



# Thomas Hassall Anglican College

## Year 10 Industrial Technology Assessment Task 3 Group Project: Practical and Portfolio

**Student Name:** \_\_\_\_\_

**DUE DATE:** Wednesday 2<sup>nd</sup> November 2016 (Week 4)

**PORTFOLIO DRAFT DUE DATE:** Wednesday 31<sup>st</sup> August 2016 (Week 7)

**TOTAL MARKS:** Practical 60%, Portfolio 40%

**ASSESSMENT WEIGHTING:** 25%

### **Student Declaration:**

I acknowledge that this assessment task is all my own work. I declare I have not plagiarised (copied) the work or words of others including; authors of written material and websites

**Note:** *By placing a tick in the space provided you are indicating, as you would by signing your name, that this is all your own work.*

### **SUBMISSION INSTRUCTIONS:**

- Hand in your assessment task on (or before) the due date to your teacher. Note that the Thomas Hassall Anglican College assessment policy applies to this task. This must be handed in before, but no later than 3.00 pm to the supervising teachers. Supervising Teachers: Mr J Howe, Mr D Phelps
- Ensure that your name is clearly marked on all parts of your task (as applicable) and follow your teacher's instruction for submission of your assessment task
- When you hand in your assessment task, you must sign the class list as evidence that you have completed and submitted the set work.
- Always keep an electronic copy of your work. Do not delete your electronic copy of this task until it is marked and returned to you by your class teacher. No USB's will be accepted (unless stated)
- Extensions can only be granted by Mr Stoker. If an extension is required you must see him prior to the due date. **PENALTY FOR LATENESS:** 20% per day deducted for each day the task is late
- **TASKS WILL NOT BE ACCEPTED UNLESS ACCOMPANIED BY THIS ASSESSMENT TASK COVER SHEET**

**Marker:** Mr Howe Mr Phelps..... **Signature:** .....

**Mark:** ..... **Date:** .....

**Penalty (if applicable):** .....

## Areas of Assessment

Workplace, health and safety  
Properties and applications of materials  
Industrial Technology and society  
Designing, communicating and evaluating  
Quality projects

Question 8  
Question 4, 5  
Question 7  
Question 1, 2, 3, 6, 9, 10, 11  
Practical component

### **TASK OUTCOMES**

- |       |  |
|-------|--|
| 5.1.1 | identifies, assesses and manages the risks and OHS issues associated with the use of a range of materials, hand tools, machine tools and processes           |
| 5.1.2 | applies OHS practices to hand tools, machine tools, equipment and processes  |
| 5.2.2 | identifies, selects and competently uses a range of hand and machine tools, equipment and processes to produce quality practical projects                    |
| 5.4.1 | selects, applies and interprets a range of suitable communication techniques in the development, planning, production and presentation of ideas and projects |
| 5.4.2 | works cooperatively with others in the achievement of common goals   |
| 5.5.1 | applies and transfers acquired knowledge and skills to subsequent learning experiences in a variety of contexts and projects                                 |
| 5.6.1 | evaluates products in terms of functional, economic, aesthetic and environmental qualities and quality of construction                                       |

### **Task Requirements:**

**Your report can be completed in either Microsoft Word or Pages on the iPad. Your final report MUST be printed onto A4 paper and submitted by the due date.**

**NO USB DRIVES WILL BE ACCEPTED**

**Students are reminded to regularly back up and print versions of their work, as computer problems will not be accepted as an excuse for non-submission. Keep your saved computer file until this task has been marked and handed back to you by your classroom teacher**



Subject/Course: **Industrial Technology - Timber**

## **Children's Table and Chairs**



The Assessment Task is required to be completed at home. Some class time will be allocated to the completing of the task. Submission is required on **Wednesday 2<sup>nd</sup> November by 2:40pm.**

Weighting of Assessment: **25%**

Total Marks: **100.** (Practical project 60%, Practical portfolio 40%)

Outcomes being assessed:

5.1.1	identifies, assesses and manages the risks and OHS issues associated with the use of a range of materials, hand tools, machine tools and processes
5.1.2	applies OHS practices to hand tools, machine tools, equipment and processes
5.2.2	identifies, selects and competently uses a range of hand and machine tools, equipment and processes to produce quality practical projects
5.4.1	selects, applies and interprets a range of suitable communication techniques in the development, planning, production and presentation of ideas and projects
5.4.2	works cooperatively with others in the achievement of common goals
5.5.1	applies and transfers acquired knowledge and skills to subsequent learning experiences in a variety of contexts and projects
5.6.1	evaluates products in terms of functional, economic, aesthetic and environmental qualities and quality of construction

## Group Portfolio Headings

Your group portfolio is to include the following headings. See below for a brief description of the sort of information that could be expected under each heading.

