

## Assignment front sheet

Learner Name		Assessor Name	
		<b>Dr Derek Peacock</b>	
Date issued	Completion date	Submitted on	
<b>7<sup>th</sup> September 2015</b>	<b>20<sup>th</sup> November 2015</b>		
Qualification		Unit number and title	
<b>BTEC Level 3 Extended Diploma in IT</b>		<b>Unit 14: Event Driven Programming</b>	
Assignment title	<b>Assignment 2 : Event Driven Applications</b>		
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.
<b>P3</b>	Design an event driven application to meet defined requirements	<b>Task 1</b>
<b>P4</b>	Implement a working event driven application to meet defined requirements	<b>Task 2</b>
<b>P5</b>	Test an event driven application	<b>Task 2</b>
<b>P6</b>	Create onscreen help to assist the users of a computer program.	<b>Task 2</b>
<b>M3</b>	Analyse actual test results against expected results to identify discrepancies	<b>Task 2</b>
<b>M4</b>	Create technical documentation for the support and maintenance of a computer program	<b>Task 1</b>
<b>D2</b>	Evaluate an event driven application	<b>Task 2</b>

### 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:

<b>Final Grade</b>		<b>Points</b>	
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	P3	P4	P5	P6	M3	M4	D2		
1 <sup>st</sup> attempt Date	✓✗ 11/11/11								
Final attempt Date									



# Assessor's comments

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

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

<b>Additional Assessor Feedback (including feedback for upgrade) and Action Plan</b>	<b>Action completed by date</b>

<b>Learner Feedback</b>

<b>Learner</b>		<b>Signature</b>		<b>Date</b>	
<b>Assessor</b>		<b>Signature</b>		<b>Date</b>	
<b>Internal Verifier</b>		<b>Signature</b>		<b>Date</b>	
<b>Lead Internal Verifier (if appropriate)</b>		<b>Signature</b>		<b>Date</b>	

## Assignment brief

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

Assignment title	<b>Assignment 2: Event Driven Applications</b>
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### 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