# Furniture Manufacturer - Level 2

### **Occupational Profile**

The Furniture, Furnishings and Interiors industry is of significant importance to the UK economy, particularly in the supply of end products for residential and commercial living and work places. The industry has an annual turnover well in excess of £12 billion. The ability to work to agreed targets in terms of output and quality standards is essential. Workplaces can be wide-ranging from small workshops to large factories. Furniture Manufacturers must be dexterous, have a good work ethic and able to demonstrate their ability to work individually and as part of a team.

The programme is designed to give a wide range of skills appropriate to the different occupations in the industry. This apprenticeship covers the following occupational areas:

- General Furniture Manufacturer
  - Bed Manufacturer
  - Modern Upholsterer
  - Furniture Finisher
  - Fitted Furniture Installer
  - Furniture Restorer

- Modern Furniture Service Repairer
- Foam Convertor and Upholstery Cushion Interior Manufacturer
- Wood Machinist
- Furniture CNC Specialist

Each apprentice will take the occupational route that is best suited to the business they work in. They will complete all the core requirements set out below and then the set number of requirements for the chosen route.

Each business, depending on size, market position and skills needs, will require a different combination of the optional requirements detailed within each occupational area. This apprenticeship is designed to allow the business and the apprentice to agree which of these options are most valuable to the apprentice and organisation. The number of requirements is set for each occupational area as being the minimum needed to ensure competence and transferability but any employer is free to train their apprentice in additional requirements outside of the apprenticeship and at their own cost.

KNOWLEDGE	WHAT IS REQUIRED
Industry	Knowledge and understanding of general background of the furniture industry.
Organisation	Knowledge and understanding of the company you are working in. This includes understanding the manufacturing process and how you contribute and fit into it.
Materials	Knowledge and understanding of industry materials. Properties and characteristics of materials used within your organisation
Customers	Knowledge and understanding of customer expectations. Who are the industry customers and what are their expectations in terms of packaging and delivery?
Quality Standards	Know the quality standards which apply to the products and how to check that these have been met. Read and interpret specifications, drawings, cutting lists and other relevant technical information used within your organisation.
Health, Safety and Environment	Knowledge and understanding of the relevant health, safety and environmental requirements and regulations. Understand sustainability within the industry.
SKILLS	WHAT IS REQUIRED
Maintain Tools & Equipment	Perform regular autonomous maintenance tasks on machinery, tools and equipment used.
Problem Solving	Identify issues quickly, solve problems and apply appropriate solutions.
Achieve quality and output targets	Carry out work to required quality standards and output targets. High attention to detail, must monitor and check work meets specifications and must follow methodology and processes.
Health & Safety	Comply with health, safety and environmental requirements, relevant statutory regulations and industry standards/codes of practice at all times
BEHAVIOURS	WHAT IS REQUIRED
Collaboration & Adaptability	Willing to both listen and learn and to accept changing priorities and working requirements. Work effectively with others in a team whilst maintaining effective professional working

### Core Requirements: Knowledge, Skills and Behaviours

	relationships. Actively engage in wider business and look to provide information that positively contributes to the business.
Time management	Time management and ability to complete work to schedule.
Pride in the workplace	Organise work space for efficiency and effectiveness by identifying and storing items used, maintaining work area and sustaining order.

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# General Furniture Manufacturer:

Furniture Manufacturers are skilled craftsmen/women who make pieces of furniture. They may work in a small, independent shop that produces custom furniture or in a factory that mass-produces pieces of furniture. They will manufacture furniture such as:

- Domestic kitchens, bedrooms, living room and other items for the home
- Office desk, seating, tables and other items for the office environment
- Contract furniture for public areas such as hospitals, schools, hotels and airports

YOU WILL KNOW HOW TO AND BE ABLE TO

Manufacture of high quality wooden components

In order to ensure sufficient flexibility to meet the needs of the industry whilst maintaining the rigour of every single apprenticeship within it, Furniture Manufacturers will need to undertake six of the following requirements, at least three must be Group A.

