

17 Program design, production and testing

Applied ICT

Year

Jan/June

OCR GCE H715 Unit G056 Program design, production and testing **Unit Recording Sheet**

Session

G056

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.

Centre Name							Centre Number			
Candidate Name							Candidate Numb	er		
You will produce: a working program with complete documentation to meet a given user requirement.										
needs; b: [AO1/2/3] a progra which must include at least of	am desig one data	n arising from your specification and an an structure, all data types, all control structu	alys ires	e given requirement and describe how your sp is of your finished design identifying its streng and all appropriate operators listed in the prog sult of testing; e: [AO2/4] a program review an	gth gra	s and weaknesses; c: [AO1/3] an amming section; d: [AO1/3] test d	annotated modular programocumentation including a te	m to re st plan	alise the de	sign,
		Criteria				Teacher	Comment		Page	e No.
a (i).1: You show, by identifinputs, outputs and processi requirements for your prograthat you have developed you skills;	sing am,	a (i).2: you show, by correctly identifying all input, output and processing requirements for your program, that you have extended your ICT skills;		a (i).3: you show, by correctly identifying all input, output and processing requirements for your program, that you have used your initiative to extend and enhance your ICT skills.		Mark				
a (ii).1: You demonstrate a		a (ii).2: you demonstrate a detailed	[4]	[၁]		I				
knowledge of tools and tech by using correct techniques developing your specification	nniques for	knowledge of tools and techniques by using correct techniques for developing your specification.	[2]			Mark				
a (iii).1: You apply your	[0 1]	a (iii).2: you apply your knowledge and		a (iii).3: you apply your knowledge and						
knowledge and skills to solv straightforward problem to p a complete specification;		skills to solve a complex problem to produce a complete and correct specification;		skills to solve a complex problem to produce an effective, complete and correct specification.		Mark				
	[0 1]		[2]	[3]						
b (i).1: You show by defining processes, input screens, our formats, validation and verificate structures and file structures are structured as a structure and structured as a structure and structured as a structure and structured as a structure as a structure and structured as a structure and structured as a structure as	utput fication, ctures, ir range ;	b (i).2: you show, by defining all processes, input screens, output formats validation and verification, data structure and producing complete and well-designed screens, file structures and organisation that work, that you have extended your ICT skills;	es	b (i).3: you show, by defining all processes, input screens, output formats, validation and verification, data structures and producing effective, complete and well-designed screens, file structure and organisation that work, that you have used your initiative to extend and enhance your IT skills.		Mark				
In (2) 4 Manual de la constant	[0 1]		[2]	[3]						
b (ii).1: You demonstrate knowledge of techniques by an appropriate technique, su pseudocode, flowcharts, eve action charts, to design proc	uch as ent- cesses;	b (ii).2: you demonstrate knowledge of different techniques, such as pseudocod flowcharts, event-action charts, to design processes;	n	b (ii).3: you demonstrate thorough, detailed knowledge of formal and informal techniques by using a structured design method and a wide range of appropriate techniques, such as pseudocode, flowcharts, event-action charts.		Mark				
	[0 1]		[2]	[3]						

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		Criteria								Teacher Comment	1	Page No.
b (iii).1: You show that you can apply your knowledge by designing at least file structure and a user interface;		b (iii).2: you show that you can use a methodical approach to problem solving by producing a complete and accurate design covering the whole program (input, output, processes, data structure, all file structures, file organisation);	e 21	approach to pr	oduce ram (i e stru	an effect nput, outp tures, file		ng	Mark			
c (i).1: You show that you have developed your skills by producing a working program from your specification.	on 1 2]	c (i).2: you show that you have used your initiative to develop your skills in order to produce a working program from your specification and design; [3] c (ii).2: you show that you can apply your knowledge	o 4]		ow en	nanced s	kills in producing a		Mark			
knowledge and skills to a straightforway problem by producing a working progreto meet original requirements;	ard	and skills to a complex problem by producing an effective, easy to use program that meets original requirements.	2]						Mark			
d (i).1: You show that you have developed your skills by producing a complete set of testing documentation	n; [0 1]	d (i).2: you show that you have extended your skills by producing a test plan with valid, invalid and boundary data;	31	by producing a	test p s as w	lan that o	levelopment of ski overs all paths and alid, invalid and		Mark			
d (ii).1: You show that you can apply knowledge and skills to a straightforway problem by using a test plan and documenting test results that cover all data validation;	ard	d (ii).2: you show that you can use methodical and analytical approaches to a complex problem by using a test plan and documenting test results that cover al eventualities;] 	analytical appr using a test pla	oache an anc	s to a cor docume	n use methodical and applex problem by the stresults the stresults the graph the results to results	and nat	Mark			
e (i).1: You demonstrate a recognition the effects your solution will have on the end user by producing an easy-to-use program;	he	e (i).2: you demonstrate a thorough understanding of the effects your solution will have on the end user by producing an easy-to-use program;		of the effects y	our so in eas	lution wil /-to-use p	rough understand have on the end u rogram that make constructs.	user	Mark			
e (ii).1: You comment on the effectiveness of your solution by comparing your final program to the original requirements and identifying improvements you might make; you		e (ii).2: you comment on the effectiveness of your solution by identifying its strengths and weaknesses and by considering the problems found during testing – comment on how you could have reduced testing errors by changes to your design; you include an	9	solution, taking the strengths a refine your solu own performan	g acco and we ution; ace by	unt of use aknesses ou includ identifyin	analysis of your r feedback to iden s so that you can le an analysis on y g strengths and	your				
comment on your actions and role in solving the problem and identify areas improvement; your report may contain errors in spelling, punctuation and grammar; [0 1 2 3	1	analysis on your own performance by identifying strengths and weaknesses, with some suggestions for improvement to the overall process; your report contains few spelling, punctuation and grammar errors; [6 7 8 9 10]	0]	weaknesses and use this analysis to show how you will address these issues to be more effective in the future; your report is consistently well-structured and there will be few, if any, spelling, punctuation and grammar errors [11 12 13 14 15]			the n	Mark				
				Total	/50							
If this work is a re-sit, please tick		Session and Year of previous submission	Jan	/ June 2	0	0	Please tick to in	ndicate	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 completed Centre Authentication form CCS160 **must** accompany the MS1 when it is sent to the moderator.

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 also enter the circled mark in the final column.
- Add the marks for the strands together to give a total out of 50. Enter this total in the relevant box.

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