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**LEYTON SIXTH FORM COLLEGE – CENTRE NO: 13409**

**DEPARTMENT: COMPUTING AND IT**

**COURSE: BTEC L3 EXTENDED DIPLOMA IN IT - ACADEMIC YEAR 2013-2014**

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| **Student Name: Student ID: Teacher:** Mrs Niles-Brathwaite | | | | | | | |
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| **Unit No:** 24  **Unit Name:** Controlling Systems Using IT  **Internal Verifier:** Mr A Tahir **Date Verified:** 05/03/2014 | | | | | | | |
|  | | | | | | | |
| **Assignment No:** 1 **Assignment Title:** Introduction to Control Systems  **Assignment Given Out:** 14/03/2014 **Assignment Submission Date:** 28/04/2014  **Learning Outcome:** LO1: Understand the requirements of control systems | | | | | | | |
| **Task** | **Unit** | **Grading Criteria**  **Reference** | **Grading Criteria** | **Review Date** | **Grade Awarded** | **Date Achieved** | **Page No#** |
| **3** | **24** | **P1** | **explain types of control systems** | **22/04/2014** |  |  |  |
| **4** | **24** | **P2** | **explain the characteristics of digital and analogue control systems** | **04/04/2014** |  |  |  |
| **1** | **24** | **P3** | **illustrate the operation of different sensors and output devices** | **04/04/2014** |  |  |  |
| **5** | **24** | **M1** | **compare analogue and digital signals** | **04/04/2014** |  |  |  |
| **2** | **24** | **M2** | **explain the need for signal conversion** | **04/04/2014** |  |  |  |
| **Assignment Rules:**  Any work submitted after the deadline may not be marked. | | | | | | | |

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| **Student declaration**  I declare that all of the work submitted for this assignment is my own work or, in the case of group work, the work of myself and the other members of the group in which l have worked has not been copied from any source. I understand that if any part of the work submitted for this assignment is found to be plagiarised, none of the work submitted will be allowed to count towards the assessment of the assignment.  **Student Signature: Date:**  **Assessor Signature: Date**: |

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**ASSESSMENT FEEDBACK FORM**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Unit Number** | **24** | **Unit Title** | | Controlling Systems Using IT | | | |
| **Assignment Title** | Introduction to Control Systems | | | | **Resubmission Date** |  | |
| **Assessors Feedback (**please be specific, addressing the assessment and grading criteria**)** | | | | | | | |
| **Assessment Criteria to be addressed** | **Feedback from Assessor** | | | | | | **Achieved Yes/No** |
|  |  | | | | | |  |
| **Literacy Skills assessed for development** | | | | | | | |
| **Literacy issue assessed (please circle)** | | | **Comment for development** | | | | |
| **Structure, meaning, punctuation, spelling, referencing, bibliography, plagiarism or specify** | | |  | | | | |

**Signed: Student ………………………………………… Date: …………………….……..**

**Signed: (Assessor) ……………………………………… Date: …………………………..**

**IV Signature: ……………………………………………… Date: ……………………………**

**Scenario**

You have been employed by Dynamic Control Systems (DCS) and your job involves illustrating the operation of hardware and software used in control systems and the production of information and training material for various aspects of controlling systems using IT. You have been assigned a project by your line manager who is in charge of recruitment.

**Task 1**

The first thing you have to do is to illustrate the operation of different sensors and output devices to new recruits **(P3).**

**Task 2**

You are then expected to produce a short presentation explaining the need for signal conversion. **(M2)**

You have also been asked to prepare two information leaflets. These leaflets should be directed at people who have no detailed knowledge of control systems. They should be in A5 (folded A4) format and should include diagrams, photographs or other illustrations to make the text more accessible and add to the reader’s understanding of the text. The series titles have been left for you to decide, but the leaflets should contain the following details:

**Task 3**

* Leaflet 1 – An explanation of types of control systems.

Include examples to help with the description. **(P1)**

**Task 4**

* Leaflet 2 – An explanation of the characteristics of digital and analogue control systems. **(P2)**

**Task 5**

Include a comparison of analogue and digital signals in the leaflet that you produce in task 4. **(M1)**