

Year 10 Construction UNIT 5

1 of 2 KNOWLEDGE ORGANISER

Marking and cutting a Half Lap Joint



- This is my half lap joint.
- To mark this joint out accurately I had to use a steel rule and a marking gauge.
- I cut the joint by using a tenon saw because this saw has a rigid blade and helps to cut in straight lines.
- I removed any waste material using a chisel and a mallet. To do this safely I made sure my work was held in the wood vice.

A Good Example of recording practical work

(The description underneath the photo to the left is detailed enough to achieve either a MERIT or DISTINCTION)

Tips:

What photographs do I have to include?

- 1.You need a photograph of each joint **BEFORE** it is stuck together.
- 2.You need a photograph of the joint **AFTER** it has been glued together.
- 3.You need a photograph of the frame, including a steel ruler, to **PROVE** that your frame measures 300mm x 300mm.





What notes do I have to Make?

What is the name of the joint – finger joint, dovetail joint, lap joint or half lap joint

What tools did you use to **mark out** the joint?

What tools did you use to **cut** the joint?

Did you use any tools to **finish** the joint?

Tools		What is it used for
Steel rule		Used for measuring small distances up to 300mm long
Tri-square		This is used to set out lines accurately at 90 degrees to the edge of the timber
Tenon Saw		A Tenon saw is used for cutting small pieces of timber in a straight line.
Bevelled Chisel		These are bevelled on the steel front edge of the blade, so they are easy to get into small corners when cutting a joint.

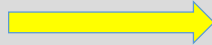
Using Tools Safely and Safe Conduct

- The quality of your carpentry work depends on the safe use of hand tools and the equipment you use.
- Tools are not cheap so you should look after them carefully.
- It is important to behave safely when using carpentry tools as they are sharp or hazardous
- You could be suspended from a building site if your behaviour was dangerous or unacceptable.

Personal Protective Equipment PPE

- Personal Protective Equipment is clothing or equipment used to reduce the risk of injury

What PPE equipment is this carpenter wearing?



Maintaining a Tidy Work Area

- If you are working in a workshop or on a site it is important to tidy as you work
- Make sure you put tools back and store them properly to prevent them from getting damaged.

Keep your Tools Sharp and Clean

- Clean and sharp tools are much easier to use than tools that are blunt or damaged



Storing Tools

- You should store carpentry tools in an organised way to prevent them getting damaged or blunted.

Why would this be a good storage solution for tools on a construction site?



Safe Manual Lifting

- In a workshop or on a construction site it is important to lift heavy objects safely.
- If you don't lift a heavy object correctly you could cause a musculoskeletal injury.

