

VCE Systems Engineering 2019–2023

Written examination – End of year

Examination specifications

Overall conditions

The examination will be sat at a time and date to be set annually by the Victorian Curriculum and Assessment Authority (VCAA). VCAA examination rules will apply. Details of these rules are published annually in the *VCE and VCAL Administrative Handbook*.

There will be 15 minutes reading time and 1 hour and 30 minutes writing time.

The examination will be marked by a panel appointed by the VCAA.

The examination will contribute 30 per cent to the study score.

Content

The *VCE Systems Engineering Study Design 2019–2023* is the document for the development of the examination. All outcomes in Units 3 and 4 will be examined.

All of the key knowledge and key skills that underpin the outcomes in Units 3 and 4, and the content found in the section ‘Cross-study specifications’ (pages 9–13), are examinable.

Format

The examination will be in the form of a question and answer book.

The examination will consist of two sections.

Section A will consist of 20 multiple-choice questions and will be worth a total of 20 marks.

Section B will consist of short-answer and extended-answer questions and will be worth a total of 80 marks.

The examination will include a range of question types that will require students to diagrammatically represent systems, perform calculations, plan, design and evaluate. The design scenario(s) in the examination will consist of diagrammatic representations and other stimulus material that may take the form of technological systems, equipment, graphs and tables.

A detachable insert of miscellaneous formulas will be included in the centrefold.

All questions will be compulsory. The total marks for the examination will be 100.

Answers to Section A are to be recorded on the answer sheet provided for multiple-choice questions.

Answers to Section B are to be recorded in the spaces provided in the question and answer book.

Approved materials and equipment

- Normal stationery requirements (pens, pencils, highlighters, erasers, sharpeners and rulers)
- One scientific calculator

Relevant references

The following publications should be referred to in relation to the VCE Systems Engineering examination:

- *VCE Systems Engineering Study Design 2019–2023*
- *VCE Systems Engineering – Advice for teachers 2019–2023*
- *VCAA Bulletin*

Advice

During the 2019–2023 accreditation period for VCE Systems Engineering, examinations will be prepared according to the examination specifications above. Each examination will conform to these specifications and will test a representative sample of the key knowledge and key skills from all outcomes in Units 3 and 4, and the content found in the section ‘Cross-study specifications’ in the study design (pages 9–13).

Examination questions may relate to one or more areas of study. The weighting of examination questions will reflect approximately the weighting of the outcomes in the study design.

Students should use command/task words, other instructional information within questions and corresponding mark allocations to guide their responses.

A separate document containing sample questions will be published by the end of Term 1 in 2019.