1. Title
2. Contents Page **5 marks**

### Design

3. Statement of intent **5 marks**
  - Provide a clear statement of the project. What it is and why you are making it.
4. Research **10 marks**
  - Research each joint type and construction methods.
  - Include advantages and disadvantages of each joint style and construction method.
  - Include pictures.
  - Use a range of research sources and media for best results. Use at least 2 sources to compare results.
  - Include 'reference' or 'citation' where necessary to avoid plagiarism.
5. Selection of materials **10 marks**
  - Research the project material properties (timber). (consider [www.woodsolutions.com.au](http://www.woodsolutions.com.au) as a good resource). Research water based Polyurethane and Timber stain.
  - Evaluate the material used and timber sizes.

### Management and Communication

6. Finance Plan **5 marks**
  - Actual cost.
7. Use of appropriate industrial processes and equipment **15 marks**
  - What industrial processes have been utilised in the production.
  - Are they appropriate? Discuss.
8. Evidence of safe work processes and WHS issues **10 marks**
  - Evidence of safe working procedures.
  - Photographic or written.
  - List relevant WHS regulations that apply.
9. Evidence of a range of computer applications **5 marks**
  - Evidence of computer applications including:
    - Word processing.
    - Spreadsheets.
    - CAD.
    - Multimedia.

### Evaluation

10. Evaluation **10 marks**
  - Includes an ongoing evaluation after each heading of the portfolio to indicate how the project is progressing, any mistakes or corrections that needed to be made throughout the project. A consistent ongoing evaluation theme needs to be put into each portfolio.
11. Bibliography **5 marks**

**Total marks: 80 marks**

**Weighting: 40%**

## **Group Practical Task**

You are required to create a group portfolio for your Children's Table and Two Chairs. The details are enclosed within the document posted on the [thacindtech.weebly.com](http://thacindtech.weebly.com) website. See the project sheet for all details including engineering drawings.

A workflow template can be found in your project outline, this will be marked as a class task. This workflow diagram will need to be placed in your portfolio under the industrial process section marked step by step plan.

**Total marks: 60 marks**

**Weighting: 60%**

## Group Portfolio Marking Criteria

### 1. & 2. Title and Contents Page

Outcome	Criteria	Mark
5.4.1	<ul style="list-style-type: none"> <li>Professionally presented Title Page</li> <li>Auto generated Table of Contents in correct order</li> </ul>	5
	<ul style="list-style-type: none"> <li>Neatly presented Title Page</li> <li>Auto generated Table of Contents</li> </ul>	3 - 4
	<ul style="list-style-type: none"> <li>Title Page included</li> <li>Typed Table of Contents – limited detail</li> </ul>	1 - 2
	<ul style="list-style-type: none"> <li>Non-Submission of component.</li> </ul>	0

### 3. Statement of Intent

Outcome	Criteria	Mark
5.4.1	<ul style="list-style-type: none"> <li>Writes a thorough Statement of Intent. Clearly describes what the project is and why it is being made.</li> <li>Uses accurate subject terminology.</li> </ul>	5
	<ul style="list-style-type: none"> <li>Writes a satisfactory Statement of Intent. Describes what the project is and why it is being made.</li> <li>Uses accurate terminology.</li> </ul>	3 - 4
	<ul style="list-style-type: none"> <li>Writes a basic Statement of Intent. Briefly describes what the project is, and/or, why it is being made.</li> <li>Uses some terminology / some terminology may be inaccurate.</li> </ul>	1 - 2
	<ul style="list-style-type: none"> <li>Limited or non-Submission</li> </ul>	0

