

# Unit 31: Manufacture of Routine Bench Joinery Products

Unit code: M/503/4938

QCF Level: 2

Credit value: 10

Guided learning hours: 100

## Unit aim and purpose

This unit should enable the learner to be able to set out, mark out and manufacture routine joinery in a simulated industrial environment. The unit also seeks to develop an understanding of the importance of maintaining safe working processes in bench joinery operations that is carried out efficiently and accurately.

## Learning outcomes and assessment criteria

In order to pass this unit, the evidence that the learner presents for assessment needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria determine the standard required to achieve the unit.

Learning outcomes	Assessment criteria
1 Be able to prepare to manufacture routine bench joinery products to a contractor specification	1.1 select correct resources for a task to be carried out to a given specification 1.2 use measurements to manufacture routine bench joinery products 1.3 use marking out to manufacture routine bench joinery products 1.4 handle and care for tools and equipment, applying safe working practices
2 Be able to manufacture, assemble, finish, position and secure routine manufactured bench joinery products to a contractor specification, applying safe working practices	2.1 describe standard industrial techniques to manufacture routine mass-produced bench joinery products 2.2 describe processes to form machined joints associated with bench products 2.3 operate machinery and equipment to fit and assemble routine bench

	<p>joinery products</p> <p>2.4 demonstrate the safe use of hand, portable power tools, machinery and equipment</p> <p>2.5 describe the process of handling, storage and movement of finished products</p> <p>2.6 explain the shutting down of equipment, clearing work areas and waste disposal of recycled and non-recycled waste</p>
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## Unit content

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### **1 Be able to prepare to manufacture routine bench joinery products to a contractor specification**

*Resources:* characteristics of timber and timber based products: timber, hardwoods (elm, beech, ash, oak, mahogany, maple), softwoods (spruce, redwood, Douglas fir); manufactured boards and sheets (chipboard, blockboard, lamin board, plywood); external and interior quality; sheathing; shuttering; medium density fibreboard (MDF); hardboard; oriented strand board (OSB); durability; weight; workability; ability to take preservatives and finishes; quality of finish; ironmongery; seals; adhesives; finishes; fixings; other associated ancillary items; sourcing material from sustainable sources and ethical suppliers

*Use of tools and machinery:* safe use of hand, portable, mechanical and cutting, profiling tools and equipment; assembling and finishing; machinery maintenance; testing and maintenance of 25V and 55V portable power tools; setting up of equipment correctly; safe working practices; cleaning; storage; security

*Programmes of work:* importance of programmes of work; efficient methods of work; cooperation with other operatives; storage of materials; access to materials; timescales and deadlines; impact and consequences of not adhering to timescales and deadlines

### **2 Be able to manufacture, assemble, finish, position and secure routine manufactured bench joinery products to a contractor specification, applying safe working practices**

*Manufacture:* standard techniques; production of components and dry fit; assemble and finish joinery; lengthening of joints, mortice and tenon, through haunched, barefaced, blind stub, drawboard, wide rail, dowelling, housing joints, dovetails; jambs; cills; transoms; mullions; stiles; rails; bars; doors; frames; linings; units and fitments; staircases

*Procedures:* legislation; safe working practices; organisational procedures; reporting of problems and establishment of authority needed to rectify; fit and assemble routine products; produce straight in plan elevation doors, frames, linings, units, fitments and staircases; taking site/workplace dimensions; forming joints associated with product and construction method; safe manual and machine handling joinery products during preparation, manufacture, movement and storage

*Waste:* control; recyclable and non-recyclable waste; hazardous waste

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