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| **Qualification: :** Diploma for ICT Professionals - Systems and Principles  **Unit:** Systems Development | **Assessment title:** Warehouse System  **Version:**  ***(if applicable)*** |

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| **Deadline date:** 21/06/2016  You must hand the completed assessment in by the above date. | **Start date:** 31/05/2016 |

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| **Assessment conditions:** The assessment will take place at students’ discretion, including time made available by tutor as part of course.  **Location:** Classroom, home, work placement (if allowed).  **Security of work:** All work will be submitted electronically. Electronic work should be saved and clearly labelled with candidate name and number by students; this will then be collected by Assessor / Tutor at the end of the assessment. All submitted work will be kept securely.  **Supervision:** Supervised by Assessor in classroom environment. |

**Assessment Composition**

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| **Task** | **Evidence** | **Unit coverage (LO & AC references)** | **Grading ref** |
| 1. | Written Report - Electronic submission in MS Word | 2.1, 2.2, 2.3 | Pass (1 mark), Merit (2 marks), Distinction (3 marks) |
| 2. | Written Report - Electronic submission in MS Word | 2.4 ,2.5 , 4.4 , 4.7 , 5.1 | Pass (1 mark), Merit (2 marks), Distinction (3 marks) |
| 3. | Written Report - Electronic submission in MS Word | 1.1, 1.2, 1.3, 1.4, 4.1 | Pass (1 mark), Merit (2 marks), Distinction (3 marks) |
| 4. | Written Report - Electronic submission in MS Word | 3.1, 3.5, 4.2, 4.3, 4.6, 4.8, 5.2, 6.1, 6.2 | Pass (1 mark), Merit (2 marks), Distinction (3 marks) |
| 5 | Written Report - Electronic submission in MS Word | 3.2, 3.3, 3.4 | Pass (1 mark), Merit (2 marks), Distinction (3 marks) |

**Health and Safety**

You must always work safely, in particular while you are carrying out practical tasks.

You must always follow any Health and Safety regulations and codes of practice relevant to your work.

If your assessor observes you working in a way that is unsafe for yourself or others, they will ask you to stop immediately, and tell you why.

Your assessor will not be able to reassess you until they are sure you are ready for assessment and can work safely.

**Plagiarism**

It is your qualification, so it must be your own work.

Your assessor must be able to identify which work you have done yourself, and what you have found from other sources. It is therefore important to make sure you acknowledge all of your sources.

You assessor can show you how to do this for the assessment you are doing.

**Notes to candidates:**

* This assessment has been written to make sure you have the opportunity to show that you have met the learning outcomes of the unit.
* You will be marked against the assessment criteria of the unit and the grading criteria for the qualification. You should read these carefully before you start so you know what you need to do.
* You should make sure that you do your best in the assessment so that the evidence you hand in shows your best performance for this unit.
* You may ask your assessor for help in understanding the tasks, but all of the work you hand in must be your own work.
* If you have a good reason for needing more time, you will need to explain the reasons to your assessor and agree a new deadline date. Changes to dates will be at the discretion of the assessor, and the centre may not mark work that is handed in after the agreed deadlines.

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| **Scenario/context:**  Two years ago, your client started to brew, bottle and supply a new craft beer. It was a successful venture and demand soon started to outstrip supply. This first expansion led to listing as a company and the need to provide systems for the gathering and collating of information for the purpose of meeting legal requirements. An off the shelf payroll system provided all the functionality needed.  Demand has continued to increase, so production must become more efficient. One of the approaches involves automating the Warehouse System.  The Warehouse stores the raw ingredients for the production of beer, and also stores the finished product.  The ingredients are purchased from a Supplier (or Suppliers) using a Purchase Order. A Delivery Note and Invoice are received from the supplier, and the physical goods are delivered.  A copy of the PO is held at Accounts and when the Matching Invoice is supplied, the Supplier is paid. Quantities, based on another copy of the PO held by the Purchaser, are updated in the Stock Control. The Purchaser can generate an ad hoc Stock Report to ensure that quantities are maintained at optimum level.  The product is supplied by Production, who update Stock figures at the end of each working day.  The Customer initiates a transaction by submitting a Customer Order to Sales & Marketing, who input it onto the Warehouse System. A Despatch Note is generated and sent to the Customer, along with the physical goods. A copy of the DN Is matched with its CO and sent to Accounts, who issue an Invoice to the Customer and process the payment. |

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| **Task 1:**  Create a Customer Requirements Report based on the scenario above |
| **Evidence to be handed in:**  Written Report MS Word document – Electronic submission |

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| **Task 2:**  Convert the non-technical output from task 1 into a Requirements Specification document. |
| **Evidence to be handed in:**  Witten Report MS Word document – Electronic submission |

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| **Task 3:**  Select an appropriate life cycle model and plan how the software will be designed, developed, tested etc. Planning document should include some or all of the following:   * GANTT, PERT chart or similar that clearly identifies the stages of development * Contingency planning document * Diagrammatic outline of systems life cycle * Comprehensive details of each stage of the selected life cycle * Deliverables * Test plan |
| **Evidence to be handed in:**  Written Report MS Word document – Electronic submission |

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| **Task 4:**  Create a System Implementation Procedure manual that gives detailed information about the handover to the client including system changeover, training for staff, maintenance etc. Give some consideration to   * Agreed timescales * Testing procedures * Maintenance planning/ procedures * Any security requirements * Documentation required * Training requirements * The selected changeover methodology * The arrangements for version control |
| **Evidence to be handed in:**  Word document – Electronic submission |
| **Task 5:**  Document the maintenance plan of the system that you have defined. Create a Maintenance activity recording form for use by the maintenance team that contains all information the will need to maintain the system and monitor its performance. |
| **Evidence to be handed in:**  Word document – Electronic submission |

**Now make sure you have:**

* **filled in the front sheet correctly for all of your written work including the declaration of authenticity**
* **Labelled any loose sheets or products carefully with your name and the qualification and assessment titles, and date.**