Design and Technology Unit 3/4

Due for a successful completion

Portfolio must include:

1. Cover Sheet (Student Number ONLY)
2. Client/End user Profile Criteria 1
3. Client Request Form/ Client Interview Criteria 1
4. 2 Part Design Brief Criteria 1
5. Evaluation Criteria Questions Criteria 1
6. Brainstorming Criteria 2
7. Mood board Criteria 2
8. Collage of ideas Criteria 2
9. Annotated Considered features Criteria 2
10. Annotated Research Ideas Criteria 2
11. Sketches and annotation Criteria 2
12. Material and Joinery Testing Criteria 3
13. Annotated Design Options 1 to 7 Criteria 4
14. Client Interview/Feedback Criteria 6
15. Justified final option/Decision matrix Criteria 5
16. Workshop Drawing Criteria 5
17. Material Breakdown and Costing Criteria 5
18. Tools, Machinery and Safety/Onguard Criteria 5
19. GANNT Chart/ Timeline Construction Timeline/Project Management Criteria 5
20. Recording progress/Sequence of Operation (All steps in producing the product, as well as all safety precautions required) Criteria 5
21. Client Interview Criteria 6
22. Evaluation criteria. (based on above criteria) Criteria 9
23. Checking, Testing the finished product Criteria 9
24. Overall Evaluation, Checking and Testing Criteria 9
25. Assemble/Use/Care information label. Criteria 8
# DTT - Client Request Form/INTERVIEW

**Student’s Name:** ____________________________  **Date of Consultation:** ____________

**Client’s Name:** ______________________________

<table>
<thead>
<tr>
<th>1. What type of item are you require? (please provide brief description)</th>
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<table>
<thead>
<tr>
<th>2. Please describe the style or design you are looking for. (e.g. Modern, traditional, etc) Note: Think about where it’s going what other styles in the room it has to match, the eventual colours etc.</th>
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<thead>
<tr>
<th>3. Size and Finish (please provide rough dimensions. It’s necessary to know where in the room it will eventually sit)</th>
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<tr>
<th>4. Please select the following design options as appropriate.</th>
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<table>
<thead>
<tr>
<th>a. Product-</th>
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<tr>
<th>b. Material Choice –</th>
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<tr>
<th>c. Colour / Shade / Finish (may require sample of material to match)</th>
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<tr>
<th>5. Additional Requirements</th>
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DTT - Client Profile

(This information will assist with determining specifications dealing with Constraints, Considerations, Ergonomics, Aesthetics, Safety, and Environmental...)

Name:

Age:

Sex:

Height:

Need of Product:

Preferred Timbers:

Preferred Finishes

Preferred Style:

Budget:

Completion Date:

Further Information:
**Describe the need for the product:**

This includes who the product is for, What they require, why they need it and where it will be located.

<table>
<thead>
<tr>
<th>Specifications</th>
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<tbody>
<tr>
<td><strong>Constraints</strong></td>
</tr>
<tr>
<td>QUANTITY:</td>
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<tr>
<td>MATERIALS:</td>
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<tr>
<td>SIZE:</td>
</tr>
<tr>
<td>LOCATION:</td>
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<tr>
<td>CONSTRUCTION METHODS:</td>
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<tr>
<td>FINISHES:</td>
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<td>FITTINGS:</td>
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<tr>
<td>STYLE:</td>
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<td>BUDGET:</td>
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<tr>
<td>AGE GROUP:</td>
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<td>ERGONOMIC FEATURES:</td>
</tr>
<tr>
<td>SAFETY:</td>
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<tr>
<td>ENVIRONMENTAL ISSUES:</td>
</tr>
<tr>
<td>COMPLETION DATE:</td>
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</table>

**Considerations**
Evaluation Criteria/Questions

These criteria questions must be taken directly from your design brief. (Read VCE handbook for further assistance)

**Evaluation Criteria 1**
- Justification
- Method to achieve this
- Method of checking
- Weighting

**Evaluation Criteria 2**
- Justification
- Method to achieve this
- Method of checking
- Weighting

**Evaluation Criteria 3**
- Justification
- Method to achieve this
- Method of checking
- Weighting

**Evaluation Criteria 4**
- Justification
- Method to achieve this
- Method of checking
- Weighting

**Evaluation Criteria 5**
- Justification
- Method to achieve this
- Method of checking
- Weighting

**Evaluation Criteria 6**
- Justification
- Method to achieve this
- Method of checking
- Weighting
Mood boards can be made up from bits and pieces from lots of different sources, eg:
- Magazines/ advertisements
- Internet and/or scanned books
- Photos
- Colour cards/stain cards from paint shops
- Material samples

