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| **BTEC Level 3 Certificate and Diploma in ICT Systems and Principles**  |
| **Assessment Title: Describe the role of software design**  |
| Assessor: Bob Higgie | Student: | Course code:  |
| Unit Number: 51 | Unit Title: Software Design Fundamentals | Assessment Code: U51.01 |
| Hand out Date :14/02/17 | Hand in date: 17/02/17 | Date handed in: |

**Individual Target:**1.1 describe the role of software design and computer programming in the IT

Systems Development Life Cycle (SDLC)

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| **Actual Grade** | **Grading criteria**  | 1.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Achieved?** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Please note that the grade that you have been awarded is subject to confirmation by the awarding body.

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| **Scenario**You are employed at a small software development company in Gloucester. You have been training as a programmer and have been using Microsoft Visual Studio. A local decorating company have asked for a program to be written to allow them to estimate the cost of painting rooms.Prior to starting development your manager has asked you to investigate development methodologies and suggest the most appropriate one for the decorating estimator. **Task 1 Criteria 1.1**Create a report to describe the function and purpose of the development lifecycle stages, giving examples of developmental tools and techniques used at each stage from the exercises produced in class.You need to describe four methodologies:* Waterfall
* Iteration
* RAD
* Agile

Make sure you explain what type of projects the different methodologies are suited to, along with their advantages and disadvantages. You must then justify your choice of methodology for the decorating estimator.  |

**What to hand in:**

Task One **-** A report

**How to hand in your assessment**

This assessment must be uploaded onto the VLE by the hand in date on the front of the assignment brief.

If you have a valid reason why you will not be able to hand in the work on time (up to 3 days later), you will need to fill out and hand in an AE1. If you need to ask for a longer extension you will need to fill out and hand in an AE to your Head of School at least two days before the assessment deadline.

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| **Student declaration:**By uploading my work to the VLE I declare that:* I have read the Assignment Submission Procedure.
* I agree that this is my own work or my own work and that of other members of my group. It has not been copied (plagiarised) from any other source e.g. the internet, a book, another student or group of students.
* I know that I may FAIL this assignment if my Head of School proves that this is not my own work.
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For staff use only.

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| **Internal Verification** | This assessment has been verified and form IV8 completed: | IV name: | IV signature: | Date: |