

# **Pearson Edexcel Level 3 Advanced GCE in Design and Technology (9DT0) Summer 2022 assessment arrangements**

## **Summary of the current assessment/content arrangements**

The qualification consists of one externally examined paper and one non-examined assessment component.

Component 1: Principles of Design and Technology is a written examination of 2 hours and 30 minutes. The component has 120 marks and is weighted at 50%.

Component 2: Independent Design and Make Project is a non-examined component which is internally assessed and externally moderated. The component has 120 marks and is weighted at 50%. Students must produce a 'high-quality final prototype'. They must demonstrate the use of machinery/tool and processes when producing a high-quality final prototype.

## **Summary of the Summer 2022 assessment/content arrangements**

The qualification consists of one externally examined paper and one non-examined assessment component.

Component 1: Principles of Design and Technology is a written examination of 2 hours and 30 minutes. The component has 120 marks and is weighted at 50% (no change to this component).

Component 2: Independent Design and Make Project is a non-examined component which is internally assessed and externally moderated. The component has 102 marks and is weighted at 50%. Students can produce a 'proof of concept model' instead of a 'high-quality final prototype'.

Assessment criteria grid 10, Quality and accuracy from Component 2 will be removed. Any student who produces a 'high-quality final prototype' will not gain any marks for 'Quality and accuracy'.

We will allow students to demonstrate using machinery/tools/processes that is not directly linked to the product they intended to make.

Students can provide written, photographic or video evidence for assessment criteria grid 9, Tools and Equipment.

Students can use their proof-of-concept model to evidence the requirements of the assessment criteria grid 11, Testing and evaluation.

### Changes to the specification (Issue 1)

Page reference(s)	Information in the specification	Changes made for Summer 2022 assessments only
5	In the Content and assessment overview section, the total marks for Component 2: Independent Design and Make Project is 120 marks.	The total mark for Component 2 is now 102 marks.
	Throughout Component 2: Independent Design and Make Project there is reference to a prototype.	Students can produce a 'proof of concept model' instead of a 'high-quality final prototype'.
6	In the qualification aims and objectives section it states: 'be able to work safely and skilfully to produce high-quality prototypes'	There is no requirement to produce a high-quality prototype.
21 - 48	Throughout Component 2: Independent Design and Make Project, there is reference to 'prototype'	Students can produce a 'proof of concept model' instead of a 'high-quality final prototype'. Any reference to 'prototype' will now be 'prototype/proof of concept model'. <b>A proof of concept</b> refers to a made* outcome that is able to exemplify meeting the requirements of a design brief and set of specification criteria without being required to meet the same level of quality and accuracy in manufacture as a high-quality final prototype. <b>A proof of concept</b> will be able to prove that the functionality of the solution can be achieved, to a demonstratable degree, that could subsequently be met fully through the manufacture of a high-quality final prototype. *A proof of concept can also be a virtual model where appropriate.
29 - 30	In the Part 3: Making a final prototype section it states "Design, manufacture and realisation of a final prototype, including tools and equipment and quality and accuracy".	Part 3 now allows students to produce a proof-of-concept model in place of a final prototype. The design of a final prototype remains a requirement, and following completion of the planning to manufacture the final prototype, the students can either: <ul style="list-style-type: none"> <li>• make a proof of concept</li> <li>• make a final prototype</li> <li>• make parts of the final prototype alongside making the proof of concept.</li> </ul> Evidence associated with the selection of materials, fixtures, components and fittings should continue to be about the final prototype and can additionally include the selection of these for a proof of concept, but not in place of the evidence associated with the final prototype. Evidence associated with demonstration or use of tools and equipment can be through the making of a final prototype, the making of parts of a final prototype, making disassociated

Page reference(s)	Information in the specification	Changes made for Summer 2022 assessments only
		from the final prototype, but cannot be through the making of a proof of concept. Quality and accuracy are no longer assessed, by the removal of grid 10.
32	In the Assessment information section, it states 'The NEA consists of 120 marks.'	The NEA now consists of 102 marks.
46	The assessment criteria grid 10 has 18 marks.	This assessment criteria grid is not relevant. The student cannot be given any marks for this assessment criteria grid even if they produce a high-quality final prototype instead of a proof-of-concept model. An updated Candidate Assessment booklet (CAB) is available on our website <a href="#">here</a> .
52	The Awarding and reporting section.	We will apply a scaling of 1.176 to Component 02 to ensure it retains comparable balance to Component 01.

### Changes to the Sample Assessment Materials (SAMs) (Issue 1)

There are no changes to the SAMs.

### Changes to the Candidate Assessment Booklet (CAB) (Issue 2)

Issue 3 of the CAB is available on our website. A summary of the changes are as follows:

Page reference(s)	Information in the CAB	Changes made for Summer 2022 assessments only
2	In the Project submission section, it states: 'The project consists of a portfolio and a prototype.'	Students can produce a 'proof of concept model' instead of a 'prototype'. Any reference to 'prototype' will now be 'prototype/proof of concept model'.
	In the Photographic evidence of completed outcomes section it states 'The quality of the photography must be sufficient to enable moderators to see the completed prototype clearly and in detail.'	The quality of the photography must be sufficient to enable moderators to see the completed proof of concept/prototype clearly and in detail.
7	Mark grid Quality and accuracy (Grid 10) assesses AO2 and is worth 18 marks.	This marking grid is no longer being assessed. Teachers will not award a mark for this grid.
8	In the totals for each section table, the total for Making a final prototype is 30 marks.	In the totals for each section table, the total for Making a final prototype is now 12 marks
	The total mark is 120.	The total mark is 102.