GCE Design & Technology

Unit: 9DT01

Pearson Edexcel

Topic: Shoe storage

Full Portfolio

General Description The candidate produced 15 slides, the work is at a low A level standard, with some reasonable quality manufacture which scores well in grid 9 and 10, this aids the candidate. It exemplifies a low-level pass. The folder is a little disjointed and so the evidence for each of the grids has been highlighted in the individual grid table cells.		**Centre Mark**	**Mod Mark**
Grid 1 Investigation **Evidence**	To work in a client centred iterative way, candidates must first identify the problems or needs of a client or user group to develop a product that may fulfil their needs. The candidate moved towards a design proposal quickly and did not explore different possibilities. Indeed, the candidate looked at one design scenario. On slide 2 the candidate's opening statement indicate that the scenario will be shoe storage. The client input was rather limited making only passing reference to men and women and their shoe requirements and so the establishment of needs, want and values was limited. This is a level 1 submission. **Evidence on.** Slides 2 and 3.	Level 2	Level 1
Grid 2 Analysis/Research **Evidence**	In this section, candidates should be identifying clear opportunities for research. In the best cases, this should be led by the client; and the client/relevant stakeholders should be offering opinions and suggestions at key points. This research work is very textbook especially in terms of materials, slide 4 the annotation is often rather rambling, but here is some existing product analysis. The only other work that has any real relevancy is the seating height with regard to changing shoes the candidate does mention materials and so a cumulative assessment would be that the work is barely better than superficial. Evidence for this is found in slides 3,4,5. This is a low level 2.	Level 3	Level 2

Grid 3 Specification **Evidence**	In this section we are expecting to see evidence of technical and measurable specification points that are a product of the focussed research undertaken The candidate's specification lacks clarity it is not technical or measurable. There is a simplistic specification with very limited measurable elements it is rather a description what shoe storage should look like; however, the centre assessment is a little harsh. This is an example of a basic specification achieving level 1. Evidence here is slide 4.	No award	Level 1
Grid 4 Design ideas **Evidence**	In order to achieve marks from the highest level, it is expected that a range of design strategies are used to produce a range of design ideas that address the specification criteria from the previous section. Some of the written word describes the use of inspiration materials as a design strategy. There are some reasonable design idea sheets, illustrating a range of varied ideas we can therefore agree the centre assessment. The evidence here is wholly on slide 6.	Level 2	Level 2
Grid 5 Development **Evidence**	On-going developmental changes are informed by technical application of research, experimenting, and client/end user feedback in order to improve, refine and realise a design. There is some development in terms of modelling and some CAD work which is helpful we also do see on the final works page some subassembly design work. The pattern design work suddenly appears with little in terms of development the only link that is found is in reference to the patterns of traditional Chinese wood carving the candidate has used for inspiration. Here we have used evidence from the right-hand side of slide 7. Evidence on. Slide 7 provides some evidence of sub assembly design. Slide 8 illustrates limited modelling	Level 2	Level 2
Grid 6 Final Design **Evidence**	In this section candidates are expected to provide comprehensive manufacturing details to enable a third party to manufacture the design solution. It should include detailed drawings of the finished designs full cutting lists of the materials and components required and any part drawings where appropriate. There is limited evidence to enable third party manufacturer there are some basic dimensions and an attempt at some kind of cutting list. The work does lack detail to enable third party manufacture for example joint detail. This lack of detail restricts the candidate to a level one submission. The evidence for this is located on the left-hand side of slide 7.	Level 1	Level 1

Grid 7 Review **Evidence**	It is expected that candidates include notes throughout the development and summary pages comparing the final idea to the specification. There are some limited review statements in the main body of the portfolio, but they are rather elementary, and so the centre marks were therefore agreed. Some review statements can be found on slide 8	Level 1	Level 1
Grid 8 Communication **Evidence throughout portfolio**	Candidates need to be reminded that they are being awarded for a range of design strategies that can include a good range of traditional hand drawn sketches; CAD and detailed annotations which should be used to convey making information. All three elements are present with some useful design sketches and the use of CAD some of the written work is slightly limited this is better than a level one response. The sketching has some maturity to it and the CAD is reasonably accurate.	Level 2	Level 2
Grid 9 Tools and equipment **Evidence**	Candidate has produced an effective final outcome that demonstrates a reasonable selection of appropriate materials, fixtures, components, and fittings together with an accurate use of tools, equipment and techniques and the products had clear dimensional accuracy . This is a well-made product using a range of tools and equipment with a very good finish the carving is produced using a CNC machine, but it has been cleaned up and polished by hand. The joining system is a little crude with some kind of half lap housing joint. This works is comfortably in Level 3. Evidence on: Slides 11,12,13 and 14.	Level 2	Level 3
Grid 10 Quality and Accuracy **Evidence**	The candidates should produce a prototype that demonstrates accomplished making skills at an advanced level in relation to a sophisticated design problem it should be generally functional and match the end user needs. This is a level three response with some challenging elements showing skill and accuracy. This is a well-made quality product which is accurate and has a good finish the upholstery looks to be complete and well executed It is a Level 3 and so the centre assessment is agreed. Evidence on. Slides 11,12,13 and 14.	Level 3	Level 3

Grid 11 Test and Evaluate **Evidence**	The prototype needs to be checked against the specification, and whilst it may not be feasible to assess all specification points the key ones need to be tested and assessed. The candidate puts the product into service testing it to a limited access extent in situ there is a very large file of photographs during the making and some of the final product it is a pity that there isn't a real evaluative commentary or analysis of the product success answer the work can only really access level 1 for this criterion. **Evidence on.** Slide 15 shows very limited evidence of the product in service	Level 1	Level 1
Total		D Grade	E Grade