

City & Guilds Level 2 Diplomas in Furniture, Furnishings and Wood Machining (5780)

March 2022 Version 1.6



Qualification at a glance

Subject area	Furniture, Furnishings and Wood Machining
City & Guilds number	5780
Age group approved	All
Assessment	Assignment/multiple choice
Fast track	Available
Support materials	Centre handbook
Registration and certification	Consult the Walled Garden/Online Catalogue for last dates

Title and level	City & Guilds number	Accreditation number
Level 2 Diploma in Furniture Making	5780-20	600/3228/5
Level 2 Diploma in Furniture Finishing Methods	5780-20	600/3191/8
Level 2 Diploma in Furniture Installation	5780-20	600/3201/7
Level 2 Diploma in Furniture Spray Finishing Methods	5780-20	600/3202/9
Level 2 Diploma in Furniture Hand Finishing Methods	5780-20	600/3199/2
Level 2 Diploma in Furnishings - Upholstery	5780-21	600/3194/3
Level 2 Diploma in Furnishings - Soft Furnishings	5780-21	600/3195/5
Level 2 Diploma in Furnishings – Mattress Making	5780-21	600/3196/7
Level 2 Diploma in Furnishings – Modern Upholstery	5780-21	600/3192/X
Level 2 Diploma in Furnishings – Traditional Upholstery	5780-21	600/3193/1
Level 2 Diploma in Wood Machining	5780-22	600/1976/1

Version and date	Change detail	Section
1.1 Sep 2012	Amend UAN – unit 206	Units
1.2 March 2017	Centre Devised Guidance	Assessment
1.5 August 2017	Added TQT details	Qualification at a glance, Structure
	Deleted QCF	Throughout
1.6 March 2022	GLH and TQT clarified and highlighted	Structure
	Information on qualifications no longer available added	



Contents

1	Introduction	6
	Structures	6
2	Centre requirements	14
	Approval	14
	Resource requirements	14
	Candidate entry requirements	15
3	Delivering the qualification	16
	Initial assessment and induction	16
	Support materials	16
4	Assessment	17
	Test specifications	19
5	Units	20
Unit 201	Creating joints and scribes for furniture installation	21
Unit 202	Design processes in furniture making	23
Unit 203	Design schemes in furnishings	25
Unit 204	Installing fitted furniture and components	27
Unit 205	Attaching doors, drawers and fittings in furniture making	30
Unit 206	Furniture making by hand	33
Unit 207	Furniture making using mechanical fixings	33
Unit 208	Furniture restoration	37
Unit 209	Hand finishing methods in furniture making	40
Unit 210	Health and safety within furniture and furnishing making environments	42
Unit 211	Manufacturing wood-based components using CNC machines	44
Unit 212	Manufacturing wood-based components using jointing machines	48
Unit 213	Manufacturing wood-based components using planing machines	52
Unit 214	Manufacturing wood-based components using powered tools	56
Unit 215	Manufacturing wood-based components using profiling machines	60
Unit 216	Manufacturing wood-based components using sanding machines	64
Unit 217	Manufacturing wood-based components using sawing machines	66
Unit 218	Matching and cutting materials in upholstery and soft furnishings	71

Unit 219	Material technology in furnishings	74
Unit 220	Timber technology in furniture making	77
Unit 221	Mattress quilting operations	80
Unit 222	Modern furniture upholstery	83
Unit 223	Modern mattress making	86
Unit 224	Planning for career pathways in furniture and furnishing industries	89
Unit 225	Professional responsibilities in furniture and furnishing making environments	93
Unit 226	Seamed components in furnishings	96
Unit 227	Soft furnishings	99
Unit 228	Spray finishing in furniture making	102
Unit 229	Sustainability in the timber trade	105
Unit 230	Technical drawings and workshop geometry	107
Unit 231	Traditional furniture upholstery	110
Unit 232	Veneering methods in furniture making	114
Appendix 1	Relationships to other qualifications	117
Appendix 2	Sources of general information	118



1 Introduction

This document tells you what you need to do to deliver the qualifications:

Area	Description
Who are the qualifications for?	They are ideal for anyone who is working in, or wants to work, in the furniture, furnishings and wood machining industry.
What do the qualifications cover?	They allow candidates to learn, develop and practise the skills required for employment and/or career progression in the Furniture Making sector.
Are the qualifications part of a framework or initiative?	They serve as a technical certificate in the Furniture, Furnishings and Interiors framework Apprenticeship framework.
What opportunities for progression are there?	<p>Candidates may be able to pursue any of the following opportunities for progression:</p> <ul style="list-style-type: none"> • Undertake a Level 3 Diploma in Furniture Restoration, Installation, Design & Making, Furnishings and Wood Machining • Undertaking an Advanced Level 3 Apprenticeship in Furniture, Furnishings and Fitted Interiors • Undertake a related Engineering Apprenticeship • Undertaking a Higher/Advanced Diploma in Manufacturing and Product Design, Construction and the Built Environment or the Creative and Media • Undertake Assessor and Verifier qualifications.