### 4. Research

Outcome	Criteria	Mark
5.6.1	<ul style="list-style-type: none"> <li>Extensively researches each of the joint types. Includes advantages and disadvantages of each joint type. Includes clear pictures of each joint type.</li> <li>Research includes an extensive range of sources and media types; Internet, textbooks, catalogues and printed media.</li> <li>Research for each joint type is compiled from two separate sources and includes references.</li> </ul>	9 - 10
	<ul style="list-style-type: none"> <li>Thoroughly researches each of the joint types. Includes advantages and disadvantages of joint types. Includes a clear picture of each joint type.</li> <li>Research includes a range of sources and media types; Internet, textbooks, catalogues and printed media.</li> <li>Research for each joint type includes references.</li> </ul>	7 - 8
	<ul style="list-style-type: none"> <li>A general outline of the joint types. Includes some advantages and disadvantages of joint types. Includes a picture of each joint type.</li> <li>Research includes some sources and media types; Internet, textbooks, catalogues and printed media.</li> <li>Research for each joint type includes references.</li> </ul>	5 - 6
	<ul style="list-style-type: none"> <li>A basic outline of some joint types. Advantages and disadvantages of joint types are not evident. Includes a picture of each joint type.</li> <li>Research includes one source; Internet, textbooks, catalogues and printed media.</li> <li>Research may or may not include references.</li> </ul>	3 - 4
	<ul style="list-style-type: none"> <li>Limited research of some joint types. May or may not include a picture of joint types.</li> <li>Research includes one source; Internet, textbooks, catalogues and printed media.</li> <li>Research may or may not include references.</li> </ul>	1 - 2
	<ul style="list-style-type: none"> <li>Non-Submission</li> </ul>	0

## 5. Selection of Materials

Outcome	Criteria	Mark
5.1.1 5.1.2 5.5.1 5.6.1	<ul style="list-style-type: none"> <li>Extensively researches and documents the selected materials for the project.</li> <li>Researches all items included within the Finance Plan. Pine – Explain why the timber size is or is not appropriate to the purpose, water based Polyurethane, Timber stain and PVA.</li> <li>Evaluates and documents the suitability of each material used. Compare suitability against 1 alternative product. List pro and con for each. Provides recommendation why 1 product is better.</li> </ul>	9 - 10
	<ul style="list-style-type: none"> <li>Thoroughly researches and documents the selected materials for the project.</li> <li>Researches most items included within the Finance Plan. Pine – Describe why the timber size is or is not appropriate to the purpose, water based Polyurethane or Timber stain or PVA.</li> <li>Explains or documents the suitability of each material used. Compare suitability against 1 alternative product, and/or Lists pro and con for each, and/or Provides recommendation why 1 product is better. (completes 2)</li> </ul>	7 - 8
	<ul style="list-style-type: none"> <li>General research and documentation of the selected materials for the project.</li> <li>Researches most (2) items included within the Finance Plan. Pine, and/or water based Polyurethane, and/or Timber stain and/or PVA. Makes some reference to timber size.</li> <li>Explains or documents the suitability of each material used. Compare suitability against 1 alternative product, or Lists pro and con for each, or Provides recommendation why 1 product is better. (completes 1)</li> </ul>	5 - 6
	<ul style="list-style-type: none"> <li>Basic research and documentation of the selected materials for the project.</li> <li>Researches some (1) item included within the Finance Plan. Pine or water based Polyurethane or Timber stain or PVA.</li> <li>Explains or documents the suitability of each material used. Compare suitability against 1 alternative product, or Lists pro and con for each, or Provides recommendation why 1 product is better. (completes 1)</li> </ul>	3 - 4
	<ul style="list-style-type: none"> <li>Limited research and documentation of the selected materials for the project.</li> <li>Researches some (1) item included within the Finance Plan. Pine or water based Polyurethane or Timber stain or PVA.</li> <li>lists the suitability of a material used.</li> </ul>	1 - 2
	<ul style="list-style-type: none"> <li>Non-Submission</li> </ul>	0