**To create a mood board:**

Select an aspect of your design situation, or direction or style, theme you would like to explore.
Collect a wide range of materials, images and samples that relate to the theme.
Look at design elements such as: Line, Balance, Shape, Texture, Colour and show how they may relate to your developing ideas.
Play around with the composition of these elements on a large backing card (A3), overlap things, trim and crop images, change their angle, build up layers of colours and textures.
Annotate! Annotate! Annotate! This is critical for unit 3.

Look at page 58 – 59 in VCE booklet for more information.
Collage of Ideas

Collect as much information/images on the product you are designing to allow you to gain valuable ideas for the development of your product. Present this in a 2 page collage including annotations on specific details.
CONSIDERED FEATURES

Pick at least 12 features that would meet the constraints of your client and annotate these clearly.
You are to use your hand drawing skills to sketch your ideas including annotation. Include the use of coloured pencils to show additional detail. You must have a wide range of ideas and sketches.

(Minimum 4 pages).

Sketch your ideas freehand and annotate all relevant information. On these pages we need to see your thoughts and ideas on paper. Information can include period/styles, colours, timbers, grain direction, joinery and construction techniques.
From this information you will be able to create 5 design options for your client to choose from.
Example: 1 of 4 Questions supporting the option.

Question: Is this design within my budget?

Importance: Medium.

Rating: 9/10

Justification: Client flexible on this.
<table>
<thead>
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<th>Weeks</th>
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<tbody>
<tr>
<td>Meeting with client</td>
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<tr>
<td>Design Brief</td>
<td>*</td>
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<td>Client meeting</td>
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<tr>
<td>Research</td>
<td>*</td>
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<tr>
<td>Development designs</td>
<td>*</td>
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<tr>
<td>Client Presentation</td>
<td>*</td>
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<tr>
<td>Materials test</td>
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<tr>
<td>Production</td>
<td></td>
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<tr>
<td>Marking Out</td>
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<tr>
<td>Cutting Out</td>
<td>*</td>
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<tr>
<td>Joinery</td>
<td>*</td>
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<tr>
<td>Finishing</td>
<td></td>
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<tr>
<td>Evaluation</td>
<td>*</td>
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<td>Present to Client</td>
<td>*</td>
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</table>
Properties of Selected Timbers plus 2 others

Softwoods/Hardwoods/Manmade

Include the following information:

Botanical Name:
Colour:
Feature:
Characteristics

Include: Why you think this is the best type of timber for your product.
MATERIALS TESTING AND EVALUATION

1. **Aim of the Test:**

   - Timbers
   - Finishes
   - Joinery
   - Fasteners

2. **Tools & Equipment used:**

3. **Diagram of Testing**

4. **Materials Test Procedure**
   Step 1.
   2.
   3.
   4.

5. **Results**

6. **Conclusion**
Workshop Drawing

This drawing must include FRONT, SIDE and TOP view. It must be well drawn using a ruler and contain all measurements.
Material Breakdown and Costing

(Every piece of timber used must be documented with size and cost).
TOOLS AND MACHINERY
“ONGUARD”

Document/Record all the tools and machinery you are going to use.

Information must include:

- Photo of Item
- SAFETY/PPE
- Pre Operational Safety Checks
- Operational Safety Checks
- Housekeeping
- Potential Hazards
- Forbidden Usage.
# Recorded Steps of Production

<table>
<thead>
<tr>
<th>Picture</th>
<th>Picture</th>
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<td></td>
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<tr>
<td>Process and Tools used</td>
<td>Process and Tools used</td>
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<td>Picture</td>
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<td>Process and Tools used</td>
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**Evaluation Criteria**

Name: _______________________________

Product: ____________________________

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<tr>
<th>No.</th>
<th>Evaluation Criteria/Questions</th>
<th>How to judge if it has been achieved on finished product.</th>
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Caring For Your Product

Create a LABEL on “How to use/assemble/care for your product.
Overall evaluation of the year.
Lesson by Lesson Journal

Date:____________________

This is what I achieved today:

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Date:____________________

This is what I achieved today:

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Date:____________________

This is what I achieved today:

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