



## LEVEL 3 NEW FURNITURE PRODUCT DEVELOPER END-POINT ASSESSMENT 603/7841/4

### 1. Introduction

The New Furniture Product Developer apprenticeship standard has been designed by employers for those developing new and improved furniture products such as domestic and office furniture. New Furniture Product Developers develop new products or improve existing products so that the company can meet customers' needs more effectively. They create design briefs using their knowledge of industry specific legislation and understanding of products and materials. They manage the furniture product development and improvement process from conception through to completion.

In their daily work, an employee in this occupation interacts with a range of people including production/manufacturing managers, quality technicians, product developers, engineers, purchasers, customers and suppliers. They understand design, testing, materials and manufacturing processes.

An employee in this occupation will be responsible for working as part of a team, collaborating with marketing, technical, suppliers and manufacturing specialists throughout the product-development and/or improvement process. They will report to a senior member of staff such as the Design Director. A New Product Developer combines design, business and engineering skills to create products that meet both market and production requirements. They also test products both internally and externally.

New Furniture Product Developers can work in a range of environments from small workshops to large factories.

#### Job titles

Typical job titles include:

Furniture design technician, Design technician, New furniture product developer, Furniture designer, Product designer, Product developer

### 2. Entry requirements

There are no formal entry requirements including qualifications for apprentices selecting this apprenticeship standard. Employers and training providers must ensure that apprentices have the potential and opportunity to achieve the apprenticeship standard successfully. Apprentices do not need any prior knowledge, skills or understanding before starting the apprenticeship.



### 3. Qualification details

Regulator	The Office of Qualifications and Examinations Regulation, Ofqual
Type	End-point Assessment
Level	3
Operational Start date	1 <sup>st</sup> September 2021
Operational End date	31 <sup>st</sup> August 2024

### 4. Gateway

Apprentices must ensure they have met gateway requirements for this standard before booking end-point assessment. Apprentices are required to achieve the following mandated qualifications for this standard:

- + Level 2 English
- + Level 2 mathematics
- + Portfolio of evidence, to support the professional discussion.

Further details on the requirements for gateway can be found in the Gateway Requirements Policy. Evidence of these qualifications must be submitted to Achieve+Partners.

### 5. Duration

Typically, this apprenticeship will take 24 months to complete.

### 6. Order of end-point assessment

The assessment methods can be delivered in any order.

### 7. Apprenticeship grading

The apprenticeship is graded fail, pass, distinction. Apprentices must achieve a minimum of a pass in each of the components.

### 8. Re-sits

An apprentice can re-sit a component of their end-point assessment if they fail. In this instance the apprentice cannot be awarded an overall grade of distinction the final grade will be capped at pass.



It is expected that a period of further learning will need to be undertaken if the apprentice has to re-sit any part of the end-point assessment. Achieve+Partners can make exemptions to this ruling should reasons for the fail are deemed to be outside the control of the apprentice.

## 9. External Quality Assurance Organisation

The end-point assessment for New Furniture Product Developer is regulated by The Office of Qualifications and Examinations Regulation, Ofqual.

## 10. End-Point Assessment (EPA) Methods

End-point assessment for this standard includes:

### Multiple Choice test

What are the requirements?	<p>A 45-minute test that has 30 multiple-choice questions that tests the knowledge assigned to this assessment method.</p> <p>The test can be taken in the workplace or at an assessment centre.</p> <p>The test is available online.</p>
Here are the ways we can help	<p>We provide online mock tests to help prepare your apprentice for the knowledge test.</p> <p>We provide an online learning module that supports the preparation for the knowledge test.</p> <p>Our online testing platform provides a simple solution that supports apprentices undertake their test.</p> <p>We provide feedback against the knowledge criteria.</p>

### Project and presentation

What are the requirements?	<p>The project takes place over a maximum 8-week period after the gateway period.</p> <p>The presentation will be delivered to an independent assessor, either face-to-face or via online video conferencing.</p> <p>Questions will be asked after the presentation is complete.</p> <p>The presentation will typically last 15-minutes, and questioning will typically last 45-minutes.</p> <p>The independent assessor will ask a minimum of eight questions.</p> <p>It can be taken in the workplace or at an assessment centre.</p> <p>The project will cover knowledge, skills and behaviours assigned to this assessment method.</p>
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Project and presentation continued

	We provide support in identifying a suitable project subject.
Here are the ways we can help	We provide an online learning module that supports the preparation for the presentation and questioning. We provide feedback against the grading criteria.

Professional Discussion underpinned by Portfolio of evidence

	The professional discussion must last 60-minutes the independent assessor must ask ten open competence-based questions.
What are the requirements?	The professional discussion can be taken in the workplace or at an assessment centre. The questions will assess the knowledge, skills and behaviours assigned to this assessment method.
Here are the ways we can help	We provide an online learning module that supports the preparation for the professional discussion. We provide feedback against the grading criteria. A portfolio of evidence template.

11. Requirements of the standard

Apprentices must demonstrate all of the knowledge, skills and behaviours listed in the standard.