Machinery, Tools and Equipment	Set up and operate machinery, tools and equipment used to produce furniture. Understand tools and equipment used
Components	Make components of furniture to specification within acceptable tolerances. Understand how and where components are used
Cutting	Use appropriate equipment to cut materials within acceptable tolerances
Joints	Understand the principles of joints used in making hand-crafted furniture
Veneers and Laminates	Select, prepare and apply veneers to items of furniture
Assembly	Assemble components of furniture. Understand the sequence of assembly and why this is important
Finishing	Apply stains, sealers, basecoats and finishes to production furniture
Measure and Mark Out	Measure and mark out materials to specification
Sanding	Sand materials for preparation prior to assembly, post-assembly and de-nibbing. Understand grit sizes and the process of sanding
Cramping	Position components and apply cramps to ensure products are positioned securely to specification
Fittings	Prepare and assemble components to specification, finishing and checking the assembly conforms to specifications
Gluing	Apply adhesives to components. Understand types, methods and processes involved in gluing
Jigs and Templates	Use and maintain jigs and templates for furniture production. <i>Jigs are used to ensure repeatability and accuracy in the production of furniture. These can be hand held or mounted on workbenches.</i>
Edge Banding	Carry out edge-banding process following standard operating procedures. Edge banding is the process of applying a trim or edge to the piece of furniture to make it neat and aesthetically pleasing.
Electrical/ Mechanical Fittings	Fit mechanical or electrical components to furniture
Rectification/ Rework	Carry out rectification or rework. This includes assessing and repairing items
Safe Handling and Storage	Pack and store products and components following standard operating procedures. Understand and follow procedures for safe handling of products
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# **Bed Manufacturer**

Bed Manufacturers work in factory environments where the ability to work to agreed targets in terms of output and quality standards is essential. Manufacturers often work shift systems and the seasonality of the industry, plus peaks and troughs in orders, often demands overtime working.

In order to ensure sufficient flexibility to meet the needs of the industry whilst maintaining the rigour of every single apprenticeship within it, Bed Manufacturers will need to undertake four of the following requirements, at least two must be Group A. These could be mattress making skills, divan and headboard making or a mixture of both.

## Mattress Making

		YOU WILL KNOW HOW TO AND BE ABLE TO
Group A	Spring Making	Prepare work area, set up machine for appropriate spring type and size and produce springs to the required specification
	Quilting	Prepare for and carry out mattress quilting operations. Understand and operate quilting machines
	Tape Edging	Prepare work area, set up machinery, select materials and carry out tape edging. <i>Tape edging is usually the final process in mattress making. It involves closing the mattress up by the application of a tape using a sewing machine</i>
	Hand Side Stitching	Identify and sort components and sew materials to specification
Group B	Panel Cutting	Prepare and cut fabric and components used for panels. Understand and use any machinery used in this process
	Sewing Borders / Labels	Identify and sort components. Sew materials to specification
	Mattress Assembly	Assemble mattresses using appropriate components such as spring units and fillings to agreed standards. This will involve the use of equipment such as a glue spray and staple guns.
	Tufting	Tuft mattresses to appropriate pattern and standard

## Divan and Headboard Making

#### YOU WILL KNOW HOW AND BE ABLE TO

A dı	Sewing	Produce sewn / seamed components by hand and through the use of machinery
	Headboard Upholstery	Upholster headboards including pleats, deep buttoning, ruching and fluting
Group	Upholstery	Prepare, cut and apply upholstery materials, trim and finish divans
	CNC Routing	Prepare, set up, operate and maintain computer numerically controlled (CNC) machinery to produce shaped headboards
Group B	Wood Machining	Prepare, set up, operate and maintain machinery to produce wood components
	Laying and Cutting Fabrics	Prepare and cut fabric and components
	Frame Making	Prepare and assemble frames using jigs

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Drawer Making	Upholster drawer fronts, prepare and assemble drawers
Ottoman / Adjustable Bed Frames	Produce ottoman or adjustable beds ensuring the mechanisms are correctly attached and in working order

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# Modern Upholsterer:

A Modern Upholsterer is a skilled and methodical individual capable of creating ergonomic and comfortable furniture using both traditional and modern techniques, materials and fabrics to produce aesthetically pleasing and fit for purpose consumer products.

