# 2011 Software Development Unit 3

**Outcome 2:** Represent a software design and apply a range of functions and techniques using a programming language to develop a prototype solution to meet a specific need.

Total Marks: 60

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| Criteria | Allocated Marks | Teacher’s Comments |
| 1. From the design specifications,a) sketch all the input and output screens or formsb) write an algorithm to show any relevant  calculation modules
 | 38 |  |
| 1. From the design specifications create a data dictionary toa) define the data elementsb) represent the data structures
 | 54 |  |
| 1. Create a complete set of evaluation criteria for evaluating the efficiency and effectiveness of the solution
 | 4 |  |
| 1. Design a Testing Table to test the program with contains an appropriate range of test data
 | 5 |  |
| 1. Use an appropriate programming language to:
 |
| * 1. develop an efficient and effective user interface that meets the users need
 | 3 |  |
| * 1. use advanced data structures such as arrays, records and files as required
 | 5 |  |
| * 1. use program control structures: selection, iteration and sequencing in a working module.
 | 5 |  |
| * 1. create multiple modules to process the data in the arrays and files
 | 5 |  |
| * 1. use meaningful object and variable names that follow relevant naming conventions.
 | 4 |  |
| * 1. write informative internal documentation.
 | 4 |  |
| 1. Provide evidence that the module meets the design specifications by using suitable test data.
 | 5 |  |
| Total: | 60 |  |