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|  | Unit 2 Information Technology IT PathwaysOutcome 1 |  |

TASK ASSESSMENT CRITERIA SHEET

**On completion of this unit, students should be able to apply the problem-solving methodology and use appropriate software tools to create data visualisations that meets users’ needs.**

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|  | TASK COMPONENT | **MARKS ALLOCATED** |  |
|  | **TASK 1: ANALYSIS** | (28 marks) |  |
|  | **Identify the following:**  |  |  |
|  | 1. the factors that affect the problem
	* Constraints – list X 3
	* Limitations – list X 3
 | 33 |  |
|  | 1. the data visualisation needs of the user (Requirements)
	* Answer Questions i – vi
	* How is the organisation going to use the information?
	* In what format does the solution need to be presented?
 | 4 |  |
|  | 1. the data visualisation products to be produced to meet the user’s needs (Scope) (Types of data visualisations)
 | 6 |  |
|  | 1. appropriate sources of data that must be processed to produce the solution
 | 4 |  |
|  | 1. Write out a clear Problem Statement.
 | 4 |  |
|  | 1. List the Evaluation Criteria that will be used to evaluate the solution
 | 4 |  |
|  |  |  |  |
|  | **TASK 2: DESIGN** | (28 marks) |  |
|  | **Design the solution** |  |  |
|  | 1. use of techniques including flowcharts, storyboards or layout diagrams for all aspects of the output
 | 10 |  |
|  | 1. which software and hardware are most suitable for producing the data visualisation
 | 6 |  |
|  | 1. annotate your output designs with all the formats and conventions that will be used in the data visualisations (1/2 mark for each one)
 | 6 |  |
|  | 1. selection of the test data and creation of test table
 | 6 |  |
|  |  |  |  |
|  | **TASK 3: DEVELOPMENT** | (28 marks) |  |
|  | Develop data visualisations  |  |  |
|  | 1. producing clear and concise data visualisations
 | 12 |  |
|  | 1. showing the source of the data that you are using
 | 2 |  |
|  | 1. ensuring that you have correct headings, axis labels and measurements to ensure clarity in the data visualisation
 | 3 |  |
|  | 1. Produce a slideshow
 | 5 |  |
|  |  |  |  |
|  | Testing of spreadsheet solution: Functionality Testing |  |  |
|  | Completion of the test plan with the appropriate results | 6 |  |
|  |  |  |  |
|  | **TASK 4: EVALUATION** | (16 marks) |  |
|  | Evaluate the solution |  |  |
|  | 1. prepare an evaluation feedback form
 | 4 |  |
|  | 1. gain feedback from the known audience
 | 4 |  |
|  | 1. Discuss the likely impact on the ability of the user to make clear decisions
 | 8 |  |
|  |  |  |  |
|  |  | **100** |  |

Comment: Grade: