

## Module 2

# Practical Woodwork - Basic Tools & Joining Techniques

## Knowledge & Understanding Assignments

Name - \_\_\_\_\_



2021





## SECTION 1

1. Name each of the common tools shown and beside each sketch give a brief note of its use.



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(4)



2. Name three types of chisel and give examples of the work done by each.

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(3)

3. Why is the section of a mortise chisel stouter and 'squarer' than that of other chisels?

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(2)

4. What is the grinding angle and sharpening angle of a chisel for general work?

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(2)

5. Why is a leather washer fitted between the ferrule and blade shoulder of a mortice chisel?

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(1)

6. What major safety precaution must ALWAYS be observed when using a bevelled edge chisel?

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(1)

7. Explain how to check the accuracy of a try square.

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(2)

8. Explain, with the aid of sketches, what is meant by (i) the “set” of saw teeth and (ii) a saw “kerf”.

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(2)

9. Indicate the type of saw that would be most suitable for each of the following tasks.

a) Cutting a piece of timber 50 x 100 x 2000 lengthways to give two pieces of approx. 50 x 50 x 2000.

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(1)

b) Cutting a circular disc 200mm diameter from a piece of 4x210x210 plywood.

\_\_\_\_\_ (1)

10. Describe how a coping saw blade is fitted.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2)

11. A tenon saw has a stiffening rib along the length of the blade. Why?

\_\_\_\_\_  
\_\_\_\_\_ (1)

12. Name two different tools that could be used to mark out a 45° angle.

1. \_\_\_\_\_

2. \_\_\_\_\_

(2)

13. Make a neat sketch of a marking gauge in the space below and name the parts.

(4)

## SECTION 2

1. Make a sketch of (i) a clawhammer and (ii) a cross-pein hammer. State clearly the material from which the head and shaft is made. How is head joined to the shaft?

(5)

2. Why is it very dangerous to strike the faces of two hammers together?

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(1)

3. From what material is a woodworker's mallet made? Why?

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(2)

4. Why are the ends of a mallet head slight sloped inwards?

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5. Why are hammer shafts usually made from Ash or Hickory?

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(1)

6 a. What is a nail punch used for?

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(1)

b. Why is the body of a nail punch knurled?

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(1)

7. Name FOUR main parts of a jack plane and state briefly the FUNCTION of each part.

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(8)

8. You have been using a jack plane to take off very thin shavings. In a short sentence describe clearly how the plane should be altered to remove a thicker shaving.

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(2)

9. Name and make a sketch of the type cuts and finished shape made by each of the following special planes.

(a) REBATE PLANE \_\_\_\_\_

(b) PLOUGH PLANE \_\_\_\_\_

(c) ROUTER \_\_\_\_\_

(6)

10. What type of hand plane would you use to plane end grain?

\_\_\_\_\_ (1)

### SECTION 3

1. What is the main difference between a cabinet screwdriver and an engineers screwdriver?

\_\_\_\_\_  
\_\_\_\_\_ (2)

2 a. What is the function of a ratchet brace?

\_\_\_\_\_ (1)

b. What is the purpose of the ratchet?

\_\_\_\_\_ (1)

c. What is (i) the auger bit and (ii) the centre bit used for?

\_\_\_\_\_  
\_\_\_\_\_ (2)

d. What type of brace is used to hold twist drills?

\_\_\_\_\_ (1)

3. What tasks are done by a bradawl?

\_\_\_\_\_ (1)

4. How, when extracting nails with pincers do you prevent the wood from bruising?

\_\_\_\_\_  
\_\_\_\_\_ (1)



5. Explain the function of a quick release vice.

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(1)

6. Explain the difference and purpose of T bar clamps to sash clamps.

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(2)

## SECTION 4

1. State how glasspaper is graded and how it is supplied.

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(2)

2. How should glasspaper be used when sanding a sheet of plywood approximately 200mm x 350mm?

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(2)

3. Name three different types of abrasive paper used in woodworking.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

(3)

4. How is a nail head driven below the surface of a piece of wood?

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(2)

5. Name THREE different types of nails and give examples of where they would be used.

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_

(3)

6. Name one type of adhesive that should NEVER be used in an enclosed space.

\_\_\_\_\_

(2)

7. Make a simple sketch to show what is meant by dovetail nailing.

(2)

8. Why is it necessary to remove all traces of excess adhesive from a project which has just been “glued” up?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(2)

9. Name TWO devices used to hold glued frames and joints until the glue sets.

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_

(2)

10. How are screws named? Describe how the sizes of screws are measured.

\_\_\_\_\_  
\_\_\_\_\_

(2)

11. Briefly describe PVA glue. Describe its characteristics and uses.

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(3)

12. How would you draw-up and hold together the joints between rails and legs of a small table while gluing?

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(1)

## SECTION 5

1. Sketch a try square, describe how it is used when squaring a line around a piece of prepared wood before cutting off waste.

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(4)

2. Make a sketch of each of the joints listed below.

- (a) Butt and nailed
- (b) Cross halving
- (c) Through housing
- (d) Stopped housing

(4)

**TOTAL 104**

**END OF ASSIGNMENT**

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