

<b>COURSE NAME / CODE</b>			BTEC National Subsidiary / Diploma / Extended Diploma in IT		
<b>UNIT(s) No / Name</b>			Unit 14 – Event driven programming		
<b>LEVEL</b>	3	Assignment No & Title	Assignment 2/Design Work		
<b>LECTURER/ASSESSOR</b>			Emmanuel Oladipo/		
<b>ISSUE DATE</b>			25/04/2017	<b>DEADLINE DATE</b>	08/05/2017
<b>SUBMISSION DATE</b>					
<b>RESUBMISSION AUTHORIZATION BY LEAD INTERNAL VERIFIER*</b>				<b>AUTHORISATION DATE (BY IV)</b>	
<b>RESUBMISSION DATE**</b>					

- 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.*

<b>STUDENT NAME</b>	<b>SIGNATURE</b>

#### 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)

Learning Aims Covered									
LO 2 and LO3-		Be able to use the tools and techniques of an event driven language; Be able to design event driven applications							
GRADING CRITERIA FOR TASK		EVIDENCE	1) EVIDENCE SEEN		Page No#	2) CRITERIA MET			
			Y	N		Y	I	N	IV
P3	Design an event driven application to meet defined requirements	Task 1. A design <b>Report to</b> include <b>ALL</b> of the checklist under <b>P3</b> criterion							
M2	Give reasons for the tools and techniques used in the production of an event driven application	Task 2. A section of the <b>Report</b> on design to include <b>ALL</b> of the items under <b>M2</b> in the check list							

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

#### BREAKDOWN OF HOW GRADES WILL BE AWARDED:

(NB: Please tick as appropriate)

<b>TYPE OF QUALIFICATION</b>	<b>TICK</b>	<b>DESCRIPTION</b>
BTECS / WORKSKILLS	✓	Pass / Merit / Distinction / Fail
A LEVELS / A2		A-U

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

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

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.

Please note that your assignment **MUST** have the following (unless otherwise stated):

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

## SCENARIO

Your programming competence in event driven programming as a junior is to be tested by your line manager who has asked you to write a short guide to the basics of event driven programming and to demonstrate some of the techniques.

You are required to demonstrate how to design an event driven application and your design must include the following:

You have been asked to design an example event driven program to demonstrate your coding skills. Your event driven application must have the following:

- Interface design (3 drafts minimum)
- Program flow charts
- Algorithm and pseudo code
- A table list of variables and data type

The tools and techniques used in the production of the event driven application. Triggers: eg key press, alarm, system event, touch screen event, mouse click.

## TASK 1: Evidence you must produce for this task.

To achieve the criteria you must show that you are able to:	Unit	Criterion Reference
Write a simple report to introduce your application design		
Define client requirements and the purpose of the application. input; output; processes	14	P3
Design an event driven application to meet defined requirements.	14	P3
Show Tools and techniques used: eg use of tool boxes and controls, selection, loops, event handlers, triggers, objects and object properties, menus; debugging tools Variables: declaring variables; scope of variables; constants; data types	14	P3
Show examples of triggers used: Triggers: eg key press, alarm, system event, touch screen event, mouse click	14	P3
Indicate all properties to be assigned to the screen components	14	P3
Give at least three drafts of your design sketches (well annotated)	14	P3
Create a test plan	14	P3
Write the algorithm and the pseudo code of your application	14	P3
Construct a flow chart of application program	14	P3

## TASK 2: Evidence you must produce for this task.

To achieve the criteria you must show that you are able to:	Unit	Criterion Reference
List various tools and techniques.	14	M2
Give reasons for the tools and techniques used in the production of an event driven application	14	M2
Justify the tools and techniques used in the production of an event driven application.	14	M2

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](http://eventdrivenpgm.sourceforge.net)
- [www.vbexplorer.com/VBExplorer/VBExplorer.asp](http://www.vbexplorer.com/VBExplorer/VBExplorer.asp)

[www.vbwm.com](http://www.vbwm.com)

P3



Ms Word Report/ Power point

M2



Ms Word Report/ Power point

- |  |   |
|--|---|
| <input type="checkbox"/> Client requirements                               | <input type="checkbox"/> A list of Event driven programming tools and techniques and their uses |
| <input type="checkbox"/> Three drafts of design sketches                   | <input type="checkbox"/> A justification of the event driven programming tools and techniques   |
| <input type="checkbox"/> Test Plan   |   |
| <input type="checkbox"/> Techniques and tools triggers and Variables       |   |
| <input type="checkbox"/> Algorithm and the pseudo code of your application |   |
| <input type="checkbox"/> Program flow chart                                |   |

SUMMATIVE ASSESSMENT RECORD SHEET					
<b>Programme</b>	BTEC National Subsidiary / Diploma / Extended Diploma in IT		<b>Learner Name</b>		<b>Assessor Name</b> Emmanuel Oladipo
<b>Unit No. &amp; Title</b>	14/Event driven programming	<b>Target Learning Aims</b>	Be able to use the tools and techniques of an event driven language; Be able to design event driven applications		<b>Issue Date</b> Click here to enter a date.
<b>Assignment No &amp; Title</b>	2/Design Work			<b>Final Submission Date</b>	Click here to enter a date.
<b>Target criteria</b>	<b>Criteria Achieved</b>	<b>Final Assessment Comments</b>			
P3					
M2					
<b>Summative comments</b>					
<b>Assessors declaration</b>					
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.					
<b>Resubmission authorisation*</b>			<b>Resubmission Date:</b>	Click here to enter a date.	
* All resubmissions must be authorised. Only 1 resubmission is possible per assignment.					
<b>Assessor Signature</b>			<b>Date:</b>		
<b>Learner comments</b>					
<b>Learner Signature</b>			<b>Date:</b>		