3666574515

**URS/G056** 

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## OCR GCE H515/H715 Unit G056

Unit Recording Sheet

Applied IC 1

| Please read the ir   | nstructions b   | efore completing th   | nis form  | Exa                                       | amir                                 | natio  | n Se  | ssion  |  | Year  |   |   |
|--|---|---|---|---|--------------------------------------|--|---|--|--|---|---|---|
| Unit Code  | G056  | Unit Title  | Program Design  | n, Pr                                     | odu                                  | ction  | and   | Testir   | ng   |   |   |   |
| Centre Num   | iber  |   | Centre Name   |   |                                      |  |   |  |  |   |   |   |
| Candidate N  | Number  |   | Candidate Nam   | е   |                                      |  |   |  |  |   |   |   |
| needs to include: a<br>they have consider<br>annotated modular<br>operators listed in              | a program spe<br>red the user's<br>program to re<br>the programmes<br>identified as | ecification to meet the<br>needs; a program de<br>ealise the design, wh<br>ning section; test doc<br>s a result of testing; a | ogram with complete docure<br>given requirement and de<br>esign arising from their spe<br>nich must include at least or<br>umentation including a test<br>a program review and eval | escribe<br>ecificat<br>one dat<br>st plan | how t<br>on an<br>a struc<br>with va | heir spe<br>d an an<br>cture, al<br>alid, inva | ecification<br>alysis o<br>I data ty<br>alid and<br>ng an e | on meets t<br>f the desig<br>ypes, all co<br>boundary<br>valuation c | he program re<br>in methods th<br>pontrol structur<br>data, expecte<br>of your their p | equirement<br>ey have us<br>es and all<br>ed results,<br>erformance | s and how<br>sed; an<br>appropriate<br>actual<br>e. |   |
| If work is a re-sit, please tick   |   | ssion and Year of vious submission  | January/June  | 2   | 0                                    |  |   |  | k to indicate t<br>dardised inter  |   | as  |   |
| A.(i)1 Criteria  | (0 - 1 - 2 m  | narks)  |   |   | Co                                   | mmer   | nt  |  |  |   | Page  |   |
| specification which<br>the given program   | n identifies son<br>requirement;  | me inputs, outputs a  | eir skills by developing a<br>nd processing requiremen  | ts for                                    |                                      |  |   |  |  |   |   |   |
|  | hows that the<br>identifies mo  | ey have extended the<br>ost inputs, outputs an  | ir skills by developing a<br>d processing requirement   | s for                                     |                                      |  |   |  |  |   |   |   |
| A.(i)3 Criteria  | (5 - 6 marl   | ks)   |   |   |                                      |  |   |  |  |   | Mark  |   |
| their skills by deve   | loping a clear  | and full specification  | tiative to extend and enha<br>n which identifies all inputs<br>rogram requirement.  |   |                                      |  |   |  |  |   | (Max 6)   |   |
| A(ii).1 Criteria   | ı (0 - 1 - 2 r  | narks)  |   |   | Со                                   | mmer   | nt  |  |  |   | Page  |   |
|  |   |   | o briefly describe how the<br>ward problem, considering   |   |                                      |  |   |  |  |   |   |   |
| A(ii).2 Criteria   |   | •   |   |   |                                      |  |   |  |  |   |   |   |
|  | s the requiren  |   | o describe how their<br>roblem and how they have  | 9   |                                      |  |   |  |  |   |   |   |
| A(ii).3 Criteria   |   |   |   |   |                                      |  |   |  |  |   | Mark  |   |
|  | meets the req   | uirements of a comp   | o fully and clearly describe<br>lex problem and fully cons  |   |                                      |  |   |  |  |   | (Max 6)   |   |
| B(i).1 Criteria  |   |   |   |   | Co                                   | mmer   | nt  |  |  |   | Page  |   |
| appropriate techni<br>design processes;  | ques, such as   | s pseudocode, flowch  | techniques by using some<br>narts, event-action charts,<br>tts, validation and verificat  | to  |                                      |  |   |  |  |   |   |   |
| data structures an   |   |   | ·   | -   |                                      |  |   |  |  |   |   |   |
| B(i).2 Criteria  |   |   |   |   | 4                                    |  |   |  |  |   |   |   |
| <ul><li>range of appropria</li><li>charts, to design p</li><li>the candidate's</li></ul>           | ite techniques<br>processes;<br>designs are a                                       | such as pseudocod   | nt design techniques by us<br>e, flowcharts, event-action<br>e whole program (input, o<br>organisation);  | 1   |                                      |  |   |  |  |   |   |   |
| B(i).3 Criteria (7 - 8 marks)  |   |   |   |   | 1                                    |  |   |  |  | F   | Mark  | — |
| <ul> <li>The candidate of design techniques appropriate techni</li> <li>the candidate's</li> </ul> | lemonstrates<br>by using a st<br>ques, such as<br>designs are a                     | thorough, detailed kr<br>ructured design meth<br>s pseudocode, flowch<br>ccurate, clear and co                                | nowledge of formal and inf<br>nod and a wide range of<br>narts, event-action charts;<br>omplete and cover the who<br>all file structures and file                                   |   |                                      |  |   |  |  |   | (Max 8)   |   |

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|--|---------|------------------|
| B(ii).1 Criteria (0 - 1 - 2 marks)   | Comment | Page             |
| <ul> <li>The candidate applies their knowledge and skills to comment on the<br/>appropriateness of the design methods they used and identifies areas for<br/>improvement;</li> </ul>   |         |                  |
| B(ii).2 Criteria (3 - 4 marks)   |         |                  |
| <ul> <li>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;</li> </ul>  |         |                  |
| B(ii).3 Criteria (5 - 6 marks)   |         |                  |
| <ul> <li>The candidate applies their knowledge and skills to analyse the appropriateness<br/>and effectiveness of the design methods they used by describing strengths and<br/>weaknesses and showing how they have modified their design methods to address<br/>the identified weaknesses.</li> </ul>   |         | Mark<br>(Max 6)  |
| C.1 Criteria (0 - 1 - 2 - 3 marks)   | Comment | Page             |
| <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)   |         |                  |
| <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> |         | Mark<br>(Max 9)  |
| D.1 Criteria (0 - 1 - 2 marks)   | Comment | Page             |
| The candidate produces a test plan and documents test results that cover all data<br>validation;   |         |                  |
| D.2 Criteria (3 - 4 marks)   |         |                  |
| <ul> <li>The candidate produces a test plan with valid, invalid and boundary data and<br/>documents test results to cover all eventualities;</li> </ul>  |         |                  |
| D.3 Criteria (5 - 6 marks)   |         | Mark             |
| <ul> <li>The candidate produces a test plan that covers all paths and user operations as<br/>well as all valid, invalid and boundary data, documenting test results to cover all<br/>eventualities and using the results to refine the solution.</li> </ul>  |         | (Max 6)          |

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| E.1 Criteria (0 - 1 - 2 - 3 marks)   | Comment   | Page            |
|--|---|-----------------|
| <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<br/>feedback, to identify the strengths and weaknesses;</li> <li>the candidate explains refinements that could be made to the solution as a result<br/>of their analysis;</li> </ul>   |   |                 |
| <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<br>(Max 9) |
| Please note: This form may be updated on an annual basis. The current version of the OCR website ( <u>www.ocr.org.uk</u> ).  | this form will be available on<br>MARK<br>TOTAL | 1               |

## **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.

Extra Comment (please indicate to which Criteria comments refer)