**Philip Feain –** Hello and welcome to the VCE Applied Computing Study Design 2025 to 2028 on-demand video. The purpose of this video is to support teachers with understanding Unit 1 Outcome 2 Applied Computing. The purpose of this presentation is to: provide an overview of Unit 1 Outcome 2 Applied Computing, discuss the major changes to Unit 1 Outcome 2, look at the software tools, look at the outcome statement, go through the key knowledge, look at the key skills and look at the assessment tasks.

In the following slides, we'll have an overview of Unit 1 Outcome 2. There have been several major changes to Unit 1 Outcome 2 Applied Computing. Emerging trends and object-oriented programming have been added. Project management has been removed and the assessment tasks have been updated. There have also been some other minor changes, edits and updates. Students are required to both study and use an object-oriented programming language in this unit. The outcome statement for Unit 1 Outcome 2 has been updated. Students should be able to interpret teacher-provided solution requirements to design and develop a software solution using an object-oriented programming language. The key knowledge and the layout of the content has been updated to make more use of such as and to list the items after the such as in a vertical list.

The key knowledge here includes emerging trends in programming languages and artificial intelligence-based code generators and characteristics of data types. Types of data structures, characteristics of functional and non-functional requirements, constraints and scope, and design tools for representing the functionality and the appearance of solution designs. Key legal requirements related to intellectual property and copyright, principles of object-oriented programming and features of a programming language. Naming conventions for solution elements, purposes of internal documentation and validation techniques for data, and debugging and testing techniques. The key skills for Unit 1 Outcome 2 have been updated and mapped directly to the key knowledge.

Assessment tasks have been updated and there are now suitable assessment tasks listed for Unit 1 Outcome 2. Teachers can choose from the following: A folio of exercises to demonstrate the learning of an object-oriented programming language. A software solution that includes the designs, solution and a testing table in response to teacher-provided solution requirements. The creation and maintenance of code repositories to track the progression of students' learning using platforms such as GitHub. And a software solution developed in response to a teacher-provided problem-solving challenge presented as a hackathon.

Thank you for following this presentation. If you have any questions regarding this presentation or the VCE Applied Computing Study Design, you can contact Phil Feain, the Digital Technologies Curriculum Manager, at the contact details below.

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