In order to ensure sufficient flexibility to meet the needs of the industry whilst maintaining the rigour of every single apprenticeship within it, Modern Upholsterers will need to undertake five of the following requirements, at least two must be Group A.

		YOU WILL KNOW HOW TO AND BE ABLE TO
	Cut Fabrics and Components	Prepare and cut fabric and components used in upholstery.
	Frame Construction	Construct upholstery frames to specification. Understanding the methods used to construct frames
	Sewn / Seamed Components	Produce sewn / seamed components by hand and through the use of machinery.
Group A	Suspensions and Foundations	Select materials for suspensions including springs, pocket springs, sprung units and webbing. Apply these to frames using appropriate modern or traditional methods, tools and equipment.
	Upholstering	Measure and cut fabric, fit, apply and finish top covers including fluting, pleating and buttoning.
	Loose Covers	Cut, sew and fit loose covers to specification.
	Repair	Repair joints and frame ready for re-upholstery and revive and polish show-wood frame.
	Jigs and Templates	Use and maintain jigs and templates. <i>Jigs are used to ensure repeatability and accuracy in the production of furniture. These can be hand held or mounted on workbenches.</i>
	Produce Templates	Determine details of templates from specifications, mark out, measure dimensions and cut templates using appropriate tools and equipment.
	Resolve Faults in Leather	Deal with scuffs, scratches, stains, burn marks, water marks and discolouration in leather.
	Filling Materials	Select and fix filling materials. Understand different types and fixing methods
Group B	Fit Mechanical or Electrical Components	Assemble, fit and quality assure components.
	Cushions and Padded Items	Measure and cut fabric; sew components to produce scatter, box and bolster cushions.
	Frame Finishes	Finish and polish show-wood frames, apply stains, sealers basecoats and finishes.
	Trimmings and Finishings	Position and fix trimmings and finishings. This includes castors, valances, borders, skirts, dust covers and feet and legs.
	Strip Down Furniture	Strip back existing upholstery to frames. Understand when and how to retain original foundation work

YOU WILL KNOW HOW TO AND BE ABLE TO

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# **Furniture Finisher**

A Furniture Finisher will prepare and treat a wide range of timbers and man-made boards, using a range of techniques. Items to be finished could range from tables, chairs, lounge suites, cabinets, chests of drawers, kitchen units and shop fittings. They may also work on fitted items such as staircases, wall panels and doors, and on musical instruments like pianos. If you love working with wood this highly skilled job could be perfect for you. Most furniture finishing is done by pressure spray application, but hand polishing & other machine applications can be used. This is a skilled occupation where you need to be creative, organised, have a good eye for colour and show attention to detail. Apprentices who master this skill see the finished furniture items come to life.

Furniture Finishers will be able to undertake all of the following requirements.

#### YOU WILL KNOW HOW TO AND BE ABLE TO

reparatio	Requirements	Analyse and agree finishing requirements following organisational procedures. A customer can be internal or external to the organisation.
Prepa	Prepare furniture for finishing	Prepare hand crafted or production furniture for finishing this will include sanding, grain brushing, repair, stripping and general surface preparation.
50	Finishing Applications	Apply stains, sealers, primers, oils, polishes, varnishes, waxes, lacquers and finishing coats to furniture. Finish furniture by spraying.
Finishing	Colour Match	Identify and carry out basic colour matching to organisational standards
	Decorative & Specialist Effects	Create decorative effects or specialist finishes on furniture

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# Fitted Furniture Installer

A Fitted Furniture Installer is responsible for preparing and installing furniture including kitchens, bedrooms, bathrooms and offices, shops, exhibitions and boat interiors. This is onsite at the customer's commercial or domestic premises. Apprentices taking this route will experience a wide variety of projects and interface closely with customers. In order to ensure sufficient flexibility to meet the needs of the industry whilst maintaining the rigour of every single apprenticeship within it, Installers will need to undertake all mandatory and two of the optional requirements.