Structures

To achieve the **5780-20 Level 2 Diploma in Furniture Making**, learners must achieve **55** credits from the mandatory units. Learners can achieve up to **11** credits from the elective units, but it will not contribute to the qualification.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory			
A/503/2223	202	Design processes in furniture making	4
Y/503/2214	205	Attaching doors, drawers and fittings in furniture making	3
A/503/5140	206	Furniture making by hand	21
D/503/2151	210	Health and safety within furniture and furnishing making environments	3

Unit accreditation number	City & Guilds unit	Unit title	Credit value
F/503/2174	220	Timber technology in furniture making	6
R/503/2213	224	Planning for career pathways in furniture and furnishing industries	4
H/503/2216	225	Professional responsibilities in furniture and furnishing making environments	4
T/503/2222	229	Sustainability in the timber trade	3
K/503/2220	230	Technical drawings and workshop geometry	7
Elective			
M/503/2221	208	Furniture restoration	8
Y/503/2200	232	Veneering methods in furniture making	3

To achieve the **5780-20 Level 2 Diploma in Furniture Finishing Methods**, learners must achieve **54** credits from the mandatory units. Learners can achieve up to **11** credits from the elective units, but it will not contribute to the qualification.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory			
T/503/2219	209	Hand finishing methods in furniture making	14
D/503/2151	210	Health and safety within furniture and furnishing making environments	3
F/503/2174	220	Timber technology in furniture making	6
R/503/2213	224	Planning for career pathways in furniture and furnishing industries	4
H/503/2216	225	Professional responsibilities in furniture and furnishing making environments	4
D/503/2215	228	Spray finishing in furniture making	20
T/503/2222	229	Sustainability in the timber trade	3
Elective			
M/503/2221	208	Furniture restoration	8
Y/503/2200	232	Veneering methods in furniture making	3

To achieve the **5780-20 Level 2 Diploma in Furniture Installation**, learners must achieve **44** credits from the mandatory units.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory			
L/503/2226	201	Creating joints and scribes for furniture installation	10
Y/503/2228	204	Installing fitted furniture and components	12
J/503/2189	207	Furniture making using mechanical fixings	2
D/503/2151	210	Health and safety within furniture and furnishing making environments	3
F/503/2174	220	Timber technology in furniture making	6
R/503/2213	224	Planning for career pathways in furniture and furnishing industries	4
H/503/2216	225	Professional responsibilities in furniture and furnishing making environments	4
T/503/2222	229	Sustainability in the timber trade	3

To achieve the **5780-20 Level 2 Diploma in Furniture Spray Finishing Methods**, learners must achieve **45** credits from the mandatory units. Learners can achieve up to **11** credits from the elective units, but it will not contribute to the qualification.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory			
Y/503/2214	205	Attaching doors, drawers and fittings in furniture making	3
J/503/2189	207	Furniture making using mechanical fixings	2
D/503/2151	210	Health and safety within furniture and furnishing making environments	3
F/503/2174	220	Timber technology in furniture making	6
R/503/2213	224	Planning for career pathways in furniture and furnishing industries	4
H/503/2216	225	Professional responsibilities in furniture and furnishing making environments	4
D/503/2215	228	Spray finishing in furniture making	20
T/503/2222	229	Sustainability in the timber trade	3
Elective			
M/503/2221	208	Furniture restoration	8
Y/503/2200	232	Veneering methods in furniture making	3

To achieve the **5780-20 Level 2 Diploma in Furniture Hand Finishing Methods**, learners must achieve **39** credits from the mandatory units. Learners can achieve up to **11** credits from the elective units, but it will not contribute to the qualification.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory			
Y/503/2214	205	Attaching doors, drawers and fittings in furniture making	3
J/503/2189	207	Furniture making using mechanical fixings	2
T/503/2219	209	Hand finishing methods in furniture making	14
D/503/2151	210	Health and safety within furniture and furnishing making environments	3
F/503/2174	220	Timber technology in furniture making	6
R/503/2213	224	Planning for career pathways in furniture and furnishing industries	4
H/503/2216	225	Professional responsibilities in furniture and furnishing making environments	4
T/503/2222	229	Sustainability in the timber trade	3
Elective			
M/503/2221	208	Furniture restoration	8
Y/503/2200	232	Veneering methods in furniture making	3

To achieve the **5780-21 Level 2 Diploma in Furnishings - Upholstery**, learners must achieve **72** credits from the mandatory units.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory			
F/503/2224	203	Design schemes in furnishings	14
D/503/2151	210	Health and safety within furniture and furnishing making environments	3
D/503/2232	218	Matching and cutting materials in upholstery and soft furnishings	5
J/503/2225	219	Material technology in furnishings	7
K/503/2217	222	Modern furniture upholstery	13
R/503/2213	224	Planning for career pathways in furniture and furnishing industries	4
H/503/2216	225	Professional responsibilities in furniture and furnishing making environments	4
L/503/2209	231	Traditional furniture upholstery	22

