Assessment Criteria  
Unit 4 Outcome 1

On completion of this unit the student should be able to apply stages of the problem-solving methodology to produce a solution for use on a mobile device, which takes into account technical and legal requirements.

60% of Unit 4

|  |  |  |
| --- | --- | --- |
| **Task 1** | **45** |  |
| Designs Solution requirements are accurately and clearly represented in detailed algorithms in pseudocode data dictionary |  | 3 4 |
| Development |  |  |
| Validation techniques |  | 4 |
| Testing  An appropriate range of test data is expressed in a testing table,   with both expected and actual output stated. |  | 10 |
| Internal documentation  Clear, relevant and appropriate |  | 3 |
| Correct use of data structures   1D and 2D arrays, file I/O |  | 5 |
| Sort |  | 2 |
| Search   linear search and binary search |  | 4 |
| Solution meets the software requirements specifications Students follow the guidelines of the SRS: functional requirements, non-functional requirements, constraints and scope. |  | 10 |
| **Task 2** | **15** |  |
| User documentation Students must interpret the best type of user documentation needed and create it with appropriate software and apply good sequencing and clarity of instructions. |  | 7 |
| Legal obligations of programmers Students must correctly interpret legal requirements within the context given |  | 4 |
| Security of stored and communicated information Students propose strategies to prevent security violations between the mobile device and the network |  | 4 |