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| **COURSE NAME / CODE** | | | BTEC National Subsidiary / Diploma / Extended Diploma in IT | | | | | |
| **UNIT(s) No / Name** | | | Unit 14 – Event driven programming | | | | | |
| **LEVEL** | 3 | Assignment No & Title | Assignment 3/Implement and Test | | | | | |
| **LECTURER/ASSESSOR** | | | | Emmanuel Oladipo/ | | | | |
| **ISSUE DATE** | | | | 10/05/2017 | **DEADLINE DATE** | | 24/05/2017 | |
| **SUBMISSION DATE** | | | |  | |  | | |
| **RESUBMISSION AUTHORISATION**  BY LEAD INTERNAL VERIFIER\* | | | |  | | **Authorisation Date (By iv)** | |  |
| **RESUBMISSION DATE\*\*** | | | |  | |  | | |

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| * all resubmissions must be authorised by the **Lead Internal Verifier**. Only **one** resubmission is possible per assignment, providing: * The learner has met the initial deadlines set in the assignment, or has met an agreed deadline extension * The tutor considers that the learner will be able to provide improved evidence without further guidance * Evidence submitted for assessment has been authenticated and accompanied by a signed and dated declaration of authenticity by the learner   \*\*Any resubmission evidence **must** be submitted within 10 working days of receipt of assessment |

**Student declaration**

*I declare that this assignment is all my own work and the sources of information and material I have used (including the internet) have been fully identified and properly acknowledged as required.*

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| **STUDENT NAME** | **SIGNATURE** |
|  |  |

**ASSESSMENT DETAILS & GRADING CRITERIA**

(NB: Columns 1 &2 of the table below will be completed once the assignment has been submitted) Please note that criteria & evidence should be aimed to give the learner the maximum grade available within their qualification (i.e. A, Pass, Distinction)

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| **Learning Aims Covered** | |  | | |  |  | | |  |
| LO 4 | | Be able to implement event driven applications. | | | | | | | |
| **GRADING CRITERIA FOR TASK** | | **EVIDENCE** | **1) EVIDENCE SEEN** | | **Page No#** | **2) CRITERIA MET** | | |  |
| **Y** | **N** | **Y** | **I** | **N** | **IV** |
| P4 | implement a working event driven application to meet defined requirements | **Implementation Screenshots** with explanation. |  |  |  |  |  |  |  |
| P5 | Test an event driven application. | Testing table and **screenshot** testing evidence. |  |  |  |  |  |  |  |
| M3 | analyse actual test results against expected results to identify discrepancies | Analysis **Table** |  |  |  |  |  |  |  |
| D2 | Evaluate an event driven application. | **Evaluation form**  Annotation (Reports) |  |  |  |  |  |  |  |

**KEY: Y = Yes, I = Incomplete, N = No**

**BREAKDOWN OF HOW GRADES WILL BE AWARDED:** (NB: Please tick as appropriate)

|  |  |  |
| --- | --- | --- |
| **TYPE OF QUALIFICATION** | **TICK** | **DESCRIPTION** |
| **BTECS / WORKSKILLS** | **√** | Pass / Merit / Distinction / Fail |
| **A LEVELS / A2** |  | A-U |

**Internal Verification of Assignment Brief**

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| **IV Full Name** |  | **Sign** |  | **Date:** |  |
| **LIV Full Name** |  | **Sign** |  | **Date:** |  |



**BTEC Sample Material**

**Learner Consent Declaration**

|  |  |  |
| --- | --- | --- |
| **Centre No & Name** | **51330 – UTC Reading** | |
| **Subject & Level** | **BTEC National Subsidiary / Diploma / Extended Diploma in IT** | **3** |
| **Unit No & Title** | **Unit 14 – Event driven Programming** | |
| **Learner No & Name** |  | |

I agree to the learner work identified above, after having been made anonymous, being used to support any of the following activities, which may involve the display of work online through the BTEC website or through publications:

* Professional Development and Training
* Centre Assessment Example Material
* Standardisation Support
* Publication Materials

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| **Assessor Signature** |  |
| **Name** (block capitals please) |  |
| **Job Title** |  |
| **Date**: |  |

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| **Learner Signature** |  |
| **Name** (block capitals please) |  |
| **Parent/Guardian consent if under 16 years of age** |  |
| **Date**: |  |

Please ensure that this sheet is completed on submission of your assignment.



Unit: 14

Assignment: 3

*Implement and Test*

Please note that your assignment **MUST** have the following:

1. Cover page
2. Contents page
3. Introduction
4. Conclusion
5. Bibliography

**SCENARIO** As a junior programmer working for an electronic games maker. Your managers have finally approved your event driven application design and they have asked you to implement it using event driven programming language.