To achieve the **5780-21 Level 2 Diploma in Furnishings – Soft Furnishings**, learners must achieve **50** credits from the mandatory units.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory			
F/503/2224	203	Design schemes in furnishings	14
D/503/2151	210	Health and safety within furniture and furnishing making environments	3
D/503/2232	218	Matching and cutting materials in upholstery and soft furnishings	5
J/503/2225	219	Material technology in furnishings	7
R/503/2213	224	Planning for career pathways in furniture and furnishing industries	4
H/503/2216	225	Professional responsibilities in furniture and furnishing making environments	4
M/503/2218	226	Seamed components in furnishings	6
R/503/2227	227	Soft furnishings	7

To achieve the **5780-21 Level 2 Diploma in Furnishings – Mattress Making**, learners must achieve **51** credits from the mandatory units.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory			
F/503/2224	203	Design schemes in furnishings	14
D/503/2151	210	Health and safety within furniture and furnishing making environments	3
D/503/2232	218	Matching and cutting materials in upholstery and soft furnishings	5
J/503/2225	219	Material technology in furnishings	7
R/503/2230	221	Mattress quilting operations	8
D/503/2229	223	Modern mattress making	6
R/503/2213	224	Planning for career pathways in furniture and furnishing industries	4
H/503/2216	225	Professional responsibilities in furniture and furnishing making environments	4

To achieve the **5780-21 Level 2 Diploma in Furnishings – Modern Upholstery**, learners must achieve **56** credits from the mandatory units.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory			
F/503/2224	203	Design schemes in furnishings	14
D/503/2151	210	Health and safety within furniture and furnishing making environments	3
D/503/2232	218	Matching and cutting materials in upholstery and soft furnishings	5
J/503/2225	219	Material technology in furnishings	7
K/503/2217	222	Modern furniture upholstery	13
R/503/2213	224	Planning for career pathways in furniture and furnishing industries	4
H/503/2216	225	Professional responsibilities in furniture and furnishing making environments	4
M/503/2218	226	Seamed components in furnishings	6

To achieve the **5780-21 Level 2 Diploma in Furnishings – Traditional Upholstery**, learners must achieve **65** credits from the mandatory units.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory			
F/503/2224	203	Design schemes in furnishings	14
D/503/2151	210	Health and safety within furniture and furnishing making environments	3
D/503/2232	218	Matching and cutting materials in upholstery and soft furnishings	5
J/503/2225	219	Material technology in furnishings	7
R/503/2213	224	Planning for career pathways in furniture and furnishing industries	4
H/503/2216	225	Professional responsibilities in furniture and furnishing making environments	4
M/503/2218	226	Seamed components in furnishings	6
L/503/2209	231	Traditional furniture upholstery	22

To achieve the **5780-22 Level 2 Diploma in Wood Machining**, learners must achieve a minimum of **52** credits; **40** credits from the mandatory units and a minimum of **12** credits from the optional units.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory			
D/503/2151	210	Health and safety within furniture and furnishing making environments	3
K/503/2234	212	Manufacturing wood-based components using jointing machines	7
H/503/2233	213	Manufacturing wood-based components using planing machines	6
M/503/2235	215	Manufacturing wood-based components using profiling machines	7
Y/503/2231	217	Manufacturing wood-based components using sawing machines	6
R/503/2213	224	Planning for career pathways in furniture and furnishing industries	4
H/503/2216	225	Professional responsibilities in furniture and furnishing making environments	4
T/503/2222	229	Sustainability in the timber trade	3
Optional			
T/503/2236	211	Manufacturing wood-based components using CNC machines	6
F/503/2238	214	Manufacturing wood-based components using powered tools	6
A/503/2237	216	Manufacturing wood-based components using sanding machines	6

Total Qualification Time

Total Qualification Time (TQT) is the total amount of time, in hours, expected to be spent by a Learner to achieve a qualification. It includes both guided learning hours (which are listed separately) and hours spent in preparation, study and assessment.

Title and level	GLH	TQT
Level 2 Diploma in Furniture Making	407	550
Level 2 Diploma in Furniture Finishing Methods	435	540
Level 2 Diploma in Furniture Installation	351	440
Level 2 Diploma in Furniture Spray Finishing Methods	351	450

Level 2 Diploma in Furniture Hand Finishing Methods	n/a	n/a
Level 2 Diploma in Furnishings - Upholstery	n/a	n/a
Level 2 Diploma in Furnishings – Soft Furnishings	n/a	n/a
Level 2 Diploma in Furnishings – Mattress Making	n/a	n/a
Level 2 Diploma in Furnishings – Modern Upholstery	n/a	n/a
Level 2 Diploma in Furnishings - Traditional Upholstery	n/a	n/a
Level 2 Diploma in Wood Machining	441	520

The following qualifications are no longer available to new learners:

	City & Guilds number	Accreditation number
Level 2 Diploma in Furniture Hand Finishing Methods	5780-20	600/3199/2
Level 2 Diploma in Furnishings - Upholstery	5780-21	600/3194/3
Level 2 Diploma in Furnishings – Soft Furnishings	5780-21	600/3195/5
Level 2 Diploma in Furnishings – Mattress Making	5780-21	600/3196/7
Level 2 Diploma in Furnishings – Modern Upholstery	5780-21	600/3192/X
Level 2 Diploma in Furnishings - Traditional Upholstery	5780-21	600/3193/1



2 Centre requirements

Approval

If your centre is approved to offer the qualification **Level 2 Certificate in Making and Installing Furniture (5610)** you can apply for the new **Level 2 Furniture, Furnishings and Wood Machining** approval using the *Fast Track Approval Form*, available from the City & Guilds website.

