

VCE Product Design and Technology: Unpacking SAT Criteria 5 to 9

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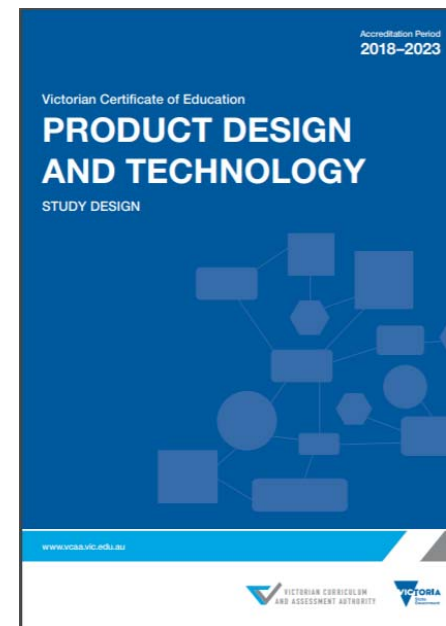
Simon Van Dillen, State
Reviewer



Current study design

- The accreditation period for VCE Product Design and Technology Study Design is from 2018 to 2023

<https://www.vcaa.vic.edu.au/curriculum/vce/vce-study-designs/productdesign-and-technology/Pages/Index.aspx>



Administrative information for School-based Assessment

- Updated annually and published on VCE Product Design and Technology study page of the VCAA website

<https://www.vcaa.vic.edu.au/curriculum/vce/vce-study-designs/productdesign-and-technology/Pages/Index.aspx>

- Contains mandated assessment criteria
- Notification of its publication is published in the February VCAA Bulletin.

School-assessed Task

Units 3 and 4

- **Contributes 50 per cent to the study score**
- **Commenced in Unit 3 and completed in Unit 4.**

School-assessed Task

- The Authentication record form is to be used to record information for each student and must be made available on request by the VCAA.
- Further information about authentication can be found in the Authentication video that is part of this suite of videos.
- Teachers should be aware of the dates of submission of scores into VASS in **July and November**. LC1 GO1 These dates are published in the Important Administrative Dates and Assessment Schedule, published annually on the VCAA website:
www.vcaa.vic.edu.au/pages/schooladmin/admindates/index.aspx

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LC1

Geoff, does this reflect the updated info?

Leanne Compton, 30/11/2021

GO1

yes

Geoffrey O'Neill, 1/12/2021

Unit 3 - Applying the product design process

- **Outcome 3**
- **On completion of this unit the student should be able to document the product design process used to meet the needs of an end user/s, and commence production of the designed product.**
- **Nature of task** A folio comprising:

– an end user/s profile	– working drawings of final option
– a design brief	– a scheduled production plan
– evaluation criteria	– a list of relevant processes used for larger scale production
– research	– a record of production progress and documentation of decisions and modifications
– design options and justification	

SAT assessment criteria 5

- Ability to document understanding of and judgments about suitability of materials and production processes, tools, equipment and machines, and identify how the product would be manufactured in industry

Indicators

- Documents suitability of materials and production processes, tools, equipment and machines
- Identifies how product would be manufactured in industry

SAT assessment criteria 5

- Documents suitability of materials and production processes, tools, equipment and machines
 - To achieve a very high for this indicator, students need to 'assess' the suitability.
 - This could undertaken, but not limited to, through primary research of material and process testing.

SAT assessment criteria 5

- Identifies how product would be manufactured in industry
 - Students should refer to the scales of manufacturing

Unit 4–Product development and evaluation

Outcome 2

On completion of this unit the student should be able to apply a range of production skills and processes safely to make the product designed in Unit 3, and manage time and resources effectively and efficiently

Nature of task

Unit 4 Outcome 2

Apply a range of production skills and processes safely to make the product designed in Unit 3, and manage time and resources effectively and efficiently.

AND

- A functional product that conforms to standards of quality indicated in the design brief outline of context.