Knowledge statements	Method
K1 Health, safety and environmental management and risk assessment for example Control of Substances Hazardous to Health (COSHH), Provision and Use of Work Equipment Regulations (PUWER), Health And Safety At Work Act (HASAWA), Reporting of Injuries, Diseases and Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR) and manual handling	KT
K2 Codes of Practice, industry testing and environmental standards and legislation affecting furniture design for example British Standards or Furniture & Furnishings (Fire) (Safety) Regulations	PRO
K3 Basic project management including principles and techniques of good project management	KT
K4 How to create and scale furniture designs	PRO
K5 Sustainability and protecting the environment in furniture design	KT



Knowledge statements		Method
K6	Furniture design trends, technological developments, new markets and innovation	PD
K7	Ergonomics and anthropometrics in furniture, including relating to an ageing population	KT
K8	Commercial and domestic furniture designs such as living room or office furniture	PRO
K9	How to design for furniture assembly/ disassembly – ensure product build is as quick and simple as possible, likewise disassembly to be the same as appropriate	PRO
K10	Furniture industry materials and modern and traditional manufacturing methods including plywood, MDF (Medium Density Board) and MFC (Melamine Faced Chipboard), veneers, laminates, edging materials, stains and finishes, fixtures and fittings (glass, plastics, electrical components and fittings), fabrics, springs, manmade and natural fillings and adhesives	KT
K11	Strength of materials and material selection including how/where to apply them	PRO
K12	Product and material investigation techniques for example analysis of properties, flammability, abrasion, impact, scrape and scratch resistance	PRO
K13	Furniture products and services offered to customers	PD
K14	New furniture product development introduction processes	PRO
K15	Furniture product testing methods and processes for example testing which simulates real-life use and foreseeable misuse	PRO
K16	Furniture product and material investigation techniques for example performance and durability	PD
K17	Furniture product development processes and how to improve existing products	PD
K18	Furniture manufacturing methods, processes and techniques for example CNC machining	PRO
K19	Furniture product specifications	PD
K20	How to produce 2D and 3D furniture drawings, prototypes, models, mock-ups, artwork, samples or test pieces	PRO
K21	Presentation techniques for example voice tone, positive body language and use of visuals to enhance messages	PD
K22	How to communicate furniture design proposals visually and in writing, different methods and how to use them effectively to reach agreement	PD



Knowledge statements		Method
K23	Bill of materials and costs to produce furniture designs	PRO
K24	Effective communication skills and techniques including verbal, written and physical non-verbal	PD
K25	Equality and diversity and how this applies in the workplace	KT
K26	Importance of developing good working relationships with others	KT
Skills statements		Method
S1	Work safely at all times, wearing appropriate personal protective equipment (PPE) and completing health and safety records and reports	PD
S2	Plan, organise and manage furniture design projects to successful completion	PRO
S3	Maintain furniture design records	PRO
S4	Create suitable furniture designs and concepts for furniture to be manufactured	PRO
S5	Apply furniture industry specific regulations, legislation and standards, covering COSHH, British Standards, European and American test standards, Conformité Européenne (CE) Marks, Intellectual Property, ergonomics and renewable practices to designs as appropriate	PRO
S6	Create furniture designs for assembly / manufacturing capability including the use of computer aided design (CAD), 3D modelling and surfacing	PRO
S7	Select appropriate furniture materials, products and components for the furniture designs to meet customer requirements	PRO
S8	Investigate new and existing furniture products and materials and record findings of investigations	PRO
S9	Develop new furniture products and improve furniture existing products that meet customers' needs more effectively	PRO
S10	Prove and test new and improved furniture products internally and externally	PRO
S11	Collaborate with marketing, technical, suppliers and manufacturing specialists	PRO
S12	Arrange and coordinate test build programmes for value engineering of product and componentry	PD
S13	Choose furniture manufacturing methods, processes and techniques to suit customer requirements	PRO



Skills statements		Method
S14	Develop furniture specifications for products to be manufactured	PD
S15	Produce 2D and 3D furniture drawings, prototypes, models, mock-ups, artwork, samples or test pieces to industry standards	PRO
S16	Present furniture designs to customers (internal/external)	PD
S17	Produce visuals that demonstrates how furniture designs meets the strength, aesthetics, cost and other relevant requirements of the brief	PD
S18	Collate comprehensive costing information such as a Bill of Materials	PRO
S19	Apply effective communication techniques at all levels including written and verbal communication skills	PD
S20	Develop and maintain effective working relationships	PD
Behaviour statements		Method
B1	Have a safety-first attitude, ensuring the safety of self and others as appropriate	PD
B2	Takes personal responsibility for meeting objectives of the team and business	PRO
B3	Shows integrity, aims for excellence and manages time effectively	PD
B4	Is efficient when working individually and as part of a team, with ambition to achieve in all aspects of work	PD
B5	Thorough and accurate when accomplishing tasks	PD
B6	Is friendly and approachable in a furniture design environment	PD
B7	Demonstrates creative thinking when creating designs and concepts	PRO
B8	Has a methodical approach to furniture design tasks	PD
B9	Demonstrate a positive work ethic and can-do attitude showing initiative and self-motivation	PD
B10	Demonstrate professional standards of behaviours and positive personality, to dress appropriately and be aware of personal presentation	PD
B11	Sets an example to others, is fair, consistent and reliable	PD
<b>Key</b>	KT	Multiple choice test
	PRO	Project with presentation and questions
	PD	Professional discussion supported by portfolio of evidence