Centres should use the fast track form if:

- there have been no changes to the way the qualifications are delivered, and
- they meet all of the approval criteria in the fast track form guidance notes.

Fast track approval is available for 12 months from the launch of the qualification. After 12 months, the Centre will have to go through the standard Qualification Approval Process. The centre is responsible for checking that fast track approval is still current at the time of application.

To offer these qualifications, new centres will need to gain both centre and qualification approval. Please refer to the *Centre Manual - Supporting Customer Excellence* for further information. Centre staff should familiarise themselves with the structure, content and assessment requirements of the qualification[s] before designing a course programme.

Resource requirements

Physical resources and site agreements

Centres can use specially designated areas within a centre to assess. The equipment, systems and machinery must meet industrial standards and be capable of being used under normal working conditions.

Centre staffing

Staff delivering these qualifications must be able to demonstrate that they meet the following occupational expertise requirements. They should:

- be occupationally competent or technically knowledgeable in the areas for which they are delivering training and/or have experience of providing training. This knowledge must be to the same level as the training being delivered
- hold the Level 2 Furniture, Furnishings and Wood Machining, or an equivalent qualification
- have recent relevant experience in the specific area they will be assessing
- have credible experience of providing training.

Centre staff may undertake more than one role, e.g. tutor and assessor or internal verifier, but cannot internally verify their own assessments.

Assessors and internal verifiers

Centre staff should hold, or be working towards, the relevant Assessor/Verifier (A/V) units for their role in delivering, assessing and verifying these qualifications, or meet the relevant experience requirements outlined above.

Assessor/Verifier (A/V) units are valued as qualifications for centre staff, but they are not currently a requirement for the qualifications.

Continuing Professional Development (CPD)

Centres must support their staff to ensure that they have current knowledge of the occupational area, that delivery, mentoring, training, assessment and verification is in line with best practice, and that it takes account of any national or legislative developments.

Centre staff are also expected to demonstrate their CPD achievement of at least 20 CPD points from the Institute of Books, each year.

Candidate entry requirements

City & Guilds does not set entry requirements for these qualifications. However, centres must ensure that candidates have the potential and opportunity to gain the qualifications successfully.

Age restrictions

There is no age restriction for this qualification unless this is a legal requirement of the process or the environment.



3 Delivering the qualification

Initial assessment and induction

An initial assessment of each candidate should be made before the start of their programme to identify:

- if the candidate has any specific training needs
- support and guidance they may need when working towards their qualifications
- any units they have already completed, or credit they have accumulated which is relevant to the qualifications
- the appropriate type and level of qualification.

We recommend that centres provide an induction programme so the candidate fully understands the requirements of the qualifications, their responsibilities as a candidate, and the responsibilities of the centre. This information can be recorded on a learning contract.

Support materials

The following resource is available for this qualification:

Description	How to access
Developing assignments – guidance for centres	www.cityandguilds.com



4 Assessment

This qualification is assessed by a combination of online multiple choice tests and centre and marked assignments covering practical skills and underpinning knowledge. The table below provides details on the assessment methods for each unit.

Unit	Unit title	Assessment method / Where to obtain assessment materials
201	Creating joints and scribes for furniture installation	Assignment, centre devised
202	Design processes in furniture making	Assignment, centre devised
204	Installing fitted furniture and components	Assignment, centre devised
205	Attaching doors, drawers and fittings in furniture making	Assignment, centre devised
206	Furniture making by hand	Assignment, centre devised
207	Furniture making using mechanical fixings	Assignment, centre devised
208	Furniture restoration	Assignment, centre devised
209	Hand finishing methods in furniture making	Assignment, centre devised
210	Health and safety within furniture and furnishing making environments	Multiple choice, www.cityandguilds.com/5780
211	Manufacturing wood-based components using CNC machines	Assignment, centre devised
212	Manufacturing wood-based components using jointing machines	Assignment, centre devised
213	Manufacturing wood-based components using planing machines	Assignment, centre devised
214	Manufacturing wood-based components using powered tools	Assignment, centre devised
215	Manufacturing wood-based components using profiling machines	Assignment, centre devised
216	Manufacturing wood-based components using sanding machines	Assignment, centre devised

Unit	Unit title	Assessment method / Where to obtain assessment materials
217	Manufacturing wood-based components using sawing machines	Assignment, centre devised
218	Matching and cutting materials in upholstery and soft furnishings	Assignment, centre devised
219	Material technology in furnishings	Assignment, centre devised
220	Timber technology in furniture making	Assignment, centre devised
221	Mattress quilting operations	Assignment, centre devised
222	Modern furniture upholstery	Assignment, centre devised
223	Modern mattress making	Assignment, centre devised
224	Planning for career pathways in furniture and furnishing industries	Assignment, centre devised
225	Professional responsibilities in furniture and furnishing making environments	Assignment, centre devised
226	Seamed components in furnishings	Assignment, centre devised
227	Soft furnishings	Assignment, centre devised
228	Spray finishing in furniture making	Assignment, centre devised
229	Sustainability in the timber trade	Assignment, centre devised
230	Technical drawings and workshop geometry	Assignment, centre devised
231	Traditional furniture upholstery	Assignment, centre devised
232	Veneering methods in furniture making	Assignment, centre devised

Centre set assignments

Centres must refer to 'Developing assignments – guidance for centres' and the associated assignment development forms which are available to download from www.cityandguilds.com.

