

ARCHITECTURAL JOINER

WEST OF ENGLAND DELIVERY

didac
national training providers

APPRENTICESHIP PROGRAMMES

What is a Architectural (Bench) Joiner?

An Architectural Joiner will normally be employed in a workshop producing timber based building components and other architectural products, such as doors, windows, units and staircases, which are then transported to construction sites to be installed by site carpenters.

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.

- *learning*
- *experience*
- *confidence*

What is the Apprenticeship Standard?

A standard contains a list of the skills, knowledge and behaviours an apprentice will need to have learned by the end of their apprenticeship.

Standards are occupation-focused; they are not qualification-led. The learning happens throughout the apprenticeship. And the apprentice is assessed at the end. They need to prove that they can carry out all aspects of their job. They develop transferable skills and gain credibility too.



Duration

The minimum duration is one year before taking the end-point assessment.



LEARNING

As a Joiner, you will learn a number of skills, depending upon the type of business you are working in.

Staff can make decisions such as the type of material needed to make components / products, the ability to follow technical drawings, skills to work out amount of materials needed.

You will learn how to use machines to make components.

- learn about the organisation and industry
- learn about materials
- set up and operate machinery, tools and equipment
- make and use jigs

ABILITY

- collaboration & adaptability
- time management
- pride in the workplace
- achieve quality and output targets
- maintain tools & equipment

COMPETENCE

- communication
- tools & machinery
- legal requirements
- problem solving
- NVQ Qualification

KNOWLEDGE

- organisation
- policies and procedures
- materials
- health & safety
- quality standards



TRAINING

Apprentices are required to hold or achieve the appropriate English and Maths before taking the end-point assessment



Education & Skills
Funding Agency

WOODWISE ACADEMY, RIVERSIDE
CREWS HOLE ROAD, BRISTOL. BS5 8BB

TEL: 0800 773 4230 (freephone)
EMAIL: info@didac.co.uk
WEB: www.didac.co.uk

LEVEL 2 ARCHITECTURAL JOINER - REQUIREMENTS

Core Skills and Competencies. On completion of this apprenticeship, carpentry and joinery workers will be able to:

- Work safely and be aware of key health, safety and welfare issues.
- Plan and carry out their work to commercial standards of quality and speed.
- Move, handle and store resources, such as materials and timber components, complying with relevant legislation & guidance.
- Interpret and follow verbal and written work instructions from trade supervisors and site managers
- Select the required materials to carry out the work, such as correct timber, tools and fixings.
- Access, interpret and use drawings and specifications to carry out their work.

Core Knowledge. On completion of this apprenticeship, carpentry and joinery workers will have the following core knowledge to:

- Understand the principles of health, safety and welfare and how these are applied in the workplace.
- Understand how to communicate with others and comply with instructions and directions.
- Understand the different techniques and methods used to move, handle and store materials.
- Understand how to interpret and use relevant product information and specifications.
- Understand their responsibilities under current employment and safety legislation, such as The Health & Safety at Work Act
- Understand how to calculate quantity, length, area and wastage of resources.
- Understand the needs of other workers and how to work effectively with others.
- Understand the characteristics, quality, uses, sustainability, limitations and defects associated with timber and timber-based products and components, such as hardwood, softwood, MDF and other materials.

Specific Architectural Joiner Skill Requirements

On completion of this apprenticeship, architectural joiners will have acquired occupational skills to be able to:

- Carry out a range of job tasks including drawing, measuring, marking out, fitting, finishing, positioning and securing
- Produce setting out details for the manufacture of doors, windows and opening lights, units and stairs
- Mark out timber from setting out details for the manufacture of doors, windows and opening lights, units and/or fitments and staircases.
- Create, fit and assemble components to manufacture doors, windows with opening lights, units and/or fitments and staircases
- Use, maintain and store specific architectural joinery tools and equipment, such as marking and testing tools, power tools and hand tools

Specific Architectural Joiner Knowledge Requirements

On completion of this apprenticeship, architectural joiners will have the occupational knowledge to:

- Understand the technical principles of architectural joinery and how they are applied in routine tasks, such as, setting out and producing cutting lists, marking out from setting out details and producing cutting lists, fitting and assembling routine products.
- Understand how to accurately take site and workplace dimensions.
- Understand how to form and proportion joints associated with architectural joinery work, such as mortice and tenon, dovetail and comb joints.
- Understand why, when and how health and safety control equipment should be used when undertaking architectural joinery work (e.g. personal protective equipment (PPE) and respiratory protective equipment (RPE)).
- Understand how to use, maintain and store marking and testing tools, hand tools, power tools and associated equipment.
- Understand how to requisition architectural joinery materials, such as timber, adhesives and fixings.
- Understand how to work at height and use access equipment safely.



