

Business and IT Department

Assignment front sheet

Learner Name		Assessor Name					
Date issued	Completion date		Submitted on				
Monday 8 th September Monday 3 rd Nover		mber 2014					
Qualification		Unit number and title					
BTEC Level 3 Extende	ed Diploma in IT	Unit 6: Software Design and Development					
Assignment title Assignme	Assignment title Assignment 1 – Which Language?						
In this assessment you will have opportunities to provide evidence against the following criteria.							

Criteria reference	To achieve the criteria the student is able to:	e evidence must show that			Task no.	
P1		tion and limits of procedural, obje- gramming paradigms		Task 1		
P2	Describe the factors language	ming		Task 1		
P3	Explain sequence, selection and iteration as used in computer programming				Task 2	
P4	Outline the benefits the programmer	of having a variety of data types a	vailable to	Task 2		
Learner o	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 G approp	rade (if riate)		Points			

	Assessment Criteria Achieved (indicate with ✓ and initial)									
	P1	P2	Р3	P4						
1 st attempt Date										
Final attempt Date										



Assessor's comments

Qualification	BTEC Level 3 Extended Diploma in IT	Assessor name
Unit number and title	Unit 6: Software Design and Development	Learner name

Gradir	ng criteria			Assessor Feedback		
P1		lication and limits of ct oriented and event ing paradigms				
describe the factors influencing the choice of programming language						
P3		e, selection and iteration uter programming				
Outline the benefits of having a variety of data types available to the programmer						
	tional Assess on Plan	or Feedback (inclu	ding feedbad	ck for upgrade) and	C	ction ompleted by ate
Learr	ner Feedback					
Lear	ner		Signature		Date	
Asse	essor		Signature		Date	
Inte	rnal Verifier		Signature		Date	
Leac	l Internal fier (if					



Assignment brief

Qualification	BTEC Level 3 Extended Diploma in IT
Unit number and title	Unit 6: Software Design and Development
Start date	Monday 8 th September 2014
Deadline	Monday 29 th September 2014
Assessor name	

Assignment title	Assignment 1 – Which Language?	
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The purpose of this assignment is to:

- Know the features of programming languages
- Understand the principles of software design
- Be able to use tools to demonstrate software designs

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 a document to help attract prospective trainees to the software design and development courses. This will be used on the company's website via the information link.

P1 describe the application and limits of procedural, object oriented and event driven programming paradigms **P2** describe the factors influencing the choice of programming language

Task 1 (P1, P2)

To help novice programmers decide on which course they should do, create a document for the website that describes the application and limits of the following paradigms:- (P1)

- procedural programming
- object-oriented programming
- event driven programming

To help to inform any employers who are thinking of sending their staff on a "Lets Train U" course, you should add to your document a description of the factors that influence the choice of programming language. This should relate to the organisation, employees and policy. **(P2)**

Evidence

Document suitable for a web site



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P3 explain sequence, selection and iteration as used in computer programming **P4** outline the benefits of having a variety of data types available to the programmer

Task 2 (P3, P4)

You have been asked by your manager to give examples of a visual language to demonstrate its features. The code for your programs may be used as part of the training program for C#.Net.

As a developer, you know that before you start to write programs you need to be aware of the different data types available in the programming language you are using. You feel that this information is necessary for programming trainees so you decide to create a table containing data types that are commonly used. **(P4)**

Write a small selection of programs which give examples of the following: (note: all programs must be fully commented so that trainees are able to follow each part) **(P3)**

Features

- variables (naming conventions)
- input and output statements
- conditional (IF) statements
- case statements
- logical operators (<> AND OR)
- loops
- assignment statements

Evidence

Table of data types
Sample C#.Net programs internally documented