Example assignments and specific assessment guidance for each unit is also available for this qualification and can be found on www.cityandguilds.com.

Approval process for centre set assignments

Centre set assignments must be approved by the external verifier before use. For each assignment, the *Assignment Sign Off Sheet* (AD3) must be completed and be made available to the EV for inspection.

Time constraints

The following must be applied to the assessment of this qualification:

- Candidates must finish their assessment within six months
- Assignments should take no longer than 8 hours. If they do, centres should consider why this is, and make sure that they are not trying to gather too much evidence.

Test specifications

The way the knowledge is covered by each test is laid out in the table below:

Test 1: Unit 210

Duration: 60 minutes

Outcome	Number of questions	%
1. Know health and safety requirements in the workplace	29	72.5
2. Know how to identify hazards and risks in the workplace	11	27.5
Total	40	100

Centre set and marked assessments

City & Guilds has provided separate guidance for writers of centre based assessments which should be read in conjunction with this document, entitled, '**GM1 - Developing centre devised assessments – guidance for centre based assessment writers**'.

A set of generic recording forms is also provided as follows:

- Assessment tasks (AD1)
- Assessment grading criteria (AD2)
- Assessment sign off form (AD3)
- Evidence recording form (GF1)
- Assessment unit front and mark sheet (GF2)
- Assessment task front sheet (GF3)
- Assessment unit mark sheet (GF4)
- Assessment feedback and action plan form (GF5)
- Qualification assessment tracking form (GF6)
- Group assessment tracking form (GF7)

A full explanation of the use of these forms can be found in the centre devised assessment writing guidance. All of this material is available to download from the City & Guilds website at <http://www.cityandguilds.com/delivering-our-qualifications/centre-development/quality-assurance/quality-assurance-documents>



5 Units

Availability of units

The following units can also be obtained from the centre resources section of the City & Guilds website, and are also available on The Register of Regulated Qualifications: <http://register.ofqual.gov.uk/Unit>

Structure of units

These units each have the following:

- City & Guilds unit number
- Title
- Unit Accreditation Number (UAN)
- Level
- Credit value
- Recommended Guided Learning Hours (GLH)
- Endorsement by a sector or other appropriate body
- Unit aim(s)
- Learning outcomes which are comprised of a number of assessment criteria
- Range (where applicable)
- Notes for guidance (where applicable).

Unit 201

Creating joints and scribes for furniture installation

UAN:	L/503/2226
Level:	Level 2
Credit value:	10
GLH:	90
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	This unit is introducing learners to joints and scribes for use during installation of furniture and components. The unit requires learners to demonstrate using various joints and scribes industry and have an understanding of the faults that can occur during this part of the process. This unit will also deal with manufacturer's instructions and safe working practices

Learning outcome
The learner will: 1. Know how to joint and scribe components for furniture installation
Assessment criteria
The learner can: 1.1 describe the purpose of technical specifications 1.2 list terms used in technical specifications 1.3 describe how to select joints for tasks 1.4 describe how to mark out components 1.5 describe the functions of tools and equipment 1.6 state how characteristics of materials affect jointing and scribing 1.7 describe fixing methods 1.8 describe quality checking measures 1.9 describe how to deal with faults that occur 1.10 describe safe working practices

Range
Terms Tolerance (in the context of these standards a tolerance of +/- 0.5mm would be expected), solid wood and man-made boards, joints and scribes
Joints Mitre, mason's mitre, straight cuts, scribe

Components

Worktops, plinths, skirting, cornices, pelmets, returns, fillers, end panels

Tools and equipment

Hand tools, power tools, jigs, templates, scribing equipment

Characteristics

Solid wood and man-made boards

Methods

Gluing, pinning, cramping, screwing, mechanical fixings, filling

Quality checking measures

Fit, visual appearance and touch

Faults

Damaged materials and misalignment, incorrect jointing methods, equipment faults, untrue, out of square

Safe working practice

Manufacturers' instructions, legal requirements (Control Of Substances Hazardous to Health COSHH, Provision and Use of Work Equipment Regulations PUWER, Health And Safety At Work Act HASAWA, Personal Protective Equipment PPE)

Learning outcome

The learner will:

2. Be able to joint and scribe components for furniture installation

Assessment criteria

The learner can:

- 2.1 maintain a tidy work area
- 2.2 organise tools, jigs, templates, equipment and materials
- 2.3 create **joints**
- 2.4 create scribes
- 2.5 fix **components**
- 2.6 carry out quality checking measures
- 2.7 demonstrate how to deal with faults

Range**Joints**

Mitre, mason's mitre, straight cuts, scribe

Components

Worktops, plinths, skirting, cornices, pelmets, returns, fillers, end panels

UAN:	A/503/2223
Level:	Level 2
Credit value:	4
GLH:	22
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is introduce learners to developing designs using design processes. Learners will be required to carry out design processes and present ideas presentation techniques. Learners will understand the circular nature of the design process by continually evaluating ideas against the design brief. The unit will prepare learners for higher level design work required for careers in the furniture industry.

