

WOOD MANUFACTURING & FINISHING

Coursework Assignment

CW1

GENERAL INSTRUCTIONS

- ◎ Coursework is designed to be carried out over a period of time and without direct supervision.
- ◎ You may make use of any approved resources available to you.
- ◎ Write your Apprentice Name/Registration No. on all answer sheets and test work before submitting them for review/assessment.
- ◎ The supervisor/assessor may arrange to review your work periodically.

TOPIC LIST FOR WM&F CW 1

	Topic	Student Name
1	Edge Lipper/ Banding	
2	Ergonomics & Standard Furniture Sizes	
3	Wide Bandsaw Technology	
4	High Speed Moulding Tech.	
5	Hinges Traditional to Modern	
6	Locks Traditional to Modern	
7	Stair Construction	
8	Surface Coatings & Finishes	
9	Epoxy Resin/Finishing in Furniture Man.	
10	Insect Attack & Eradication	
11	Mass Produced Chair Manufacture	
12	Wood Turning	
13	Timber Decay	
14	Timber Preservation	
15	Circular Saw Technology	
16	Furniture Restoration	

TOPIC LIST FOR WM&F PHASE 6 CW 1

	Topic
1	Stair Construction
2	Hinges & Locks Traditional to Modern
3	Timber Decay & Timber Preservation
4	Ergonomics & Standard Furniture Sizes
5	Furniture Restoration
6	Wide Bandsaw Technology
7	Edge Lipper/ Banding
8	Surface Coatings & Finishes on Furniture

SPECIFIC INSTRUCTIONS:

- ⦿ The learner will research one of the topics listed allocated to them by their assessor using a range of media.
- ⦿ The learner will compile and present a report on the subject area using software applications.
- ⦿ The learner will produce drawings, sketches, and hand-outs as appropriate.
- ⦿ The learner will orally present their findings to the assessor/s on the subject area.
- ⦿ At the end of the presentation the learner will encourage questions and discussion on the presentation.

CONDITIONS OF TESTING:

- ⦿ The report must be a minimum of Two thousand words \pm 20% and include the following:
- ⦿ Research the history and development of the given topic.
- ⦿ Sketches and working drawings where appropriate.
- ⦿ The Learner may include appropriate diagrams and photographs. All material used, which is not the work of the learner, must be correctly referenced and permission obtained from the copyright holder.
- ⦿ The report must be typed, printed, and bound & handed up.
- ⦿ The report (PDF) must be submitted via Brightspace and email by **12.00 Noon Sunday 2nd March.**

CONDITIONS OF TESTING:

- ◎ **Presentation**
- ◎ The learner will prepare and present his/her Presentation
- ◎ The learner may include appropriate diagrams and photographs. The learner may use appropriate props to illustrate his/her presentation. All material used, which is not the work of the learner, must be correctly referenced and permission obtained from the copyright holder.
- ◎ The Presentation must be also submitted via email by **12.00 Noon Sunday 2nd March.**
- ◎ The Presentation must be completed and ready for presentation, by the learner, to peers, trainers, employers and industry representatives on **Wednesday of Week 9 the 5th March.**

CONDITIONS OF TESTING:

- ◎ **Presentation**
- ◎ Presentation duration time: 10 minutes
- ◎ Approximate question/discussion time: 5 minutes

BREAKDOWN OF ASSIGNMENT IN GENERAL

- ⦿ Research the Topic allocated to you 2000 words.
- ⦿ Give an account of the topic history.
- ⦿ Include any information that you found interesting.
- ⦿ Source good information and images.
- ⦿ Note: Include many references for text and images.

BREAKDOWN OF ASSIGNMENT MACHINES/ TECHNOLOGY

- ⦿ When did they first appear?.
- ⦿ Manual, power driven, electric, pneumatic, automatic.
- ⦿ **Refer to Irish machine regs?**
- ⦿ What has changed, changed for better or worse.
- ⦿ Increase or decrease of waste.
- ⦿ Comparing to hand tools.
- ⦿ Capabilities of the machine to handheld power tools or hand tools.
- ⦿ Can you take your own photo of these machines.
- ⦿ What is your opinion of these machines.

BREAKDOWN OF ASSIGNMENT STAIRS

- ⦿ Give an account of history.
- ⦿ Looking at the styles, which one of these styles appealed to you ...or not. Hint: Georgian, Victorian & Edwardian designs
- ⦿ Discuss any features that you liked or disliked about the different periods of styles.
- ⦿ Include any Irish Regulations. What are the TGD's.?
- ⦿ Explain why safety regulations are necessary for stairs.
- ⦿ Describe some of the process in setting out and manufacturing a stairs.
- ⦿ Can you relate any of your work/learning to this topic?

