

# National Apprenticeship - Occupational Profile

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## Craft Occupation

Wood Manufacturing and Finishing

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## Industry Served

Joinery, Furniture and Kitchen Manufacturing

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## Profile of Craft

The Craft of Wood Manufacturing and Finishing encompasses most of the skills required in the manufacture of joinery and furniture products. The areas of work covered are modern, traditional, reproduction and restoration furniture; stairs, windows, doors and wood mouldings; and stains, polishes and finishes.

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## Skills

The skills required are wide and varied, and include working with metals, plastics and other manufactured materials.

The use of all woodworking machines, IT skills and CAD/CAM software knowledge for CNC programming are essential parts of the trade.

A sound knowledge of veneering, inlaying, marquetry, turning, carving, jig making, prototyping, maintenance of equipment and developed hand skills is required.

At the end of the apprenticeship the Craftsperson will be able to demonstrate competence in the following:

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## Core Skills

### **Technical Drawing:**

Drawing in orthographic, isometric and oblique projection, freehand sketching, drawing to scale and in perspective

### **Setting Out:**

Working off drawings to set out standard or off-standard wood products

### **Breaking out:**

Producing common wood joints using a variety of machines

### **Moulding:**

Developing profile cutters and running off wood mouldings

### **Shaping:**

Making jigs and patterns for use on spindle moulders/routers

### **Sanding:**

Operating flat and profile sanding machines, evaluating the suitability of coated abrasives for various applications

### **Construction:**

Assembling by bonding, wedging or using knock down fittings, fitting ironmongery

### **Veneering and Bonding:**

Planning and preparing panels for veneering and bonding, operating all machines associated with the process

### **Computers:**

Programming and operating CNC machines to perform complex machining operations

### **Finishing:**

Applying stain and spray finish to furniture/joinery products

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## Specialist Skills

### **Wood Turning:**

Using manual, semiautomatic or CNC lathes to produce turned pieces

### **Saw Doctoring:**

Sharpening and setting circular saw blades, wide bandsaw blades and handsaw blades

### **Tool Room Maintenance:**

Operating manual, automatic and CNC grinding machines to sharpen and/or shape machine cutters

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## Common Skills

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### **Veneering and Bonding:**

Planning and preparing panels for veneering and bonding, operating all machines associated with the process

### **Finishing:**

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## Personal Skills

### **Communications:**

Engaging with colleagues to discuss procedures/strategies, resolving problems early, constantly updating colleagues both verbally and non-verbally

### **Customer Relations:**

Keeping to agreements, respecting differences in needs, keeping customer informed

### **Teamwork:**

Making positive interventions and supports to help achieve common goals

### **Independence:**

Carrying out tasks or assignments to the required standard

### **Showing initiative:**

Making positive decisions or taking positive actions to achieve desired outcomes

### **Problem Solving:**

Systematically diagnosing behaviour to find solutions to difficulties, obstacles or technical problems

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**NOTE: Integrated curriculum includes maths, science and theory**

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