Learning outcome
The learner will: 1. Understand design processes
Assessment criteria
The learner can: 1.1 describe terms used in furniture design 1.2 explain the importance of design briefs 1.3 identify types of information required from design briefs 1.4 explain research that may be required 1.5 describe function lists 1.6 describe the term ergonomics 1.7 describe how initial ideas are developed 1.8 explain processes of design development 1.9 describe uses of models 1.10 describe prototypes 1.11 explain the importance of continual evaluation in the design

Range
<p>Terms Brief, prototype, function, models, ergonomics, proportion, form</p> <p>Information Function, size, fittings, finishes, aesthetics</p> <p>Research Surveys, furniture sizes, books, internet, finishes, legal requirements, economics, proportion</p> <p>Processes Design brief, research, functions, initial ideas, prototypes, models, presentation, final ideas, evaluation</p>

Learning outcome
The learner will: 2. Be able to carry out design processes
Assessment criteria
The learner can: 2.1 maintain a tidy work area 2.2 organise tools and equipment for effective working 2.3 carry out design processes 2.4 evaluate designs 2.5 present design ideas.

Range
<p>Processes Design brief, research, function lists, initial ideas, models, presentation, final ideas</p>

UAN:	F/503/2224
Level:	Level 2
Credit value:	14
GLH:	90
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to research, develop, evaluate, produce and present design schemes in furnishings. The skills covered by this unit include: researching design styles, choice of materials and the influence colour, setting, backdrop has on design schemes. Also includes the evaluation of design schemes and creation of specifications to support media.

Learning outcome
The learner will: 1. Know how to create design schemes in furnishings
Assessment criteria
The learner can: 1.1 describe the aims of design schemes 1.2 describe information required to create design schemes 1.3 describe different formats of design schemes 1.4 outline processes of developing design schemes 1.5 explain the importance of researching products 1.6 describe techniques to meet design scheme objectives 1.7 describe factors affecting material choice 1.8 outline how to record data to support evaluation decisions 1.9 explain the information that should be included in specifications

Range
Aims Purpose, durability, comfort, appearance, budgetary limits
Information Size, colour, texture, style, setting, lighting, contrast
Design schemes Mood boards, mock-ups, samples, test pieces, small scale realisation techniques
Processes Discussion, create shape, colour combinations, material choice, recording, measuring, sketching, adjusting, evaluating, pinning, trimming
Products Use of materials, current designs, product trends, shapes, styles
Techniques Preparing, forming, joining, assembling, manipulating, editing, finishing
Factors Colour, contrast, texture (softness, hardness), cost, availability, function, durability
Evaluation Performance, function, ease of use, user/audience response
Specifications Units of measurement, conventions, terms used, formats, material, colour

Learning outcome
The learner will: 2. Be able to create design schemes
Assessment criteria
The learner can: 2.1 research products for design schemes 2.2 create design schemes 2.3 evaluate design scheme 2.4 produce specifications from design schemes.

Range
Design schemes Mood board, samples, sketches

UAN:	Y/503/2228
Level:	Level 2
Credit value:	12
GLH:	110
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	This unit is introducing learners to site surveys, preparation and installation of furniture and components. The unit requires learners be able to attach various types of fittings, drawers and doors used within the furniture industry and have an understanding of the faults that can occur during this part of the process. This unit will also deal with manufacturer's instructions and safe working practices when attaching fittings.

Learning outcome
The learner will:
1. Know how to prepare sites for furniture and component installation
Assessment criteria
The learner can:
1.1 describe the purpose of technical specifications
1.2 list terms used in technical specifications
1.3 describe functions of different tools and equipment used in installation
1.4 describe methods for preparing furniture and components
1.5 identify factors site surveys indicate
1.6 describe types of fixing and fitting methods
1.7 state how characteristics of materials affect fastening selection
1.8 describe the importance of preparing sub-assemblies in sequence
1.9 describe safe working practice

<p>Range</p> <p>Terms Drawings, samples, site plans, tolerance, materials, fitting methods, client specification</p> <p>Tools and equipment Drills, drivers, SDS drill, impact drivers, jigsaw, snip saw, skill saw, hand tools, router</p> <p>Methods Marking out, drilling, boring, screwing, cutting, attach fittings</p> <p>Factors Electrical, water, gas, ventilation, communication wires, backgrounds, dimensions, plumb level, square, hazardous substances</p> <p>Fixing and fitting methods Blocks, brackets, runners, hinges, screwing, pinning, gluing</p> <p>Materials Solid timber, man made board</p> <p>Backgrounds Brick, concrete, wood, steel, plaster board, cavity</p> <p>Safe working practice Manufacturers' instructions, legal requirements (Control Of Substances Hazardous to Health COSHH, Provision and Use of Work Equipment Regulations PUWER, Health And Safety At Work Act HASAWA, Personal Protective Equipment PPE)</p>
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<p>Learning outcome</p> <p>The learner will:</p> <p>2. Know how to install furniture and components</p>
<p>Assessment criteria</p> <p>The learner can:</p> <p>2.1 describe the importance of installing sub-assemblies in sequence</p> <p>2.2 state how characteristics of backgrounds affect types of fastenings used</p> <p>2.3 describe faults that may occur during installation</p> <p>2.4 describe how to deal with faults that occur</p> <p>2.5 describe quality checking measures</p> <p>2.6 describe the process of installing furniture and components</p> <p>2.7 identify substances that may be use</p>