### Mandatory

#### YOU WILL KNOW HOW TO AND BE ABLE TO

Prep	Transporting & Handling of Materials	Ensure the safe transportation and handling of installation equipment and materials. The correct type and quantity of installation equipment and materials have to be located and then transported so that they arrive at the location of the installation in good order.
	Prepare Location	Prepare location for assembly and placement of furniture. This involves making the assembly and placement area ready for work and preparing the furniture components for assembly.
u	Measure and Mark Out	Measure and mark out materials to specification.
Installation	Power Tools & Hand Tools	Set up and operate tools used to assemble furniture. Understand the tools used within working area and which specific job they are used in.
lns	Assembly	Assemble components of fitted furniture and understand the sequence of assembly and why this is important
	Installation	Install furniture on location to specification. This includes scribing, fixing and securing of furniture using correct fixings relating to foundation secured to etc., adaptations to non-standard situations to specification (i.e., pipe box, sockets, gas meter)
ation	Re-instate Location	Re-instate a location after assembly and placement of furniture. This involves confirming the end of placement, ensuring all resources are cleared and maintaining customer liaison.
Post Installation	Customer Service	Develop customer relationships. This includes building customer confidence in the level of service provided, meeting the ongoing needs and expectations of customers and developing relationships between customers and your organisation
Ро	Rectification/ rework	Carry out rectification or rework. This includes changing hinges and handles. Identify snags and awareness of where to seek help and guidance.

## Optional

#### YOU WILL KNOW HOW TO AND BE ABLE TO

	Gluing	Apply adhesives to components and understand types, methods and processes involved in gluing.	
	Cut Outs	Complete standard cut-outs in work surfaces for general appliances such as taps, hobs and sinks. This covers using a template, cutting out and finishing the area.	
tion	Cramping	Position components and apply cramps to ensure products are positioned securely to specification.	
Installation	Sanding	Sand wooden work tops, trims, cornices and laminate edgings. Understand grit sizes and the process for sanding.	
-	Veneers & Laminates	Apply edging tape to laminate worktops to specification.	
	Jigs & Templates	Use and maintain jigs and templates for furniture installation. Jigs for example hinges and templates for example sinks and work tops.	
	Joints	Cut and join components on site. This could include work top jointing, up-stand, cornices and trims.	

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Fittings	Prepare and assemble components to specification, finishing and checking the assembly conforms to specifications
Electrical / Mechanical Fittings	First fit mechanical or electrical components to furniture.
Finish composite worktops	Finish work tops to specification following manufacturers' instructions.

## **Furniture Restorer**

Furniture restorers are involved in the conservation and restoration of antique and modern furniture by using practical and scientific restoration techniques. To be a furniture restorer, you should have an interest in furniture history, a desire to fix things, practical skills, an eye for detail and good observational and co-ordination skills. You should have a patient and organised approach.

The programme is designed to give a wide range of skills appropriate to restoration and repair.

In order to ensure sufficient flexibility to meet the needs of the industry whilst maintaining the rigour of every single apprenticeship within it Restorers will be able to undertake all mandatory and one of the optional requirements.

## Mandatory

Ę	Customer Service	Agree the requirements, scope of the work and the budget with the customer. Set expectations with the customer.
Preparation	Assessment	Assess items of furniture for repair in order to produce a condition and options report.
Prep	Requirements	Evaluate and specify restoration requirements. Develop a plan for the restoration work.
	Research	Carry out research to understand the history of furniture and the different periods.
ion	Repair & Restore	Repair structural components. Replicate and restore components.
Restoration	Basic Finishing	Prepare existing and newly restored surfaces and finish furniture using basic finishing methods.
Finishing	Reporting	Write a report on the work that has been carried out to include sketches and photographs of the process.
	Recommendations	Provide the customer with relevant aftercare and instructions and recommendations for future use and handling.

