**Phil Feain -** Hello and welcome to this VCE Data Analytics School-assessed Task on-demand video for the School-assessed Task in 2024. The purpose of Video 3 is to support teachers with understanding Unit 4 Outcome 1, the SAT, Criteria 6-10, authentication and assessment for Data Analytics. My name is Phil Feain and I'm the Curriculum Manager for Digital Technologies with the VCAA. This presentation will involve the following topics: the nature of the task, SAT Criteria 6-10, authentication and assessment.

Now we'll look at the nature of the task for Unit 4 Outcome 1. Before we discuss the nature of the task, we need to look at the outcome statement. The Unit 4 Outcome 1 statement says: Develop and evaluate infographics or dynamic data visualisations that present findings in response to a research question, and assess the effectiveness of the project plan in monitoring progress. The nature of the task for Unit 4 Outcome 1 is stated in the study design and in the Administrative information for School-based Assessment. It involves infographics or dynamic data visualisations that present findings in response to a research question And an evaluation of the efficiency and effectiveness of infographics or dynamic data visualisations, an assessment of the effectiveness of the project plan in monitoring project progress in one of the following: a written report or an annotated visual plan.

The following slides reference the Administrative information for School-based Assessment for Data Analytics. We'll unpack Criteria 6-10 by looking at the scope of the task for each criterion and an approach for completing the task.

Criterion 6 assesses students' skills in using database and/or spreadsheet software. Students will use a database and/or spreadsheet software tools to store and manipulate data, apply appropriate validation techniques and document testing using suitable testing techniques and test data. Students are required to use appropriate software tools to manipulate data that meets the software requirements of the study. Students will document evidence of their critical and creative thinking through the modification of their designs and evaluation criteria as part of the Development Stage in Criterion 6.

Criterion 8 assesses students' skills in managing files. Students will document the procedures for the management of files and propose and implement procedures to manage the security of files. Evidence from this task is observed through Observation 6 and assessed through Criteria 6 and 8.

This is Criterion 6, which involves skills in using database and/or spreadsheet solution. In this criterion, students are to: Use database and/or spreadsheet software tools to store and manipulate data, Apply appropriate validation techniques, Document the use of suitable testing techniques and test data and Document evidence of critical and creative thinking through the modification of designs and evaluation criteria for solution development.

Criterion 7 assesses students' skills in using data visualisation software. Students will use a data visualisation software tool to create infographics or dynamic data visualisations, apply appropriate validation and verification techniques and document testing using suitable tests and test data. Students are required to use appropriate software tools to manipulate data that meets the software requirements of the study. Students will document evidence of their critical and creative thinking through the modification of their designs and evaluation criteria as part of the Development Stage in Criterion 7.

Criterion 8 assesses students' skills in managing files. Students will document the procedures for the management of files and propose and implement procedures to manage the security of files. Evidence of this task is observed through Observation 7 and assessed through Criteria 7 and 8.

This is Criterion 7, which involves skills in using data visualisation software. In this criterion, students are to: Use data visualisation software tools to create infographics or dynamic data visualisations, Apply appropriate validation and verification techniques, Document the use of suitable testing techniques to ensure the solution performs as intended and Document evidence of critical and creative thinking through the modification of designs and evaluation criteria. Students are required to use appropriate software tools to manipulate data that meets the software tools and functions document. Appropriate functions, techniques and procedures for the selected software tools are to be used, along with techniques for creating the infographics or dynamic data visualisations and techniques for validating and verifying data. Students may choose to create either infographics or dynamic data visualisations. They do not create both. And students can choose to achieve this requirement in a number of ways.

Students should robustly test their database, spreadsheet and infographics or dynamic data visualisation solutions to fully ensure that they meet the requirements of the area of study. Functionality and validation testing are expected to be documented through the use of testing tables. Testing tables are to include both expected and actual results, along with clear descriptions of the test to be performed and the test data used in each test. And students should be encouraged to include in their documentation all tests that have failed, including actions and mitigations taken, in order to demonstrate the changes made as a result of a robust testing process.

This is Criterion 8, which involves skills in managing files. In this criterion, students are to: Document procedures for the management of files and Propose and implement procedures to manage the security of files. Students need to document their procedures for the handling and managing of files and the security of files. Refer to the first key knowledge dot point in Unit 4 Outcome 1 in the study design. Procedures and techniques for handling and managing files, including archiving, backing up, disposing of files and security.

Criterion 9 assesses students' skills in evaluating the solution. Students will propose strategies for evaluating the efficiency and effectiveness of the infographics or dynamic data visualisations and evaluate the efficiency and effectiveness of the infographics or dynamic data visualisations in meeting requirements. Students will document evidence of their critical and creative thinking through the evaluation of the analysis, design and development stages and improvements to the solution as part of the Evaluation Stage in Criterion 9. Evidence from this task is observed through Observation 8 and assessed through Criterion 9.

This is Criterion 9, which involves skills in evaluating the solution. In this criterion, students are to: Propose strategies for evaluating the effectiveness of the infographics or dynamic data visualisations, Document the evaluation of the efficiency and effectiveness of infographics or dynamic data visualisations in meeting requirements and Document evidence of critical and creative thinking through the evaluation of the analysis, design and development stages and improvements to the solution. Students should use their evaluation criteria developed in Unit 3 Outcome 2 when evaluating the efficiency and effectiveness of their infographics or dynamic data visualisations. And the proposed evaluation strategy should evaluate the extent to which the infographics or dynamic data visualisations present the findings of the research question.

Criterion 10 assesses students' skills in assessing the project plan. Students will document the modifications made to the initial project plan throughout the duration of the project and then assess the effectiveness of the project plan. Evidence from this task is observed through Observation 9 and assessed through Criterion 10.

This is Criterion 10, which involves skills in assessing the project plan. In this criterion, students are to: Document the modifications made to the initial project plan throughout the duration of the project and Assess the effectiveness of the project plan.

Throughout the SAT process, students should be collecting evidence to support the assessment of the project plan in managing the project. Evidence may take the form of progress journals, annotations to the project plan, screenshots of infographics or dynamic data visualisations, photographs of design iterations and annotated draughts of diagrams.

Just a quick look over authentication as this is covered in more detail in the Background to the SAT video and Authentication video. Teachers are to fill out these forms during the year. They are to: state the date of the observation and submission of each of the components of the SAT, comment on the observation and submission of each of the components, and sign their initials for each observation and submission. Students are also required to sign their initials for each observation and submission. At the completion of the unit, students are to sign and date the declaration that all resource materials and assistance used have been acknowledged and that all unacknowledged work is their own.

The Authentication record form should be updated for each observation and submission during the lifetime of the SAT. It should not be left to the end of the SAT. Authentication record forms can be requested as part of the audit process by the VCAA. And finally, looking at the assessment of the SAT. This is the assessment sheet for scores to be added and submitted through VASS. All 10 criteria for the SAT are listed on this page with space provided for each of the scores. The last five scores, Criteria 6-10, will be filled out for the SAT in Unit 4 Outcome 1.

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

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