## 6. Finance Plan

Outcome	Criteria	Mark
5.4.1	<ul style="list-style-type: none"> <li>Excellent finance plan; including accurate materials, exact dimensions, cost per meter and exact final cost.</li> </ul>	5
	<ul style="list-style-type: none"> <li>Thorough finance plan; including accurate materials, dimensions, cost per meter and final cost.</li> </ul>	3 - 4
	<ul style="list-style-type: none"> <li>Inaccurate finance plan</li> </ul>	1 - 2
	<ul style="list-style-type: none"> <li>Non-Submission of component.</li> </ul>	0

## 7. Appropriate Industrial Processes and Equipment

Outcome	Criteria	Mark
5.1.1 5.1.2 5.2.2 5.4.2	<ul style="list-style-type: none"> <li>A detailed step by step plan of production for the Table and Chairs independent of the class task has been included.</li> <li>Accurately describes each process used for each step of production.</li> <li>Includes a detailed justification for the choices of the tools and work practices used for the Table and Chairs.</li> </ul>	12 - 15
	<ul style="list-style-type: none"> <li>A step by step plan of production for the Table and Chairs independent of the class task has been included.</li> <li>Describes each process used for each step of production.</li> <li>Includes a justification for the choices of the tools and work practices used for the Table and Chairs.</li> </ul>	8 - 11
	<ul style="list-style-type: none"> <li>A general plan of production for the Table and Chairs independent of the class task has been included.</li> </ul>	5 - 7
	<ul style="list-style-type: none"> <li>Describes some processes used for production.</li> <li>Includes a justification for some of the choices of the tools and work practices used for the Table and Chairs.</li> </ul>	
	<ul style="list-style-type: none"> <li>A basic plan of production for the Table and Chairs independent of the class task has been included.</li> <li>Describes some processes used for production.</li> <li>Includes a basic justification for some of the choices of the tools and work practices used for the Table and Chairs.</li> </ul>	3 - 4
	<ul style="list-style-type: none"> <li>A limited plan of production for the Table and Chairs independent of the class task has been included.</li> <li>Some processes used for production are not accurate.</li> </ul>	1 - 2
<ul style="list-style-type: none"> <li>Non-Submission of component.</li> </ul>	0	

## 8. Safe Work Processes and WHS

Outcome	Criteria	Mark
5.1.1 5.1.2 5.4.2	<ul style="list-style-type: none"> <li>Thoroughly documented evidence of safe work practices and Workplace Health and Safety for project is included.</li> <li>Photographic and written evidence including; OnGuard, PPE and safe use of tools have been included.</li> </ul>	9 - 10
	<ul style="list-style-type: none"> <li>Documented evidence of safe work practices and Workplace Health and Safety for project is included.</li> <li>Photographic and written evidence including; OnGuard, PPE and safe use of tools have been included.</li> </ul>	7 - 8
	<ul style="list-style-type: none"> <li>Evidence of safe work practices and Workplace Health and Safety for project is included.</li> <li>Photographic and/or written evidence including some of; OnGuard, PPE and safe use of tools have been included.</li> </ul>	4 - 6
	<ul style="list-style-type: none"> <li>Some evidence of safe work practices and Workplace Health and Safety for project is included.</li> <li>Some photographic and/or written evidence including some of; OnGuard, PPE and some safe use of tools have been included.</li> </ul>	1 - 3
	<ul style="list-style-type: none"> <li>Non-Submission of component</li> </ul>	0

## 9. Evidence of Computer Applications

Outcome	Criteria	Mark
5.4.1	<ul style="list-style-type: none"> <li>Excellent use of ICT's; word processing, spreadsheets and Computer Aided Design (CAD) software and multimedia.</li> </ul>	5
	<ul style="list-style-type: none"> <li>Sound use of ICT's; word processing, spreadsheets and Computer Aided Design (CAD) software.</li> </ul>	3 - 4
	<ul style="list-style-type: none"> <li>Limited use of ICT's; word processing, spreadsheets and Computer Aided Design (CAD) software.</li> </ul>	1 - 2
	<ul style="list-style-type: none"> <li>Non-Submission of component</li> </ul>	0