Range
<p>Faults Preparation, Incorrect positioning of panels, alignment, appearance of wood, warping, , damaged materials, incorrect construction methods, equipment faults, untrue, out of square</p> <p>Quality checking Fit, visual and touch</p> <p>Substances Adhesives, fillers, caulking, silicone, cleaning materials</p>

Learning outcome
The learner will: 3. Be able to install components/furniture in location
Assessment criteria
The learner can: 3.1 maintain a tidy work area 3.2 organise tools and equipment for effective working 3.3 prepare furniture and components for installation 3.4 demonstrate how to deal with faults 3.5 install furniture and components 3.6 demonstrate fixing and fitting methods 3.7 demonstrate quality checking measures

Range
<p>Furniture and components Wall unit, base unit, door, drawer</p> <p>Fixings and fittings Blocks, brackets, runners, hinges, screwing, pinning, gluing</p>

Unit 205

Attaching doors, drawers and fittings in furniture making

UAN:	Y/503/2214
Level:	Level 2
Credit value:	3
GLH:	20
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	To be able to attach various types of fittings, drawers and doors used within the furniture industry and have an understanding of the faults that can occur during this part of the process. This unit will also deal with manufacturer's instructions and safe working practices when attaching fittings.

Learning outcome
The learner will: 1. Know how to fit doors, drawers and attach fittings in furniture making
Assessment criteria
The learner can: 1.1 describe the purpose of technical specification 1.2 list terms used in technical specifications 1.3 describe functions and uses of tools and equipment 1.4 describe handling characteristics of materials 1.5 describe faults that may lead to rejection of doors or drawers 1.6 describe methods for attaching drawers and doors 1.7 describe functions of fittings 1.8 describe how to resolve fitting faults 1.9 describe methods for attaching fittings 1.10 explain how to quality check 1.11 describe consequences of not carrying out quality checks

Range
Terms Jobs sheet, drawings, components list, tolerance of +/- 0.5mm
Tools and equipment Sander, scraper, drills, staple gun, pin gun, screw gun, cramps, Marking gauge, tape measure
Materials Natural timber and wood composites
Faults Incorrect positioning of panels, alignment, appearance of wood, warping, quality
Fittings Hinges, mouldings, handles, runners, stops, locks, castors, catches, brackets, action mechanisms, pre-cut glassware
Fitting faults Re-alignment, return to originator
Methods Doors and drawers: hinges, runners, handles Fittings: screwing, pinning, bolting, cam and dowel
Safe working practice Manufacturers' instructions, legal requirements (Control Of Substances Hazardous to Health COSHH, Provision and Use of Work Equipment Regulations PUWER, Health And Safety At Work Act HASAWA, Personal Protective Equipment PPE)

Learning outcome
The learner will: 2. Be able to fit doors, drawers and attach fittings in furniture making
Assessment criteria
The learner can: 2.1 maintain a tidy work area 2.2 organise tools and equipment for effective working 2.3 demonstrate resolving faults 2.4 position fittings 2.5 attach fittings 2.6 fit doors and drawers 2.7 demonstrate quality checking methods
Range
Fittings Hinges, mouldings, handles, runners, stops

UAN:	A/503/5140
Level:	Level 2
Credit value:	21
GLH:	190
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to provide the learner with the knowledge and practical skills to be able to make furniture by hand. This unit will cover preparing, cutting, jointing and shaping methods as well as working to technical specifications. Learners will be able to respond to the faults in materials and produce quality pieces.

Learning outcome
The learner will: 1. Understand the process of furniture making by hand
Assessment criteria
The learner can: 1.1 describe the purpose of technical specifications 1.2 list terms used in technical specifications 1.3 describe functions of substances used in furniture assembly 1.4 describe functions of tools and equipment used in furniture assembly 1.5 describe defects in materials that affect selection 1.6 state how characteristics of materials affect cutting and handling 1.7 describe different cutting methods 1.8 describe different shaping and moulding methods 1.9 describe the suitability of materials for different joint constructions 1.10 describe mechanics of joint constructions 1.11 describe quality checking measures 1.12 describe how to deal with faults that occur 1.13 describe the assembly process of furniture

