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## Teacher Guide to Assessment

### Unit 6: Software Development – Design

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#### INTRODUCTION

There are seven tasks identified in the [Assessment Evidence Grid](#) for this unit. The seven tasks must be set as a single scenario with all seven tasks being completed using the same organisation.

Task **a** requires candidates to be able to identify a range of tools and techniques which can be used during the analysis stage. The identification may be done from a theoretical standpoint but candidates will need to apply this theoretical knowledge to the scenario. Candidates should explain the advantages and disadvantages of the identified range of tools and techniques with reference to the scenario.

Task **b** requires candidates to be able to identify a range of tools and techniques which can be used during the design stage. The identification may be done from a theoretical standpoint but candidates will need to apply this theoretical knowledge to the scenario. Candidates should explain the advantages and disadvantages of the identified range of tools and techniques with reference to the scenario.

Task **c** requires the candidates to identify the range of investigative methods which can be used when designing a computer solution. The candidates should explain the methods and select the most appropriate method that could be used to investigate the given scenario, justifying their choices.

Task **d** involves the production of a report detailing the results of their analysis and the development of a proposed solution to the problem given in the scenario. The candidates should use the tools and techniques which they identified as being appropriate in tasks **a**, **b** and **c**. This report consolidates the research and identification which the candidates have undertaken in Tasks **a**, **b** and **c**.

Task **e** requires the candidates to produce a complete data flow model for the proposed solution. The data flow model should include appropriate diagrammatical representation of the proposed solution with accompanying documentation. It is important that the data flow model directly relates to the solution proposed by the candidates and to the given scenario.

Task **f** requires the candidates to produce a complete logical data model for the proposed solution. The logical data model should include appropriate diagrammatical representation of the proposed solution with accompanying documentation. It is important that the logical data model directly relates to the solution proposed by the candidates and to the given scenario.

Task **g** is concerned with the evaluation of the proposed solution. Candidates should evaluate their solution detailing the advantages and disadvantages that the proposed solution will bring to the organisation in the scenario. They should also reflect on their own experiences identifying how they could improve their own performance.