

OCR Level 1/Level 2 Cambridge National in Engineering Manufacture

Qualification J823

Unit R016

Unit Recording Sheet

Please read the instru	uctions printed a	at the end of this form. A Unit Recording	Sheet must be comp	leted for each can	didate and uni	t.					
Unit Title	Manufactu	ring in quantity	Unit Code	R016	Session		Year	2	0		
Scenario Title			•		•	•			•		
Centre Name						Centre Nur	nber				
Candidate Name						Candidate Number					
	·	Marking Criteria			To	eacher Comn	nents		Mar	'k	Page No.
Task 1 – Topic A	rea 1.1: Man	ufacture and use templates									
MB1: 1 - 2 n	narks	MB2: 3 - 4 marks	MB3: 5-	6 marks							
Basic application of understanding and skills to partly achieve the intended result, but it would not be useable without further input/work.		Adequate application of understanding and skills to produce the intended result in a way that would be useable for its purpose.	Effectively applies skills to successfull intended result in a fit-for-purpose.	ly produce the							
Dependent upon assi from other sources to mark out and cut out the parts accurately.	measure,	Accurate templates are measured, marked out and cut out with some assistance or help from other sources.	Able to accurately and cut out templatindependently.		t						
	[1 2]	[3 4]		[5	6]					/6	

	Teacher Comments	Mark	Page No.		
	and 1.4: Determine the sequen rs for CNC equipment and proc				
MB1: 1 - 5 marks	MB2: 6 - 10 marks	MB3: 11 - 14 marks			
The SOP includes basic information, however additional content would be required.	The SOP includes adequate information to make the product.	The SOP produced includes all the information required to manufacture the product.			
Few of the operations required are identified but additions may be needed and the sequence may need adjustment to be workable.	Some of the operations required are identified. The sequence of operations may need minor adjustment to be a workable sequence.	All of the operations required are identified in a logical and workable sequence.			
Few of the operating parameters for the CNC equipment are identified, however would not provide a satisfactory outcome without further input/work.	Some of the operating parameters for the CNC equipment are identified and should provide a satisfactory outcome with minimal adjustment.	All of the operating parameters for the CNC equipment are identified and appropriate and should provide a satisfactory outcome without adjustment.			
[1 2 3 4 5]	[6 7 8 9 10]	[11 12 13 14]		/14	1

	Teacher Comments	Mark	Page No.		
Task 3 - Topic Areas 2.1 and operations					
MB1: 1 - 5 marks	MB2: 6 - 10 marks	MB3: 11 - 14 marks			
Produces basic CAD drawings that include some relevant information however some additional features would be required to create instructions for the CNC operation.	Produces adequate CAD drawings that include most of the information required to create instructions for the CNC operation.	Produces comprehensive CAD drawings that are accurate and include all of the information required to create instructions for the CNC operation.			
Carries out on-screen simulation of few aspects of the CNC operation.	Carries out on-screen simulation of most aspects of the CNC operation.	Carries out an effective on-screen simulation of the CNC operation, making adjustments if required.			
Limited application of understanding and skills to partly achieve the intended result, but information is not exported from the CAD software to the CNC equipment.	Understanding and skills are used to partially export the information from CAD software to CNC equipment that does not fully meet the requirements.	Understanding and skills are used to fully export the information from CAD software to CNC equipment in a way that would be fit-for-purpose.			
[1 2 3 4 5]	[6 7 8 9 10]	[11 12 13 14]		/14	

	Teacher Comments	Mark	Page No.		
Task 4 - Topic Areas 3.1 and	3.2: Setting up and operating				
MB1: 1 - 5 marks	MB2: 6 - 10 marks	MB3: 11 - 14 marks			
Dependent upon reminders of safety requirements in order to work safely.	Worked safely with some reminders of safety requirements.	Worked safely at all times without additional instruction.			
Basic application of understanding and skills to partly achieve the intended result, but it would not be useable without further input/work.	Adequate application of understanding and skills to produce the intended result in a way that would be useable.	Effectively applies understanding and skills to successfully produce the intended result in a way that would be fully fit-for-purpose.			
Dependent upon assistance or help from other sources to set up and operate CNC equipment to successfully manufacture the part(s).	Some assistance or help from other sources is required to set up and operate CNC equipment to successfully manufacture the part(s).	Able to set up and operate CNC equipment independently to successfully manufacture the part(s).			
[1 2 3 4 5]	[6 7 8 9 10]	[11 12 13 14]		/14	_

	Teacher Comments	Mark	Page No.		
Task 5 – Topic Area 3.3: Apply quality control methods					
MB1: 1 - 4 marks	MB2: 5 - 8 marks	MB3: 9 - 12 marks			
Measured few of the features on the drawing although some methods may have not been the most appropriate.	Measured some of the features on the drawing using appropriate methods.	Provided accurate and repeatable measurements of all of the features on the drawing using appropriate methods.			
Basic application of understanding and skills to partly achieve the intended result, but it would not be useable without further input/work.	Adequate application of understanding and skills to produce the intended result in a way that would be useable.	Effectively applies understanding and skills to successfully produce the intended result in a way that would be fully fit-for-purpose.			
[1 2 3 4]	[5 6 7 8]	[9 10 11 12]		/12	
Total					

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).

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

- 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.
- Add the marks for the strands together to give a total out of 60. Enter this total in the relevant box.
- For Paper-based submissions, one of these sheets, suitably completed, should be attached to the assessed work of each candidate.
- 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.