



Assignment front sheet

Learner Name		Assessor Name	
		Dr Derek Peacock	
Date issued	Completion date	Submitted on	
7th September 2015	20th November 2015		
Qualification		Unit number and title	
BTEC Level 3 Extended Diploma in IT		Unit 14: Event Driven Programming	
Assignment title	Assignment 2 : Event Driven Applications		
In this assessment you will have opportunities to provide evidence against the following criteria.			

Criteria reference	To achieve the criteria the evidence must show that the student is able to:	Task no.
P3	Design an event driven application to meet defined requirements	Task 1
P4	Implement a working event driven application to meet defined requirements	Task 2
P5	Test an event driven application	Task 2
P6	Create onscreen help to assist the users of a computer program.	Task 2
M3	Analyse actual test results against expected results to identify discrepancies	Task 2
M4	Create technical documentation for the support and maintenance of a computer program	Task 1
D2	Evaluate an event driven application	Task 2

Learner declaration

I certify that the work submitted for this assignment is my own and research sources are fully acknowledged. I am happy with the grade awarded.

Learner signature:

Date:

Final Grade		Points	
--------------------	--	---------------	--

	P3	P4	P5	P6	M3	M4	D2		
1 st attempt Date	✓✗ 11/11/11	✓✗ 11/11/11	✓✗ 11/11/11	✓✗ 11/11/11	✓✗ 11/11/11	✓✗ 11/11/11	✓✗ 11/11/11		
Final attempt Date									



Assessor's comments

Qualification	BTEC Level 3 Extended Diploma in IT	Assessor name	Dr Derek Peacock
Unit number and title	Unit 14: Event Driven Programming	Learner name	

Grading criteria		Assessor Feedback
P3	Design an event driven application to meet defined requirements	
P4	Implement a working event driven application to meet defined requirements	
P5	Test an event driven application	
P6	Create onscreen help to assist the users of a computer program	
M3	Analyse actual test results against expected results to identify discrepancies	
M4	Create technical documentation for the support and maintenance of a computer program	
D2	Evaluate an event driven application.	

Additional Assessor Feedback (including feedback for upgrade) and Action Plan	Action completed by date

Learner Feedback

Learner		Signature		Date	
Assessor		Signature		Date	
Internal Verifier		Signature		Date	
Lead Internal Verifier (if appropriate)		Signature		Date	

Assignment brief

Qualification	BTEC Level 3 Extended Diploma in IT
Unit number and title	Unit 14: Even Driven Programming
Start date	7th September 2015
Deadline	20th November 2015
Assessor name	Dr Derek Peacock

Assignment title	Assignment 2: Event Driven Applications
------------------	--

The purpose of this assignment is to:

- Be able to use the tools and techniques of an event driven language
- Be able to design event driven applications
- Be able to implement event driven applications.

Scenario

You are working for “Lets Train U”, a training organisation that provides training in its own training centres, on customer’s sites and as an on-line resource. You have been given the job of producing three example small applications that could be used as suitable training examples for an introductory course in event driven programming. The example chosen must all be event driven and cover the following topics

- Input, output, Sequence, selection and iteration
- Declaring variables, the scope of variables
- Data types, data validation and error handling
- Code layout, indentation, comments and good use of names
- Event handling and other procedures or functions

P3: design an event driven application to meet defined requirements

M4: create technical documentation for the support and maintenance of a computer program

Task 1 (P3, M4)

1. Create a use case diagram that summarise the functionality of each application based on the supplied user requirements.
2. Create a class diagram that contains appropriate classes, attributes and methods
3. Fully document the classes
4. Generate skeleton code from the classes and the supporting API technical documentation
5. Get your line manager (your tutor) to sign off each of the completed designs as meeting the specified requirements

Evidence

A document or web page that for each application example contains

1. Use Case Diagram
2. Class Diagram
3. API Documentation

- P4:** implement a working event driven application to meet defined requirements
- P5:** test an event driven application
- P6:** create onscreen help to assist the users of a computer program
- M3:** analyse actual test results against expected results to identify discrepancies
- D2:** evaluate an event driven application.

Task 2 (P4, P5, P6)

Implement each completed design (**P4**) in the agreed programming language, and thoroughly test it using black box tests or test driven development (**P5**). Test logs should be a table containing the purpose of the test, the data entered, the expected result, the actual result and comments on discrepancies.

Make sure that each application displays instructions on the screen to aid users of the program (**P6**). Show each completed application to your manager and get it signed off.

Analyse the actual test results against expected results to identify any issues, and suggest ways in which those issues could be resolved (**M3**). Evaluate the completed application and discuss the alternative ways it could have been designed or implemented, and the ways in which it can be improved or extended (**D2**)

Evidence

1. Full formatted code listings
2. A document or web pages with
 - a. Completed Test Log or Test Code.
 - b. Screen shots of the application in action.
 - c. Log of test results with analysis of discrepancies.
 - d. Evaluation of the application with suggested improvements