|  |  |  |
| --- | --- | --- |
|  | 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.**

## 

|  |  |  |  |
| --- | --- | --- | --- |
|  | 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 | 3  3 |  |
|  | 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: