

## **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 of computers		Unit Code	R115	Series Jan / June	Year	2	0	
Centre Name					Centre Number				
Candidate Name					Candidate Numbe	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	anufacture and process control			
Demonstrates a <b>limited</b> understanding of how computers are used within engineering design, manufacture and process control. Draws upon <b>limited</b> skills/knowledge/understanding from other units in the specification.	Demonstrates a <b>sound</b> understanding of how computers are used within engineering design, manufacture and process control. Draws upon <b>some relevant</b> skills/knowledge/understanding from other units in the specification.	Demonstrates a <b>thorough</b> understanding of how computers are used within engineering design, manufacture and process control. <b>Clearly</b> draws upon <b>relevant</b> 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 <b>limited</b> understanding of the use of 'Human Machine Interface (HMI)' and 'expert systems' within system operation, diagnostics and maintenance. Interprets <b>some</b> results obtained from system operation data with <b>limited</b> accuracy. Recommendations for modifications or corrections to a system operation are <b>basic</b> with <b>limited</b> relevance.	Demonstrates a <b>sound</b> 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 <b>some</b> accuracy. Recommendations for modifications or corrections to a system operation are <b>appropriate</b> with <b>some</b> relevance.	Demonstrates a <b>thorough</b> 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 <b>thorough</b> and <b>relevant</b> .	Mark		
				1	

URS683 Devised July 2014

Oxford Cambridge and RSA Examinations

LO3: Know how computers are used to communicate and use data for production and maintenance					Teacher Comment		Page
Demonstrates <b>limited</b> knowledge the use of computers to communicate and exchange data during production operations.	of Demonstrates <b>some</b> knowledge o use of computers to communicate exchange data during production operations.	and kn	nowledge of t	comprehensive he use of computers to and exchange data during erations.		Mark	
Provides a <b>basic</b> description of ho production data is used in maintenance operations.	Provides a <b>detailed</b> description of production data is used in mainter operations.	nance <b>de</b>	etailed descr	<b>nprehensive</b> and iption of how production maintenance operations.			
1 – 4 ma	rks 5 – 8	marks		9 –12 marks			
Provides a <b>limited</b> description of h computer are used to communicat and exchange data in maintenanc operations.	e computers are used to communication	ate <b>de</b> se are	etailed descr re used to cor	nprehensive and iption of how computers mmunicate and exchange nance operations.		Mark	
Demonstrates a <b>basic</b> knowledge the use of hand held computer devices in manufacturing and maintenance systems.	of Demonstrates a <b>detailed</b> knowled the use of hand held computer de in manufacturing and maintenance systems.	vices kn e co	Demonstrates a <b>comprehensive</b> knowledge of the use of hand held computer devices in manufacturing and maintenance systems.				
1 – 5 ma	rks 6 – 10	marks		11 – 15 marks			
	1	I			Total/60		
If this work is a re-sit, please tick	Session and Year of previous submission	Jan / June	2 0	Please tick to indicate this work	has been standardised intern	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.