BREAKDOWN OF ASSIGNMENT ERGONOMICS / FURNITURE SIZES

- ⦿ Give an account of history what changes have been made to these since 2005.
- ⦿ Why are certain guidelines in place?
- ⦿ What laws, building regulations etc. govern furniture sizes.
- ⦿ What is NDA?
- ⦿ What are TGD's?
- ⦿ What is Universal Design?
- ⦿ How does Health & Safety factor in ergonomics in your workplace?
- ⦿ Can you relate any of your workplace to this topic?
- ⦿ Has your employer made any improvements to assist better working conditions?

BREAKDOWN OF ASSIGNMENT LOCKS OR HINGES

- ⦿ Give an account of history.
- ⦿ Talk about materials used.
- ⦿ How did these materials become available?
- ⦿ How did War impact on the development of plastics and metals.
- ⦿ Discuss what you like or dislike about the different periods of styles.
- ⦿ How have these changed so much in recent years and why have changes occurred?
- ⦿ How have the shape and designs of fittings changed in recent years and why?
- ⦿ Limit the discussions to a few specialised locks or hinges.

BREAKDOWN OF ASSIGNMENT FURNITURE RESTORATION

- ⦿ Give an account of history when did second hand furniture shops first appear.
- ⦿ Why is furniture restored?
- ⦿ Explain in your own words, patina, preservation, mixed periods, conservation & providence.
- ⦿ Look at the Georgian, Victorian & Edwardian designs what would mixing these styles do to an antique piece of furniture.
- ⦿ Include any Health & Safety regulations.
- ⦿ Suggest that you include a number of common faults and show how you would execute good quality repairs to these faults.
- ⦿ Stay away from blogs when carrying out research.

BREAKDOWN OF ASSIGNMENT SURFACE COATINGS & FINISHES ON FURNITURE

- ⦿ Give an account of history.
- ⦿ Talk about materials used.
- ⦿ How did these materials become available?
- ⦿ How have these changed so much in recent years and why has this change occurred?
- ⦿ What has been the impact with laws on omissions and gases on surface finishes?
- ⦿ What are the general Health & Safety rules that should be followed?
- ⦿ How has technology improved the application of finishes? Can you give any examples?

BREAKDOWN OF ASSIGNMENT

TIMBER DECAY

- ⦿ Give an account of different types of fungal attack, how they attack, what they attack, damage they do etc.
- ⦿ Signs of attack, what to look for.
- ⦿ Eradication.
- ⦿ Prevention.
- ⦿ What are the general Health & Safety rules that should be followed?
- ⦿ Concentrate mainly on Wet Rot and Dry Rot.
- ⦿ Can you relate any of your work to this topic?

BREAKDOWN OF ASSIGNMENT

TIMBER PRESERVATION

- ⦿ What is timber preservation?
- ⦿ Why are preservatives used?
- ⦿ How do they stop Insect and Fungal attack?
- ⦿ Look at the varying degrees of preservative methods, chemicals used.
- ⦿ What has been the impact with laws on omissions and gases on chemical preservatives?
- ⦿ What are the general Health & Safety rules that should be followed?
- ⦿ Can you relate any of your work to this topic?

BREAKDOWN OF ASSIGNMENT SKETCHES

- ⦿ Provide 5 sketches or 5 images.
- ⦿ Images must be numbered, labelled, referred to within the body of text and referenced.
- ⦿ All material used, which is not the work of the learner, must be correctly referenced and permission obtained from the copyright holder.
- ⦿ Include sketches and images that are relevant to your research and include them within the body of the text keeping to existing margins.
- ⦿ Refer to the sketches and images within the body of the text.
- ⦿ There must be a reason for the sketches and images to be there.

TIPS FOR ASSIGNMENT

- ⦿ Research the history and development of your given Topic.
- ⦿ Show what you have learned about your Topic by relating all relevant information in your report.
- ⦿ Share what you found interesting.
- ⦿ Summarise your report at the end.
- ⦿ Include sketches & images where appropriate.
- ⦿ Use licence free imagery such as creative commons, flickr.com, shutterstock.com, dreamstime.com, etc. to obtain copyright free images. (you may need to create accounts)
- ⦿ Remember to reference your source and images.