#### YOU WILL KNOW HOW TO AND BE ABLE TO

## Optional

		YOU WILL KNOW HOW TO AND BE ABLE TO
oecialist	Decorative Effects	Re- create decorative effects on furniture.
	Re-upholstery	Reupholster structural and decorative elements of furniture. Ensure you use appropriate fabrics.
Sp	French Polishing	French polish furniture using traditional methods to a glass finish.

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## Modern Furniture Service Repairer

Modern Furniture Service Repairers fix a wide range of problems, including damage to furniture, upholstery, beds, mattresses, mechanisms and fittings. They visit customers' premises to inspect items, assess requirements and carry out repairs.

To be a Modern Furniture Service Repairer you should have a hands on approach, with good practical skills, excellent communication skills, an eye for detail and good observational and co-ordination skills. You should have a patient and organised approach, good listening skills and be an ambassador for your company.

The programme is designed to give a wide range of skills appropriate to Modern Furniture Service Repair and will lead to a lifelong trade.

In order to ensure sufficient flexibility to meet the needs of the industry whilst maintaining the rigour of every single apprenticeship within it Modern Furniture Service Repairers will be able to undertake all mandatory and three of the optional requirements.

#### Mandatory

#### YOU WILL KNOW HOW TO AND BE ABLE TO

Preparation	Assessment	Carry out an assessment of the fault. Assess and specify requirements for work to be carried out and agree with customers.
	Customer Service	Develop customer relationships. This includes building customer confidence in the level of service provided, meeting the ongoing needs and expectations of customers and developing relationships between customers and your organisation.
off	Recommendations	Provide customers with relevant aftercare and instructions and recommendations for future use.
Sign	Report	Complete reports on the work carried out.

### Optional

#### YOU WILL KNOW HOW TO AND BE ABLE TO

Repair	Upholstery	Repair upholstery faults including fabrics, frames, fillings, stitching, scratches, scuffs, tears, holes, seam issues, discolouration and colour loss, arms, collapsed surfaces and springs.	
	Furniture	Repair furniture faults including cosmetic, structural, veneers, foil and laminated surfaces.	
	Beds and mattresses	Repair beds and mattress faults including broken frames, replacing tufts, damaged stitching and mattress settlement.	
	Flat pack	Repair flat pack furniture faults including cosmetic and structural.	
	Mechanisms and fittings	Repair/replace mechanism and fittings faults including lifting mechanisms, recliners and electrical components,	
	Leather repairs	Repair scuffs, scratches, stains, burn marks, water marks and discolouration in leather.	

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## Foam Convertor and Upholstery Cushion Interior Manufacturer

A Foam Convertor and Cushion Manufacturer produces cushioning products using a wide range of conversion equipment. This includes setting up, operating and maintaining processing and cutting equipment. This equipment can range from small manually operated machines to large automated CNC profiling and shaping equipment. They are involved in the conversion of large polyurethane blocks and other filling materials into padding and cushioning components for the production of upholstered furniture and bedding.

In order to ensure sufficient flexibility to meet the needs of the industry whilst maintaining the rigour of every single apprenticeship within it, Foam Convertor and Cushion Manufacturers will be able to undertake all mandatory requirements and 4 optional requirements.

