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# VCE UNITS INFORMATION

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## VCE Product Design and Technology Units 1 and 2

### CONTENT

#### Unit 1

In this unit, students use the product design process (with reference to product design factors) to investigate, design, produce and evaluate a re-developed product. Students focus on the analysis, modification and improvement of an existing product design with consideration of the materials used and issues of sustainability. Knowledge of material use and suitability for particular products is essential in product design. Additionally, knowledge of the source, origin and processing of materials is central to sustainable practices. Students consider the use of materials from a sustainable viewpoint.

#### Unit 2

In this unit, students work in teams to design and develop an item or items in a product range or contribute to the design, planning and production of a group product. They focus on factors including: user-centred needs and wants; function, purpose and context for product design; aesthetics, materials and sustainability; and the impact of these factors on a design solution. In this unit, students are able to gain inspiration from an historical and/or a cultural design movement or style and its defining factors such as ideological or technological change, philosophy or aesthetics.

### OUTCOMES

#### Unit 1

Area of Study 1 provides an introduction and structured approach towards the product design process and product design factors. Students perform a sustainability analysis on the work of a designer and on an existing product and acknowledge the intellectual property (IP) rights of the designer.

In Area of Study 2, students produce a redesigned product using tools, equipment, machines and materials safely, compare it with the original design and evaluate it against the needs and requirements outlined in their design brief.

#### Unit 2

In Area of Study 1, students work both individually and as members of a small design team, to address a problem, need or opportunity and consider user-centred design factors. They should be able to design a product within a range, based on a theme, or a component of a group product. They should be able to research and refer to a chosen design style or movement.

In Area of Study 2, students justify, manage and use appropriate production processes to safely make the product, which is then evaluated.