VCE UNITS INFORMATION

VCE Applied Computing Units 1 and 2

CONTENT

Unit 1

In Unit 1, you will be introduced to the stages of the problem-solving methodology. You will focus on how data can be used within software tools such as databases and spreadsheets to create data visualisations, and the use of programming languages to develop working software solutions. You will respond to a teacher-provided analysis of requirements and designs to identify and collect data in order to present your findings as data visualisations. You will present work that includes database, spreadsheet and data visualisations solutions. You will select and use a programming language to create a working software solution. You will prepare, document and monitor project plans.

Unit 2

In Unit 2, you will focus on developing innovative solutions to needs or opportunities that you have identified, and propose strategies for reducing security risks to data and information in a networked environment. You will work collaboratively and select a topic for further study to create an innovative solution in an area of interest. The innovative solution can be presented as a proof of concept, a prototype or a product. You will investigate networks and the threats, vulnerabilities and risks to data and information. You will propose strategies to protect the data accessed using a network.

OUTCOMES

Unit 1

- You will interpret teacher-provided solution requirements and designs, collect and manipulate data, analyse patterns and relationships, and develop data visualisations to present findings
- You will interpret teacher-provided solution requirements to design, develop and evaluate a software solution using a programming language

Unit 2

- In collaboration with other students, you will analyse, design, develop and evaluate an innovative solution to an identified need or opportunity involving a digital system
- You will respond to a teacher-provided case study to examine the capabilities and vulnerabilities of a network, design a network solution, discuss the threats to data and information, and propose strategies to protect the security of data and information

ASSESSMENT

Assessment for these units will be based on the student's performance on a selection of assessment tasks. These could include: folio of exercises, presentation (oral, multimedia, visual), written report, annotated visual report, or case study with structured questions.