Instructions for Teachers

This document and the information contained within is to be made available to centres by 1 June 2017 to allow teachers to plan and resource the Controlled Assessment Task.

The information is not to be disclosed to candidates until 1 September 2017.

Assessment Summer 2018.
Controlled Assessment Task

It is a requirement of the specification that candidates complete a 30 hour design, make and evaluate task. Teachers are required to monitor and verify that the time limit is adhered to and that the contributions of individual candidates are recorded accurately and that plagiarism does not take place.

Candidates will not gain additional credit by exceeding the time limit.

The task can be carried out in the normal classroom/workshop environment.

Candidates are allowed supervised access to resources that may include information gathered outside the 30 hours of controlled assessment time.

Candidates may gather research/inspirational material prior to or during the assessment period and this can be referred to during the task but this material is not to be included in the material to be assessed. No graphical work prepared by the candidate or others outside the control rules is to be submitted as part of the task.

Candidates may collaborate/confer with others in relation to the task but all assessed material must be the candidates' work only.

The supervising teacher can give candidates limited guidance during the task in order to clarify what is to be done and to ensure that safe working practices are adhered to.

All graphical and written work entered for this controlled assessment must be submitted on the pre-printed pages which are available for download from the WJEC website. The task must not exceed the 15 A3 pages provided. Candidates are free to use ICT applications where they are appropriate.

It is the responsibility of the centre to ensure the reliability and authenticity of all work presented for this controlled assessment. Teachers and students will be required to sign a declaration that all work presented is the work of the candidate alone. Failure to authenticate the work may result in grades being delayed or refused.

Further details of the assessment period, including the assessment criteria, can be found in Section 5 of the Specification for Design and Technology.
The Controlled Assessment Task is divided into two sections.

Section A is concerned with designing the product.

Marks will be awarded for:-
• Analysis of the Task 5 marks Page 1
• Writing a Design Specification 5 marks Page 2
• Generating Ideas 10 marks Pages 3 & 4
• Developing and Modelling a Solution 25 marks Pages 5 to 9
• Communicating the Final Solution 10 marks Pages 10 & 11
• Demonstrating Creative Thinking 5 marks Throughout

Section B is concerned with planning, making and evaluating the product.

Marks will be awarded for:
• Planning the make 10 marks Page 12
• Making the Product 90 marks
• Evaluation of the Product 10 marks Page 13
• Suggesting Improvements 10 marks Page 14

When completing the Controlled Assessment Task candidates should:
• Contextualise the chosen brief.
• Design creatively by generating, developing, planning and communicating ideas.
• Make products by working safely with tools, equipment, components, materials and ingredients.
• Apply systems and control, CAD/CAM, digital media and new technologies appropriate to the focus area.
• Analyse and evaluate processes and products.

Teachers or candidates in consultation with their teachers should choose one of the Briefs set out below.

Brief 1: Programmable micro controllers
(PICs) offer many opportunities to systems designers. Using a programmable micro controller (PIC) design make a product that benefits from the variety of inputs and outputs supported by this component.

Brief 2: Warning of alerts
Various situations require users to be warned or alerted that a particular outcome is imminent. Investigate situations where warnings and alerts are critical and design a device that uses a control system to warn or alert users.

Brief 3: Helping hand
Design and make a product that includes a control system to support users in improving an experience or performance in a specifically identified area.