Unit 4: Modelling or problem-solving task – sample assessment record

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**Outcome 1 (5 marks)** *Define and explain key concepts as specified in the content for the module*

*and apply related mathematical techniques and models in routine contexts*

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| **Criterion** | **Marks** | **1** | **2** | **3** | **4** | **5** |
| Appropriate use of mathematical conventions, symbols and terminology | |  |  |  |  |  |
| Definition and explanation of key concepts | |  |  |  |  |  |
| Accurate use of mathematical skills and techniques | |  |  |  |  |  |
|  | | **Outcome 1 Total** | | |  | |

**Outcome 2 (10 marks)** *Select and apply the mathematical concepts, models and techniques for the* ***selected module*** *in a range of contexts of increasing complexity.*

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| **Criterion** | **Marks** | **1** | **2** | **3** | **4** | **5** |
| Identification of important information, variables and constraints | |  |  |  |  |  |
| Application of mathematical ideas and content from the specified areas of study | |  |  |  |  |  |
| Analysis and interpretation of results | |  |  |  |  |  |
|  | | **Outcome 2 Total** | | |  | |

**Outcome 3 (5 marks)** *Select and appropriately use numerical, graphical, symbolic and statistical functionalities of technology to develop mathematical ideas, produce results and carry out analysis in situations requiring problem-solving, modelling or investigative techniques or approaches.*

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| **Criterion** | **Marks** | **1** | **2** | **3** | **4** | **5** |
| Appropriate selection and effective use of technology | |  |  |  |  |  |
| Application of technology | |  |  |  |  |  |
|  | | **Outcome 3 Total** | | |  | |
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|  | | **Task Total** | | |  | |

**Modelling or problem-solving task – pointers for assessment**

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**Selected module**

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| Outcome 1  Define and explain key concepts as specified in the content ***for the selected module*** and apply related mathematical techniques and models in routine contexts | |
| Appropriate use of mathematical conventions, symbols and terminology | |
| Application of mathematical ideas and content from the specified areas of study | |
| Accurate use of mathematical skills and techniques | |
| Outcome 2  Select and apply the mathematical concepts, models and techniques ***for the selected module*** in a range of contexts of increasing complexity. |
| Identification of important information, variables and constraints |
| Definition and explanation of key concepts |
| Analysis and interpretation of results |

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| Outcome 3  Select and appropriately use numerical, graphical, symbolic and statistical functionalities of technology to develop mathematical ideas, produce results and carry out analysis in situations requiring problem-solving, modelling or investigative techniques or approaches. |
| Appropriate selection and effective use of technology |
| Appropriate selection and effective use of technology |