## 10. Evaluation

Outcome	Criteria	Mark
5.6.1	<ul style="list-style-type: none"><li>Extensive ongoing evaluation of how the project is progressing in each stage of the portfolio.</li></ul>	8 - 10
	<ul style="list-style-type: none"><li>Thorough ongoing evaluation of how the project is progressing in most stages of the portfolio</li></ul>	5 - 7
	<ul style="list-style-type: none"><li>Sound ongoing evaluation of how the project is progressing in some stages of the portfolio.</li></ul>	1 - 4
	<ul style="list-style-type: none"><li>Non-Submission of component</li></ul>	0

## 11. Bibliography

Outcome	Criteria	Mark
5.4.1	<ul style="list-style-type: none"><li>Accurate and detailed bibliography and reference list</li><li>Includes a range of resources</li></ul>	5
	<ul style="list-style-type: none"><li>Accurate bibliography and reference list</li><li>Includes a range of resources</li></ul>	4 - 5
	<ul style="list-style-type: none"><li>Bibliography is limited and lacks accuracy</li></ul>	1 - 3
	<ul style="list-style-type: none"><li>Non-Submission of component</li></ul>	0

## Group Practical Marking Criteria

Practical Task **60%**

### 1. Children's Table

Outcome	Criteria	Mark
5.2.1 5.2.2	<ul style="list-style-type: none"> <li>Table is consistent with drawing plans</li> <li>Table is symmetrical</li> <li>Table legs and top are 90 degrees within 1 millimetres</li> <li>All Fit and Finish tolerances are unnoticeable</li> </ul>	26 - 30
	<ul style="list-style-type: none"> <li>Table dimensions consistent with the Drawing Plans within 2mm tolerance.</li> <li>Table is Symmetrical within 2 millimetres</li> <li>Table legs and top are 90 degrees within 2 degrees tolerance</li> <li>All Fit and Finish tolerances are within 2 millimetres</li> </ul>	20 - 25
	<ul style="list-style-type: none"> <li>Table dimensions consistent with the Drawing Plans within 5mm tolerance.</li> <li>Table is Symmetrical within 5 millimetres</li> <li>Table legs and top meets at 90 degrees within 5 degrees tolerance</li> <li>All Fit and Finish tolerances are within 4 millimetres</li> <li>or</li> <li>One half of Table is incomplete</li> </ul>	15 - 19
	<ul style="list-style-type: none"> <li>Table is representative of Drawing Plans.</li> <li>All Fit and Finish tolerances are poor</li> <li>or</li> <li>Table is incomplete</li> </ul>	10 - 14
	<ul style="list-style-type: none"> <li>Non-Submission of component</li> </ul>	0

### 2. Children's Chair (your best chair will be assessed)

Outcome	Criteria	Mark
5.2.1 5.2.2	<ul style="list-style-type: none"> <li>Chair is consistent with drawing plans</li> <li>Chair is symmetrical</li> <li>Chair is 90 degrees within 1 millimetres</li> <li>All Fit and Finish tolerances are unnoticeable</li> </ul>	26 - 30
	<ul style="list-style-type: none"> <li>Chair dimensions consistent with the Drawing Plans within 2mm tolerance.</li> <li>Chair is Symmetrical within 2 millimetres</li> <li>Chair is 90 degrees within 2 degrees tolerance</li> <li>All Fit and Finish tolerances are within 2 millimetres</li> </ul>	20 - 25
	<ul style="list-style-type: none"> <li>Chair dimensions consistent with the Drawing Plans within 5mm tolerance.</li> <li>Chair is Symmetrical within 5 millimetres</li> <li>Chair meets at 90 degrees within 5 degrees tolerance</li> <li>All Fit and Finish tolerances are within 4 millimetres</li> <li>or</li> <li>One half of Chair is incomplete</li> </ul>	15 - 19
	<ul style="list-style-type: none"> <li>Chair is representative of Drawing Plans.</li> <li>All Fit and Finish tolerances are poor</li> <li>or</li> <li>Table is incomplete</li> </ul>	10 - 14
	<ul style="list-style-type: none"> <li>Non-Submission of component</li> </ul>	0

**Total:** \_\_\_\_\_

**Teacher Feedback: (Comment on this task)**

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**Teacher Feed-forward: (How you can improve for the next task)**

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