LEVEL 3 ADVANCED ARCHITECTURAL JOINER - REQUIREMENTS

The main differences between a level 2 architectural joiner, and a level 3 advanced architectural joiner are that the advanced joiner has responsibility for managing their own and other people's work, as well as being required to complete complex and non-standard work. Examples of complex tasks include curved products, irregular joints and bespoke work. An Advanced Architectural Joiner will normally be employed in a workshop, producing complex building components by setting out, marking out and manufacturing bespoke architectural products (e.g. doors, windows, staircases with turns and panelling/cladding).

Core Skills and Competencies. On completion of this apprenticeship, advanced carpentry and joinery workers will be able to carry out all the activities undertaken by a carpenter and joiner, but also be able to:

- Work safely and pro-actively in the application of good health and safety practice in their work area, to protect self and others.
- Understand the programme and work schedule for their work area and plan their work accordingly.
- Develop and maintain good working relationships with managers, supervisors and work colleagues.
- Determine the best way of carrying out the work and ensure this is communicated clearly to colleagues.
- Interpret technical specifications and ensure compliance with legislation/guidance relevant to the work being done.
- Select the required quantity and quality of resources required for carrying out complex and non-standard work, including timber, tools and fixings.
- Be prepared to take a lead when working in a team, especially when complex or non-standard work is involved.

Core Knowledge. On completion of this apprenticeship, advanced carpentry and joinery workers will have the same knowledge as a carpenter and joiner, but also be able to:

- Understand, in more detail, the key aspects of health, safety and welfare good practice and how to apply these to create a safe and healthy working environment.
- Understand how to plan and carry out work effectively, taking into account complex environmental and task related challenges.
- Understand how to develop and maintain excellent working relationships with others.
- Understand how to access data needed to plan and execute work tasks accurately, including an understanding of Building Information Modelling (BIM) and its impact on construction projects.
- Understand their broader responsibilities under current legislation and guidance in undertaking construction work.
- Understand the importance of team working and being prepared to take a lead.

Specific Advanced Architectural Joiner Skill Requirements. On completion of this apprenticeship, advanced architectural joiners will have the same occupational skills as a architectural joiner but will also be able to demonstrate the ability to:

- Utilise advanced trade skills to carry out complex architectural joinery work to a high standard and to demanding tolerances.
- Set out complex work tasks for non-standard architectural joinery products, including complex door sets, doors, windows, units and fitments, staircases (straight and with turns) and products with single/double curvature features.
- Mark out accurately from setting out details for the manufacture of complex doors, opening windows, units and fitments and staircases.
- Manufacture complex and non-standard architectural joinery products including doors, windows with opening lights, units and fitments, panelling/cladding, staircases (straight and with turns) and veneers.
- Use, maintain and store marking and testing tools, hand tools, power tools and associated equipment required for advanced work.
- Set up and use fixed machinery such as circular saws, planers, thicknessers, bandsaws, morticers, tenoners, spindle moulders, drills, grinders and sanders.

Optional (as determined by the employer)

- Produce computer aided design (CAD) setting out details and set out by CAD.
- Produce wood and wood-based products using computer numerically controlled/numerically controlled (CNC/NC) machinery.

Specific Advanced Architectural Joiner Knowledge Requirements. On completion of this apprenticeship, advanced architectural joiners will have the same occupational knowledge as a architectural joiner but will also:

- Understand the technical principles of advanced architectural joinery, using this knowledge to set out and produce cutting lists for complex and non-standard products, marking, manufacturing, fitting and assembling complex, non-standard products.
- Understand how to take complex site and workplace dimensions, such as measuring curved openings and ensuring that units fit obtuse/acute angled walls.
- Understand how to form and proportion advanced wood joints associated with complex architectural joinery work, such as subbed rebate joints, stub mortice and tenon joints and bridle joints.
- Understand how to set up, use and maintain fixed machinery used for complex joinery tasks, such as developing and using specialist jigs to manufacture curved timber products.

Optional (as determined by the employer)

- Understand the principles of computer aided design (CAD) and how to apply them to produce CAD setting out details and set out by CAD.
- Understand how to set up and use computer numerically controlled/numerically controlled (CNC/NC) machinery to produce timber and timber-based products.