**Applied ICT** OCR GCE H515/H715 Unit G056 **Unit Recording Sheet** 

Please read the instructions before completing this form			Ex	Examination Session Year							
Unit Code G056 Unit Title			Program Design, Production a				n and	Testing	9		
Centre Number Centre Name											
Candidate Number			Candidate Nam	e							
needs to inc they have co annotated m operators lis results and	clude: a program sp onsidered the user' nodular program to sted in the program changes identified	becification to meet the 's needs; a program of realise the design, w ming section; test do as a result of testing;	rogram with complete docu te given requirement and d design arising from their sp hich must include at least cumentation including a te a program review and eva	lescrib ecifica one da st plan luatior	e how t tion an ta struc with va	heir sp d an a cture, a alid, inv	ecificationalysis of all data ty alid and	on meets the of the design ypes, all con- l boundary day valuation of y	e program re methods the trol structure ata, expecte your their pe	quirements by have use s and all ap d results, a rformance.	and how d; an ppropriate ctual
		ession and Year of evious submission	January/June 20				Please tick to indicate this work has been standardised internally				
Page		a (0 - 1 - 2 marks					C	omment			
	<ul> <li>The candidate shows that they have developed their skills by developing a specification which identifies some inputs, outputs and processing requirements for the given program requirement;</li> <li>A.(i)2 Criteria (3 - 4 marks)</li> </ul>						he				
	□ The candidate shows that they have extended their skills by developing a specification which identifies most inputs, outputs and processing requirements for the given program requirement;										
Mark (Max 6)	A.(i)3 Criteria (5 - 6 marks) <ul> <li>The candidate shows that they have used their initiative to extend and enhance their skills by developing a clear and full specification which identifies all inputs, outputs and processing requirements for the given program requirement.</li> </ul>										
Page		a (0 - 1 - 2 mark					C	omment			
	<ul> <li>The candidate applies their knowledge and skills to briefly describe how their specification meets the requirements of a straightforward problem, considering the user's needs;</li> <li>A(ii).2 Criteria (3 - 4 marks)</li> <li>The candidate applies their knowledge and skills to describe how their specification meets the requirements of a complex problem and how they have identified the users' needs;</li> </ul>										
Mark	rk A(ii).3 Criteria (5 - 6 marks)										
(Max 6)	☐ The candidate applies their knowledge and skills to fully and clearly describe how their specification meets the requirements of a complex problem and fully considers how the user's needs will be met.					W					
Page	B(i).1 Criteria (0 - 1 - 2 - 3 marks)						C	omment			
	<ul> <li>The candidate demonstrates knowledge of design techniques by using some appropriate techniques, such as pseudocode, flowcharts, event-action charts, to design processes;</li> <li>the candidate designs input screens, output formats, validation and verification, data structures and at least one file structure;</li> </ul>										
	B(i).2 Criteria										
	range of appropri to design process □ the candidate'	iate techniques such ses; 's designs are accura	ledge of different design te as pseudocode, flowcharts te and cover the whole pro ctures and file organisation	s, even ogram	t-actior	h chart	S,				
Mark		a (7 - 8 marks)		·							
(Max 8)	<ul> <li>The candidate demonstrates thorough, detailed knowledge of formal and informal design techniques by using a structured design method and a wide range of appropriate techniques, such as pseudocode, flowcharts, event-action charts;</li> <li>the candidate's designs are accurate, clear and complete and cover the whole program (input, output, processes, data structures, all file structures and file organisation).;</li> </ul>										
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Page	B(ii).1 Criteria (0 - 1 - 2 marks)	Comment			
	The candidate applies their knowledge and skills to comment on the appropriateness of the design methods they used and identifies areas for improvement;				
	B(ii).2 Criteria (3 - 4 marks)				
	The candidate applies their knowledge and skills to analyse the appropriateness of the design methods they used by describing strengths and weaknesses and suggesting improvements;				
	B(ii).3 Criteria (5 - 6 marks)				
Mark (Max 6)	□ The candidate applies their knowledge and skills to analyse the appropriateness and effectiveness of the design methods they used by describing strengths and weaknesses and showing how they have modified their design methods to address the identified weaknesses.				
Page	C.1 Criteria (0 - 1 - 2 - 3 marks)	Comment			
	<ul> <li>The candidate shows that they have developed their skills by producing a program from their specification and design;</li> <li>the candidate's program meets most of the original requirements;</li> </ul>				
	C.2 Criteria (4 - 5 - 6 marks)				
	<ul> <li>The candidate shows that they have extended their skills by producing a fully working program from their specification and design;</li> <li>The candidate's program is modular, meets most of the original requirements and is easy to use;</li> </ul>				
	C.3 Criteria (7 - 8 - 9 marks)				
Mark (Max 9)	<ul> <li>The candidate shows that they have used their initiative to extend and enhance their skills by producing a fully working program with clear and fluent annotation;</li> <li>the candidate's program is modular, meets all original requirements, is easy to use and makes full use of all appropriate data structures, data types, control structures and operators.</li> </ul>				
Page	D.1 Criteria (0 - 1 - 2 marks)	Comment			
	The candidate produces a test plan and documents test results that cover all data validation;				
	D.2 Criteria (3 - 4 marks)				
	The candidate produces a test plan with valid, invalid and boundary data and documents test results to cover all eventualities;				
Mark	D.3 Criteria (5 - 6 marks)				
(Max 6) The candidate produces a test plan that covers all paths and user opera well as all valid, invalid and boundary data, documenting test results to cov eventualities and using the results to refine the solution.					

Page	E.1 Criteria (0 - 1 - 2 - 3 marks)	Comment
	<ul> <li>The candidate comments on the effectiveness of their solution and identifies at least one improvement that they could make;</li> <li>the candidate comments on their actions and role in solving the problem and identifies areas for improvement;</li> <li>the candidate's report may contain errors in spelling, punctuation and grammar;</li> </ul>	
	E.2 Criteria (4 - 5 - 6 marks)	
	<ul> <li>The candidate comments on the effectiveness of their solution by identifying strengths and weaknesses and by considering the problems found during testing;</li> <li>the candidate comments on how they could have reduced testing errors by changes to their design;</li> <li>the candidate includes an analysis of their own performance by identifying strengths and weaknesses, with some suggestions for improvement to the overall process;</li> <li>the candidate's report contains few spelling, punctuation and grammar errors;</li> </ul>	
	E.3 Criteria (7 - 8 - 9 marks)	
	<ul> <li>The candidate provides a critical analysis of their solution, taking account of user feedback, to identify the strengths and weaknesses;</li> <li>the candidate explains refinements that could be made to the solution as a result of their analysis;</li> </ul>	
Mark (Max 9)	<ul> <li>the candidate includes an analysis on their own performance by identifying strengths and weaknesses and uses this analysis to show how they will address these issues to be more effective in the future;</li> <li>the candidate's report is consistently well-structured and there will be few, if any, spelling, punctuation and grammar errors.</li> </ul>	
MARK TOTAL	Please note: This form may be updated on an annual basis. The OCR website ( <u>www.ocr.org.uk</u> ). The completed Centre Authentication form CCS160 moderator	

## Guidance on Completion of this Form

- 1 **One** form 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 Enter the mark awarded for each strand of the marking criteria in the appropriate box and also enter the final mark in the total column.
- 5 Add the marks for the strands together to give a total out of 50. Enter this total in the relevant box.