

Unit 1 Applied Computing – 2024

Outcome 2 Programming – Template for developing an assessment task – Blank

Outcome 2		Assessment task development
On completion of this unit the student should be able to interpret teacher-provided solution requirements to design, develop and evaluate a software solution using a programming language.		
Key knowledge	Key skills	
<ul style="list-style-type: none"> functions and capabilities of key hardware and software components of digital systems required for processing, storing and communicating data and information features of functional and non-functional solution requirements, constraints and scope 	<ul style="list-style-type: none"> analyse solution requirements to develop a software solution 	
<ul style="list-style-type: none"> design tools for representing the functionality and appearance of solution designs such as data dictionaries, mock-ups and pseudocode 	<ul style="list-style-type: none"> select and use appropriate design tools to represent solution designs 	
<ul style="list-style-type: none"> characteristics of data types types of data structures formatting and structural characteristics of input and output such as file formats 	<ul style="list-style-type: none"> use a range of data types and data structures 	
<ul style="list-style-type: none"> naming conventions for solution elements such as files, functions, methods and variables processing features of a programming language characteristics of internal documentation 	<ul style="list-style-type: none"> develop a software solution using appropriate processing features of a programming language 	
<ul style="list-style-type: none"> testing and debugging techniques to ensure software solutions meet requirements such as test tables and test data 	<ul style="list-style-type: none"> design and apply suitable testing and debugging techniques using appropriate test data 	
<ul style="list-style-type: none"> techniques for evaluating the efficiency and effectiveness of software solutions 	<ul style="list-style-type: none"> evaluate the efficiency and effectiveness of the software solution to meet requirements 	
<ul style="list-style-type: none"> project plans to coordinate and monitor the tasks, including sequencing and time allocation to create software solutions 	<ul style="list-style-type: none"> document and monitor project plans using software 	