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

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| **Task 1** | **45** |  |
| DesignsSolution requirements are accurately and clearly represented in detailed algorithms in pseudocodedata dictionary |  | 34 |
| 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 documentationStudents 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 programmersStudents must correctly interpret legal requirements within the context given |  | 4 |
| Security of stored and communicated informationStudents propose strategies to prevent security violations between the mobile device and the network |  | 4 |