## Mandatory

YOU WILL KNOW HOW TO AND BE ABLE TO			
u	Raw materials	Identify and explain characteristics of raw materials.	
Preparation	Product Specifications	Inderstand product specification instructions and diagrams	
Pre	Production Process & Flow Requirements	Prepare, arrange and coordinate material flow through identified work stations following required production route	
Finishing	Rectification / Rework	Identify faulty products and undertake rectification process	
	Safe Handling and Storage	Pack and label products in the required format according to customer specification	

## Optional

#### YOU WILL KNOW HOW TO AND BE ABLE TO

e u	Lay Up, Measure & Mark Out	Operate manual and / or automatic fabric spreading equipment using safe systems of work.	
Sewn Case Production	Cut Shapes	Cut shapes using manual hand held cutting equipment and / or CNC fabric cutter according to safe systems of work	
Se	Prepare Cut Parts & Sew Components	Prepare cut components ready for sewing and sew by hand through use of sewing machinery.	
n of uct	Prepare Cases	Prepare cases in line with filling requirements	
Production of filled product	Fill Cases	Fill cases through use of manual and / or automated filling methods	
Prod	Finishing	Close filling opening to required standards through use of closing machinery to prevent filling migration	
ing	Operate CNC Machinery	Prepare, set up and operate foam CNC & profiling machinery using safe systems of work.	
Foam Cutting	Operate Large Cutting Machinery	Prepare, set up and operate vertical and horizontal cutting machines using safe systems of work.	
Foa	Operate Small Cutting Machinery	Operate small cutting and shaping machinery using templates and jigs to ensure repeatability and accuracy of component parts	

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Foam assembly	Prepare Components	Prepare all cut components along with required drawings ready for assembly
	Automated Fabrication	Operate automated fabrication line to required operating procedures.
	Manual Fabrication	Assemble cut parts through correct use of sprayed adhesive equipment and assembly techniques to the required tolerances and quality standards

## Wood Machinist

A Furniture Wood Machinist produces components for furniture using a wide range of wood working machinery. This includes setting up, operating and maintaining wood working machines such as saws, planers, moulders, lathes, routers and CNC/NC machines. Wood Machinists will take raw materials and produce components to a given specification to be used in the manufacture of furniture. They will often be working individually so being able to motivate themselves and work on their own initiative is essential. Having a keen eye for detail, apprentices will work in environments from small workshops to large scale factories. Following this route will allow an apprentice to develop a wide range of skills across different types of wood working machines.

In order to ensure sufficient flexibility to meet the needs of the industry whilst maintaining the rigour of every single apprenticeship within it, Wood Machinists will be able to undertake all the mandatory requirements and four of the optional requirements.

## Mandatory

		YOU WILL KNOW HOW TO AND BE ABLE TO	
	Measure and Mark Out	Measure and mark out materials to specification within the acceptable tolerances following standard operating procedures.	
ntial	Tooling	Select, prepare and maintain woodmachining tooling.	
Essent	Cutting	Prepare, set up and operate cutting wood machinery.	
	Planing	Prepare, set up and operate planes. This includes surface planer and thicknesser (can be a combined machine) and four sided planer and moulder (for planed all round).	

## Optional

#### YOU WILL KNOW HOW TO AND BE ABLE TO

ing	Calibrating	Calibrate measuring equipment, keep tools and equipment clear of debris and dirt and ensure tools are kept sharp.		
Pre- Machining	Jigs and Templates	Use and maintain jigs and templates for furniture production. Jigs are used to ensure repeatability and accuracy in the production of furniture. These can be hand held or mounted on workbenches.		
	Profiling	Prepare, set up and operate profiling wood machinery. This includes vertical spindle moulder (straight work), four sided planer and moulder, high-speed router, double-end tenoner, wood turning lathe, copying lathe, linear shaper, rotary shaper machines		
ing	Boring	Prepare, set up and operate boring wood machinery. This includes single-head machine and multi-head machine.		
Machining	Sanding	Sand materials for preparation prior to assembly, post-assembly and de-nibbing. Understand grit sizes and the process of sanding. This includes the use of wide belt sander, overhead narrow belt sander, disc sander, bobbin sander, linisher and profile sander.		
	Edge Banding	Carry out the edge-banding process following standard operating procedures. This includes, edge-banding by hand, colour matching, timber and PVC lippings, calibration		

