Cambridge National in Engineering Manufacture** |
| Qualification J823Unit R015 |
| Unit Recording Sheet |

|  |
| --- |
|  |
| 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 |       |

|  |  |  |  |
| --- | --- | --- | --- |
| 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** |

|  |  |  |  |
| --- | --- | --- | --- |
| Marking Criteria | Teacher Comments | Mark | Page No. |
| **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** |

|  |  |  |  |
| --- | --- | --- | --- |
| Marking Criteria | Teacher Comments | Mark | Page No. |
| **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** |

|  |  |  |  |
| --- | --- | --- | --- |
| Marking Criteria | Teacher Comments | Mark | Page No. |
| **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** |

|  |  |  |  |
| --- | --- | --- | --- |
| Marking Criteria | Teacher Comments | Mark | Page No. |
| **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** |  |

|  |  |
| --- | --- |
| 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.