

OCR Level 1/Level 2 Cambridge National in Engineering Programmable Systems

Qualification J824 Unit R049 **Unit Recording Sheet**

Please read the instru	ctions printed a	t the end of this form. A Unit Recording S	Sheet must be comple	eted for each can	didate and unit	t.					
Unit Title	Developing	Developing programmable systems		R049	Session		Year	2	0		
Scenario Title											•
Centre Name						Centre Num	nber				
Candidate Name						Candidate Number					
		Marking Criteria			Te	eacher Comm	nents		Mar	k	Page No.
Task 1 – Topic Ar	ea 1: Plan th	ne development of programmat	ole systems								
MB1: 1 - 2 marks		MB2: 3 - 4 marks	MB3: 5-	6 marks							
Draws a block diagram accuracy for a program system.	nmable	Draws a block diagram with partial accuracy for a programmable system.	Draws a fully accu diagram for a progr	ammable system							
[1 2]		[3 4]		[5 6	3]					/6	
MB1: 1 - 3 marks		MB2: 4 - 6 marks	MB3: 7-	9 marks							
Provides a basic justifi hardware and software to satisfy the programn problem.	requirements	Provides an adequate justification of the hardware and software requirements to satisfy the programmable system problem.	Provides a compre justification of the h software requireme programmable syst	ardware and ents to satisfy the							
[1 2 3]		[4 5 6]		[7 8 9	[נ			-		/9	

	Teacher Comments	Mark	Page No.		
Task 2 – Topic Area 2: Develo					
MB1: 1 - 2 marks	MB2: 3 - 4 marks	MB3: 5 - 6 marks			
Few appropriate connection methods selected.	Some appropriate connection methods selected.	Fully appropriate connection methods selected.			
Dependent upon assistance to physically connect input and output devices to a programmable system safely.	Assisted to physically connect input and output devices to a programmable system safely.	Works independently to physically connect input and output devices to a programmable system safely.			
[1 2]	[3 4]	[5 6]		/6	
MB1: 1 - 3 marks	MB2: 4 - 6 marks	MB3: 7 - 9 marks			
Produces a program that solves few aspects of the programmable system problem.	Produces a program that solves some aspects of the programmable system problem.	Produces a program that solves all aspects of the programmable system problem.			
Selects few appropriate programming functions.	Selects some appropriate programming functions.	Selects wholly appropriate programming functions.			
[1 2 3]	[4 5 6]	[7 8 9]		/9	
MB1: 1 - 4 marks	MB2: 5 - 8 marks	MB3: 9 - 12 marks			
Undertakes limited simulation of the program to ensure its functionality.	Undertakes adequate simulation of the program to ensure its functionality.	Undertakes comprehensive simulation of the program to ensure its functionality.			
Dependent upon assistance to make any necessary corrections.	Assisted to make any necessary corrections.	Works independently to make any necessary corrections.			
[1 2 3 4] [5 6 7 8] [9 10 11 12]			/12		

	Teacher Comments	Mark	Page No.		
Task 3 – Topic Area 3: Test p					
MB1: 1 - 2 marks	MB2: 3 - 4 marks	MB3: 5 - 6 marks			
Produces a basic test plan to enable functionality of the programmable system to be tested. Superficially records outcomes of testing against the test plan.	Produces an adequate test plan to enable functionality of the programmable system to be tested. Adequately records outcomes of testing against the test plan.	Produces a comprehensive test plan to enable functionality of the programmable system to be tested. Clearly records outcomes of testing against the test plan.			
[1 2]	[3 4]	[5 6]		/6	
MB1: 1 - 4 marks	MB2: 5 - 8 marks	MB3: 9 - 12 marks			
Undertakes basic visual and functional testing of the programmable system.	Undertakes adequate visual and functional testing of the programmable system, recording outcomes against the test plan.	Undertakes comprehensive visual and functional testing of the programmable system, recording outcomes against the test plan.			
Undertakes a basic evaluation of the programmable system based on testing.	Undertakes an adequate evaluation of the programmable system based on testing.	Undertakes a comprehensive evaluation of the programmable system based on testing.			
[1 2 3 4]	[5 6 7 8]	[9 10 11 12]		//2	
		Total		/12	
		/60			

Please tick to confirm this work has been standardised internally	
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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

- 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.
- 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.

R049/URS