- Production work accompanied by a record of production progress and documentation of modifications with justification of these changes (text and images should be included).

SAT assessment criteria 6

- Skill in the application of appropriate processes, including risk management and recording progress

Indicators

- Follows scheduled production plan
- Demonstrates record of progress including end-user feedback
- Uses appropriate processes with a level of complexity
- Demonstrates risk management

SAT assessment criteria 6

- Follows scheduled production plan
 - Teacher observation during production stage, checked against the student's production planning and documented modifications or changes.
- Demonstrates record of progress including end-user feedback
 - Can be any format.

SAT assessment criteria 6

- Uses appropriate processes with a level of complexity
 - The student must independently undertake these processes to be able to achieve a 'very high'
 - Important that the student is taught process first (before assessment of the process).
 - There is a level of precision and technical skill needed too.
- Demonstrates risk management
 - Teacher observation during production stage

SAT assessment criteria 7

- Skill in project management and justifying modifications in realising the preferred option

Indicators

- Uses project management skills
- Justifies modifications including end-user/s feedback

SAT assessment criteria 7

- Uses project management skills
 - Manages time and demonstrates organisation
 - Teacher observation during production
- Justifies modifications including end-user/s feedback
 - To produce the preferred option
 - Using feedback from real end-users

SAT assessment criteria 8

- Skill in developing a quality product that is creative and innovative

Indicators

- Produces a quality innovative and creative product
- Links product to design brief
- Follows scheduled production plan and modifications

SAT assessment criteria 8

- Produces a quality innovative and creative product
 - Quality matches what the student stated in the design brief.
 - Innovative and creative – what makes it different to other products on the market?
- Links product to design brief
 - Does it meet the design brief and all constraints and considerations?
- Follows scheduled production plan and modifications
 - Does it meet requirements of the production plan and modifications?

Unit 4 - Product development and evaluation

Outcome 3

- On completion of this unit the student should be able to evaluate the finished product through testing and feedback against criteria, create end user/s' instructions or care labels and recommend improvements to future products

Nature of task

Outcome 3

Evaluate the finished product through testing and feedback against the criteria, create end-user/s' instructions or care labels and recommend improvements to future products.

AND

- A written report that includes evaluation of the product.

AND

- Relevant end-user/s instructions or care labels which highlight the features, assembly, care and/or repair of the product in any of the following formats: video tutorials, annotated image of the product or other multimedia format.

SAT assessment criteria 9

- Skill in evaluating the finished product; user instructions/care labels which communicate product features, care, use and/or assembly

Indicators

- Evaluates finished product using criteria and end-user/s' feedback
- Identifies areas for improvement
- Creates user instructions/care labels to communicate product features, care, use and/or assembly

SAT assessment criteria 9

- Evaluates finished product using criteria and end-user/s' feedback
 - Use the evaluation criteria the students developed in criterion 1
 - Must undertake testing
 - To achieve a 'very high', students need to assess the results of each test and present these findings.

SAT assessment criteria 9

- Identifies areas for improvement
 - To achieve a 'very high' students need to justify, for example, using data collected from testing the product, using feedback from the end user/s etc.
 - Students can look at the entire design process to see areas which could be enhanced to produce an improved product.

SAT assessment criteria 9

- Creates user instructions/care labels to communicate product features, care, use and/or assembly
 - Need to show understanding of features, care, use and/ or assembly.
 - Need to explain the relevant information end users may require

SAT Q&A webinar

- A Q&A webinar related to the SAT will be held in Term 1. Refer to the VCAA February Bulletin for details of the date and how to register. LC1
GO2
- Any questions, information or clarification you would like to be covered during this webinar, please email to Leanne Compton leanne.compton@education.vic.gov.au

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LC1

Geoff are you fine with this description?

Leanne Compton, 30/11/2021

GO2

yes

Geoffrey O'Neill, 1/12/2021