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		and finishing techniques.
	Operate Machinery and Equipment	Operate woodworking machinery and equipment to meet company requirements. Prepare tools and equipment including tooling technology and calibration of measuring equipment.
	Joints	Prepare, set up and operate wood machinery to produce jointed wood and wood-based products. This includes chisel morticer, chain morticer, slot morticer, dovetailer, vertical spindle moulder, stair router, single-end tenoner, double-end tenoner, round-end tenoner, dowler and router.
Finishing	Assembly	Assemble components of furniture following standard operating procedures. Understand the sequence of assembly and why this is important.

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## Furniture CNC Specialist

A Furniture CNC Specialist produces components for furniture using CNC machines. This includes setting up, operating and maintaining CNC machines and saws to cut, plane, shape and sand all types of wood and man-made wood components. They have an interest in computers and machines. They need to be able to work using their own initiative and motivate themselves. Furniture CNC Specialists work in environments where an ability to work to targets in terms of output and quality standards is essential. These can be wide ranging from small workshops to large scale factories. This programme is designed to give an excellent grounding for anyone who wants a career working with CNC machines.

In order to ensure sufficient flexibility to meet the needs of the industry whilst maintaining the rigour of every single apprenticeship within it, Furniture CNC Specialists will be able to undertake all the mandatory requirements and three of the optional requirements.

## Mandatory

		YOU WILL KNOW HOW TO AND BE ABLE TO
Essential	Measure and Mark Out Measure and mark out materials to specification within the acceptable toleran following standard operating procedures.	
	Tooling	Select, prepare and maintain CNC/NC tooling.
	Operate CNC/NC Machinery and Equipment	Operate CNC/NC machinery and equipment to meet company requirements. Prepare tools and equipment including tooling technology and calibration of measuring equipment.
	CNC/NC Processing	Understand the principles of CNC/NC processing. This includes the capabilities of machinery used, how the machinery operates, principles of machinery and the manufacturing processes used in your organisation.
	Mechatronics System Principles and Fault Finding	Understand mechatronics systems principles and fault finding. This includes diagnosing simple faults, understanding total production maintenance, engineered systems, and the basic principles of pneumatic, hydraulic, mechanical and electrical actuation systems.

## Optional

YOU WILL	KNOW	HOW	<b>TO AND</b>	<b>BE ABLE TO</b>

Preparation	Methods of Measurement	Inspect and use measuring equipment, keep tools and equipment clear of debris and dirt.
	Jigs and Templates	Use and maintain jigs and templates for furniture production. <i>Jigs are used to ensure repeatability and accuracy in the production of furniture. These can be hand held or mounted on workbenches.</i>
	Sanding	Sand materials for preparation prior to assembly, post-assembly and de-nibbing. Understand grit sizes and the process of sanding. This includes the use of wide belt sander, overhead narrow belt sander, disc sander, bobbin sander, linisher and profile sander.
	Edge Banding	Carry out the edge-banding process following standard operating procedures. This includes colour matching, timber and PVC lippings, calibration and finishing techniques.
	Planing	Prepare, set up and operate planes. This includes surface planer and thicknesser (can be a combined machine) and four sided planer and moulder (for planed all round).

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Joints	Prepare, set up and operate CNC/NC machinery to produce jointed wood and wood- based products. This includes chisel morticer, chain morticer, slot morticer, dovetailer, vertical spindle moulder, stair router, single-end tenoner, double-end tenoner, round-end tenoner, dowler and router.
Assembly	Assemble components of furniture following standard operating procedures. Understand the sequence of assembly and why this is important.

## Maths and English Requirements

For apprentices that have not yet achieved level 2 English and maths, they must achieve level 1 English and maths and take the test for level 2 prior to taking their endpoint assessment.

### Duration

Typically this apprenticeship will take 24 months to complete.

### **Review Date**

After 3 years.

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