

Cambridge National in Engineering

OCR Systems control in engineering Unit R115

Unit Recording Sheet

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 | Engineered application | tion of computers | Unit Code | R115 | Series | | Year | |
|------------|------------------------|-------------------|-----------|------|---------------|-------------|------|--|
| Centre Nar | me | | | | Centre Number | | | |
| Candidate | Name | | | | Candi | date Number | r | |

| | Marking Criteria – Te | otal Marks for this unit is 60 | | |
|--|---|---|-----------------|------|
| Mark Band 1 | Mark Band 2 | Mark Band 3 | Teacher Comment | Page |
| LO1: Understand how compu | iters are used in engineering design, m | nanufacture and process control | | |
| Demonstrates a limited understanding of how computers are used within engineering design, manufacture and process control. Draws upon limited skills/knowledge/understanding from other units in the specification. | Demonstrates a sound understanding of how computers are used within engineering design, manufacture and process control. Draws upon some relevant skills/knowledge/understanding from other units in the specification. | Demonstrates a thorough understanding of how computers are used within engineering design, manufacture and process control. Clearly draws upon relevant skills/knowledge/understanding from other units in the specification. | Mark | |
| 1 – 5 marks | 6 – 10 marks v computers are used for maintenance | 11 – 15 marks | | |
| Demonstrates a limited understanding of the use of 'Human Machine Interface (HMI)' and 'expert systems' within system operation, diagnostics and maintenance. Interprets some results obtained from system operation data with limited accuracy. Recommendations for modifications or corrections to a system operation are basic with limited relevance. | Demonstrates a sound understanding of the use of 'Human Machine Interface (HMI)' and 'expert systems' within system operation, diagnostics and maintenance. Interprets results obtained from system operation data with some accuracy. Recommendations for modifications or corrections to a system operation are appropriate with some relevance. | Demonstrates a thorough understanding of the use of 'Human Machine Interface (HMI)' and 'expert systems' within system operation, diagnostics and maintenance. Accurately interprets results obtained from system operation data Recommendations for modifications or corrections to a system operation are thorough and relevant . | Mark | |
| 1 – 6 marks | 7 – 12 marks | 13 – 18 marks. | | |

| LO3: Know how computers are used to communicate and use data for production and maintenance | | | | Teacher Comment | | Page | |
|--|--|--|--|---|----------|------|--|
| Demonstrates limited knowledge the use of computers to communicate and exchange data during production operations. | of Demonstrates some knowledge use of computers to communica exchange data during productio operations. | ite and | | use of computers to d exchange data during | | Mark | |
| Provides a basic description of ho production data is used in maintenance operations. | w Provides a detailed description production data is used in maint operations. | | | rehensive and ion of how production aintenance operations. | | | |
| 1 – 4 ma | rks 5 – | 8 marks | | 9 –12 marks | | | |
| Provides a limited description of h computer are used to communicat and exchange data in maintenanc operations. | e computers are used to commun | icate | | ion of how computers nunicate and exchange | | Mark | |
| Demonstrates a basic knowledge the use of hand held computer devices in manufacturing and maintenance systems. | the use of hand held computer of | Demonstrates a detailed knowledge of the use of hand held computer devices in manufacturing and maintenance systems. | | Demonstrates a comprehensive knowledge of the use of hand held computer devices in manufacturing and maintenance systems. | | | |
| 1 – 5 ma | rks 6 – 1 | 0 marks | | 11 – 15 marks | | | |
| | 1 | | | | Total/60 | | |
| If this work is a re-sit, please tick | ork is a re-sit, please tick Session and Year of previous submission Please tick to indicate this work has been standardised interna | | | ally | | | |

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).

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 60 Enter this total in the relevant box.