VCE Applied Computing: Performance Descriptors

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| **SOFTWARE DEVELOPMENT UNIT 3 OUTCOME 1**  **SCHOOL-ASSESSED COURSEWORK** | | | | | |
| **Performance Descriptors** | | | | | |
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| ***Unit 3***  ***Outcome 1***  ***Interpret teacher-provided solution requirements and designs, and apply a range of functions and techniques using a programming language to develop and test working software modules.*** | **DESCRIPTOR: typical performance in each range** | | | | |
| **Very low** | **Low** | **Medium** | **High** | **Very high** |
| Limited interpretation of solution requirements and designs to develop working modules. | Some interpretation of solution requirements and designs to develop working modules. | Sound interpretation of solution requirements and designs to develop working modules. | Most solution requirements and designs are interpreted accurately to developing working modules. | All solution requirements and designs are interpreted accurately to developing working modules. |
| Limited selection and use of data types and data structures. | Some selection and use of appropriate data types and data structures. | Sound selection and use of data types and data structures to develop working modules. | Detailed selection of relevant data types and data structures to develop working modules. | Comprehensive selection of relevant data types and data structures to develop working modules. |
| Limited selection and use of processing features of the programming language to develop some working modules. | Some selection and use of appropriate processing features of the programming language to develop some working modules. | Sound selection and use of appropriate processing features of the programming language to develop some working modules. | Most processing features of the programming language have been selected and used to develop all working modules. | Comprehensive selection and use of relevant processing features of the programming language to develop all working modules. |
| Limited explanation of how the selected processing features are used to develop working modules. | Some justification and explanation of how the selected processing features are used to develop working modules. | Sound justification and explanation of how the selection of appropriate processing features are used to develop working modules. | Detailed justification and explanation of how the selection of appropriate processing features of the programming language are used to develop working modules. | Comprehensive justification and explanation of how the selection of appropriate processing features of the programming language are used to develop working modules. |
| Limited data validation techniques are applied to check the reasonableness of some input data. | Some data validation techniques are effectively applied to check the reasonableness of some input data. | Sound use of data validation techniques are effectively applied to check the reasonableness of input data. | Detailed use of relevant data validation techniques are applied to efficiently and effectively check the reasonableness of all input data. | Comprehensive use of relevant data validation techniques are applied efficiently and effectively to check the reasonableness of all input data. |

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|  | Limited range of test data is expressed in a testing table, with incomplete or missing results. | Some testing of test data is expressed in a testing table with actual output stated. | Sound range of testing of test data is expressed in a testing table, with both expected and actual output stated and some evidence of debugging. | Detailed use of test data is expressed in a testing table, with both expected and actual output stated with evidence of debugging. | Comprehensive use of test data is expressed in a testing table, with both expected and actual output stated, and showing detailed evidence of debugging. |
| Limited internal documentation with few comments regarding the use of the selected processing features. | Some internal documentation with comments regarding the functioning of modules and the use selected processing features. | Sound use of internal documentation with comments regarding the functioning of modules and the use of selected processing features. | Most software modules include detailed internal documentation regarding the functioning of modules and use of selected processing features. | All software modules include comprehensive internal documentation regarding the functioning of modules and use of selected processing features. |

KEY to marking scale based on the Outcome contributing 100 marks

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| Very Low 1–20 | Low 21–40 | Medium 41–60 | High 61–80 | Very High 81–100 |