
VCE UNITS INFORMATION

VCE Computing: Software Development Units 3 and 4

CONTENT

Unit 3

In Unit 3, you will apply the problem-solving methodology to develop working software modules using a programming language. You will respond to teacher-provided solution requirements and designs and develop a set of working modules through the use of a programming language. You will examine a simple software requirements specification and a range of software design tools in order to apply specific processing features of a programming language to create working modules. You will analyse a need or opportunity, select an appropriate development model, prepare a project plan, develop a software requirements specification and design a software solution.

Unit 4

In Unit 4, you will focus on how the information needs of individuals and organisations are met through the creation of software solutions. You will consider the risks to software and data during the software development process, as well as throughout the use of the software solution by an organisation. You will develop your preferred design into a software solution and evaluate the solution, chosen development model and project plan. You will examine the security practices of an organisation and the risks to software and data during the development and use of the software solutions. You will evaluate the current security practices and develop a risk management plan.

OUTCOMES

Unit 3

- You will interpret teacher-provided solution requirements and designs, and apply a range of functions and techniques using a programming language to develop and test working software modules
- You will analyse and document a need or opportunity, justify the use of an appropriate development model, formulate a project plan, generate alternative design ideas and represent the preferred solution design for creating a software solution

Unit 4

- You will develop and evaluate a software solution that meets requirements, evaluate the effectiveness of the development model and assess the effectiveness of the project plan
- You will respond to a teacher-provided case study to examine the current software development security strategies of an organisation, identify the risks and the consequences of ineffective strategies and recommend a risk management plan to improve current security practices

ASSESSMENT

Students will complete a range of tasks during the course, including a written report, design folio, software solution, and case study with structured questions.

Unit 3		Unit 4	
School Assessed Coursework	10%	School Assessed Coursework	10%
School Assessed Task for Unit 3 Outcome 2 and Unit 4 Outcome 1 will contribute 30% to the study score			
Units 3 and 4 VCE Computing: Software Development examination will contribute 50% to the study score			