You are therefore required to do the following:

* Implement the application interface and explain step by step how you did it
* Write your programs using event driven programming language
* Comment your program, include line spacing and indentation where necessary
* Provide screenshots of the debugging process and explain how the debugging was done
* Use error trapping code snippet to handle any possible error that may arise.
* Refine the implementation.
* Test your application using test data and provide the screen dump evidence.
* Complete the test plan table to reflect the testing has been done.
* Create an evaluation document and let someone do the evaluation

**TASK 1: Evidence you must produce for this task. (Report)**

Screenshots of the implemented interface.

Program/codes of the application.

A word processed documentation of how it was implemented**.**

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| **To achieve the criteria you must show that you are able to:** | **Unit** | **Criterion Reference** |
| Implement a working event driven application to meet defined requirements. | 14 | P4 |
| Describe step by step how you did it and provide screen shots | 14 | P4 |

**TASK 2 Evidence you must produce for this task. (Report)**

Testing table

Screenshots of testing with test data

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| **To achieve the criteria you must show that you are able to:** | **Unit** | **Criterion Reference** |
| Test your implemented event driven application. | 14 | P5 |
| Explain the testing process using screenshots. | 14 | P5 |

**TASK 3 Evidence you must produce for this task.**

Test table showing the analysis i.e. item being tested, expected outcome, actual outcome and corrective action taken if any.

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| **To achieve the criteria you must show that you are able to:** | **Unit** | **Criterion Reference** |
| Create a table of analysis to include corrective action | 14 | M3 |
| Comment on the actual results of testing | 14 | M3 |

**TASK 4 Evidence you must produce for this task.**

Evaluation form

Annotation to reflect evaluation

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| **To achieve the criteria you must show that you are able to:** | **Unit** | **Criterion Reference** |
| Create an evaluation form | 14 | D2 |
| Evaluate the event driven application you have created | 14 | D2 |
| Reflect the evaluation in the annotation of work | 14 | D2 |
| Refine the application in view of the evaluation done | 14 | D2 |

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| P4  Ms Word Report | P5  Ms Word Report | M3  Ms Word Report | D2    Ms Word Report |
| Implementation screen  Shots.    Programs screenshot  Documentation | Testing Table      Testing Screenshots  With test data. | Analysis Table  Debugging  Error Handling | Evaluation Form  Annotation  Refinement |

|  |  |
| --- | --- |
| **Sources of information** | **Textbooks**   * Balena F – Programming Microsoft Visual Basic 6 (Microsoft Press US, 1999) ISBN-10: 0735605580, ISBN-13: 978-0735605589 * Bond M, Law D, Longshaw A, Haywood D and Roxburgh P – Sams Teach Yourself J2EE in 21 Days, 2nd Edition (Sams, 2004) ISBN-10: 0672325586, ISBN-13: 978-0672325588 * Palmer G – Java Event Handling (Prentice Hall, 2001) ISBN-10: 0130418021, ISBN-13: 978-0130418029 * Longshaw J and Sharp J – Visual J#.NET Core Reference (Microsoft Press US, 2002) ISBN-10: 0735615500, ISBN-13: 978-0735615502 * Suddeth J – Programming with Visual Studio.NET 2005 (Lulu.com, 2006) ISBN-10: 1411664477, ISBN-13: 978-1411664470 * Troelsen A – Pro C# 2005 and the.NET 2.0 Platform, 3rd Edition (Apress US, 2004) ISBN-10: 1590594193, ISBN-13: 978-1590594193   **Websites**   * eventdrivenpgm.sourceforge.net * [www.vbexplorer.com/VBExplorer/VBExplorer.asp](http://www.vbexplorer.com/VBExplorer/VBExplorer.asp)   www.vbwm.com |

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| **SUMMATIVE ASSESSMENT RECORD SHEET** | | | | | | |
| **Programme** | BTEC National Subsidiary / Diploma / Extended Diploma in IT | | **Learner Name** |  | **Assessor Name** | Emmanuel Oladipo |
| **Unit No. & Title** | **14/Event driven programming** | | **Target Learning Aims** | Be able to implement event driven applications. | **Issue Date** | Click here to enter a date. |
| **Assignment No & Title** | **3/** Implement and Test | | | | **Final Submission Date** | Click here to enter a date. |
| **Target criteria** | **Criteria Achieved** | **Final Assessment Comments** | | | | |
| P4 |  |  | | | | |
| P5 |  |  | | | | |
| M3 |  |  | | | | |
| D2 |  |  | | | | |

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| **Summative comments** | | | |
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| **Assessors declaration** | | | |
| I certify that the evidence submitted for this assignment is the student's own and the learner will be able to provide improved evidence without guidance. I understand that any false declaration is a form of malpractice. | | | |
| **Resubmission authorisation\*** |  | **Resubmission Date:** | Click here to enter a date. |
| \* All resubmissions must be authorised. Only 1 resubmission is possible per assignment. | | | |
| **Assessor Signature** |  | **Date:** |  |
| **Learner comments** |  | | |
| **Learner Signature** |  | **Date:** |  |