

**PDA: Software Development**  
**Level 8 - Student Evidence Checklist**

|                  |  |                                                                                                             |
|------------------|--|-------------------------------------------------------------------------------------------------------------|
| <b>Full name</b> |  | <b>Key:</b> A & D - Analysis and Design Unit<br>I & T - Implementation and Testing Unit<br>P - Project Unit |
| <b>Cohort</b>    |  |                                                                                                             |

The evidence required can be taken from your assignments, homework that you have completed on your own or by creating a specific example for the PDA.

| <b>Week 2</b> | <b>Unit</b> | <b>Ref.</b> | <b>Evidence</b>                                                                                                                                                                                                                      | <b>Done</b> |
|---------------|-------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|               | I & T       | I.T 5       | Demonstrate the use of an array in a program. Take screenshots of: <ul style="list-style-type: none"> <li>• An array in a program</li> <li>• A function that uses the array</li> <li>• The result of the function running</li> </ul> |             |
|               | I & T       | I.T 6       | Demonstrate the use of a hash in a program. Take screenshots of: <ul style="list-style-type: none"> <li>• A hash in a program</li> <li>• A function that uses the hash</li> <li>• The result of the function running</li> </ul>      |             |

| <b>Week 3</b> | <b>Unit</b> | <b>Ref.</b> | <b>Evidence</b>                                                                                                                                                                             | <b>Done</b> |
|---------------|-------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|               | I & T       | I.T 3       | Demonstrate searching data in a program. Take screenshots of: <ul style="list-style-type: none"> <li>• Function that searches data</li> <li>• The result of the function running</li> </ul> |             |
|               | I & T       | I.T 4       | Demonstrate sorting data in a program. Take screenshots of: <ul style="list-style-type: none"> <li>• Function that sorts data</li> <li>• The result of the function running</li> </ul>      |             |

| <b>Week 5</b> | <b>Unit</b> | <b>Ref.</b> | <b>Evidence</b>     | <b>Done</b> |
|---------------|-------------|-------------|---------------------|-------------|
|               | A & D       | A.D 1       | A Use Case Diagram  |             |
|               | A & D       | A.D 2       | A Class diagram.    |             |
|               | A & D       | A.D 3       | An Object diagram.  |             |
|               | A & D       | A.D 4       | An Activity Diagram |             |

|  |       |       |                                                                                                                                                                                                                                                                                                             |  |
|--|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | A & D | A.D 6 | Produce an Implementations Constraints plan detailing the following factors: <ul style="list-style-type: none"> <li>• Hardware and software platforms</li> <li>• Performance requirements</li> <li>• Persistent storage and transactions</li> <li>• Usability</li> <li>• Budgets</li> <li>• Time</li> </ul> |  |
|  | P     | P 5   | Create a user sitemap.                                                                                                                                                                                                                                                                                      |  |
|  | P     | P 6   | Produce two wireframe designs.                                                                                                                                                                                                                                                                              |  |
|  | P     | P 10  | Take a screenshot of an example of pseudocode for a function.                                                                                                                                                                                                                                               |  |
|  | P     | P 13  | Show user input being processed according to design requirements. Take a screenshot of: <ul style="list-style-type: none"> <li>• The user inputting something into your program</li> <li>• The user input being saved or used in some way</li> </ul>                                                        |  |
|  | P     | P 14  | Show an interaction with data persistence. Take a screenshot of: <ul style="list-style-type: none"> <li>• Data being inputted into your program</li> <li>• Confirmation of the data being saved</li> </ul>                                                                                                  |  |
|  | P     | P 15  | Show the correct output of results and feedback to user. Take a screenshot of: <ul style="list-style-type: none"> <li>• The user requesting information or an action to be performed</li> <li>• The user request being processed correctly and demonstrated in the program</li> </ul>                       |  |
|  | I & T |       | Coding exercise 1: Static and Dynamic testing task A                                                                                                                                                                                                                                                        |  |

| Week 6 | Unit  | Ref.  | Evidence                                          | Done |
|--------|-------|-------|---------------------------------------------------|------|
|        | I & T | I.T 7 | Demonstrate the use of Polymorphism in a program. |      |

| Week 9 | Unit  | Ref.  | Evidence                                                                                                                                                                                                                                                                                                                    | Done |
|--------|-------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|        | A & D | A.D 5 | An Inheritance Diagram                                                                                                                                                                                                                                                                                                      |      |
|        | I & T | I.T 1 | Take a screenshot of an example of encapsulation in a program.                                                                                                                                                                                                                                                              |      |
|        | I & T | I.T 2 | Take a screenshot of the use of Inheritance in a program. Take screenshots of: <ul style="list-style-type: none"> <li>• A Class</li> <li>• A Class that inherits from the previous class</li> <li>• An Object in the inherited class</li> <li>• A Method that uses the information inherited from another class.</li> </ul> |      |

|  |   |      |                                                                                                      |  |
|--|---|------|------------------------------------------------------------------------------------------------------|--|
|  | P | P 11 | Take a screenshot of one of your projects where you have worked alone and attach the Github link.    |  |
|  | P | P 12 | Take screenshots or photos of your planning and the different stages of development to show changes. |  |

| Week 11 | Unit | Ref. | Evidence                                                                                                                                                                                                                                                                         | Done |
|---------|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|         | P    | P 18 | Demonstrate testing in your program. Take screenshots of: <ul style="list-style-type: none"> <li>• Example of test code</li> <li>• The test code failing to pass</li> <li>• Example of the test code once errors have been corrected</li> <li>• The test code passing</li> </ul> |      |

| Week 12 | Unit | Ref. | Evidence                                                                                                                                                                                                                   | Done |
|---------|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|         | P    | P 16 | Show an API being used within your program. Take a screenshot of: <ul style="list-style-type: none"> <li>• The code that uses or implements the API</li> <li>• The API being used by the program whilst running</li> </ul> |      |

| Week 14 | Unit  | Ref. | Evidence                                                                                                                                                              | Done |
|---------|-------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|         | P     | P 1  | Take a screenshot of the contributor's page on Github from your group project to show the team you worked with.                                                       |      |
|         | P     | P 2  | Take a screenshot of the project brief from your group project.                                                                                                       |      |
|         | P     | P 3  | Provide a screenshot of the planning you completed during your group project, e.g. Trello MOSCOW board.                                                               |      |
|         | P     | P 4  | Write an acceptance criteria and test plan.                                                                                                                           |      |
|         | P     | P 7  | Produce two system interaction diagrams (sequence and/or collaboration diagrams).                                                                                     |      |
|         | P     | P 8  | Produce two object diagrams.                                                                                                                                          |      |
|         | P     | P 9  | Select two algorithms you have written (NOT the group project). Take a screenshot of each and write a short statement on why you have chosen to use those algorithms. |      |
|         | P     | P 17 | Produce a bug tracking report                                                                                                                                         |      |
|         | I & T |      | Coding Exercise 2: Unit and Integration testing task B                                                                                                                |      |