Range
<p>Terms Tolerance (in the context of these standards a tolerance of +/- 0.5mm would be expected), solid wood, man-made boards, joints</p> <p>Tools and equipment Hand tools, power tools, jigs, templates, wood machines, workshop devices</p> <p>Defects Knots, discolouration, sap, grain, shakes</p> <p>Characteristics Solid wood, man-made boards, face-fixing, edge-fixing</p> <p>Cutting methods Sawing, planing, chiselling, routing, jointing, scribing</p> <p>Shaping and moulding methods Profiling machines, hand tools, power tools</p> <p>Mechanics Dovetails, mortice and tenon, tongue and groove, housing, butt, lap</p> <p>Faults Jointing, moulding and shaping, cutting, sanding</p> <p>Assembly Table, cabinet, box, drawer, door</p> <p>Safe working practice Manufacturers' instructions, legal requirements (Control Of Substances Hazardous to Health COSHH, Provision and Use of Work Equipment Regulations PUWER, Health And Safety At Work Act HASAWA, Personal Protective Equipment PPE)</p>

Learning outcome
<p>The learner will:</p> <ol style="list-style-type: none"> 2. Be able to cut, joint, shape and mould materials for furniture making by hand
Assessment criteria
<p>The learner can:</p> <ol style="list-style-type: none"> 2.1 maintain a tidy work area 2.2 organise tools and equipment for effective working 2.3 cut materials to produce components and joints 2.4 shape and mould components.

Learning outcome
The learner will: 3. Be able to assemble furniture making by hand
Assessment criteria
The learner can: 3.1 assemble components 3.2 carry out quality checking measures 3.3 demonstrate how to deal with faults.

UAN:	J/503/2189
Level:	Level 2
Credit value:	2
GLH:	16
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	This unit develops knowledge and understanding of the learner for preparing and assembling furniture using mechanical fixings, giving the learner practical experience in using a variety of fixing methods.

Learning outcome
The learner will: 1. Understand the process of preparing and assembling furniture using mechanical fixings
Assessment criteria
The learner can: 1.1 describe the purpose of technical specifications 1.2 list terms used in technical specifications 1.3 describe the functions and uses for types of tools and equipment used in component assembly 1.4 describe techniques for preparation 1.5 describe types of jointing methods using mechanical fixings 1.6 state how characteristics of materials affect handling 1.7 describe the importance of assembling components in sequence 1.8 describe substances that may be used in assembly 1.9 describe quality checking measures 1.10 describe how to deal with faults that occur

Range
<p>Terms Tolerance (in the context of these standards a tolerance of +/- 0.5mm would be expected), solid wood, man-made boards, mechanical fixings</p> <p>Tools and equipment Hand tools, power tools, jigs and templates</p> <p>Techniques Filing, sanding, drilling, boring, screwing, marking out</p> <p>Mechanical fixings Screws, staples, cam and pin, blocks, pins, bolts, dowels, biscuits</p> <p>Materials Solid wood, man-made boards, face-fixing, edge-fixing</p> <p>Substances Grease, adhesives, solvents</p> <p>Measures Visual and touch</p> <p>Faults Damaged materials and fastenings, misalignment, incorrect fastenings, equipment faults</p>

Learning outcome
The learner will:
2. Be able to prepare and assemble furniture using mechanical fixings
Assessment criteria
The learner can:
2.1 maintain a tidy work area,
2.2 organise tools, jigs, templates, equipment and materials
2.3 select components for assembly.
2.4 select mechanical fixings
2.5 assemble components using mechanical fixings
2.6 carry out quality checking measures
2.7 demonstrate how to deal with faults

Range
<p>Mechanical fixings Screws, staples, cam and pin, blocks, pins, bolts, dowels, biscuits</p>

UAN:	M/503/2221
Level:	Level 2
Credit value:	8
GLH:	55
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	This unit introduces learners to the principles of furniture restoration. Learners will explore the difference between restoration and conservation and research the history of materials. Learners are required to have experience in furniture making as this unit develops those knowledge and skills in a restoration context

Learning outcome
The learner will:
1. Understand how to carry out restoration on components of furniture
Assessment criteria
The learner can:
1.1 describe the principles of furniture restoration
1.2 describe the principles of furniture conservation
1.3 identify materials used in different historical periods
1.4 describe factors for selecting materials in restoration
1.5 describe terms used in furniture restoration
1.6 describe the furniture restoration process
1.7 describe potential consequences of different cleaning methods
1.8 describe the diverse nature of furniture restoration
1.9 describe the content of a condition report
1.10 describe tools and equipment used during furniture restoration assessment
1.11 identify safe working practice

Range
<p>Furniture restoration Like for like, ethical, sympathetic, historical research, useable</p> <p>Furniture conservation Preventative care, establish and stop cause of deterioration</p> <p>Historical periods 16th Century to 20th Century</p> <p>Factors colour, patina, reflectivity, processing marks, thickness of veneers, adhesive, quality, appearance</p> <p>Terms Restore, conserve, repair, replicate</p> <p>Process Assessment, restoration, finishing</p> <p>Methods Water, soap, turpentine, metholated sprits, strippers, cloth, wire wool</p> <p>Content Joints stability, surface damage, cause of deterioration/damage</p> <p>Tools and equipment Measuring tapes/rules/ metal detectors / dismantling tools – reverse clamps, syringe, hand tools, gluepots</p> <p>Safe working practice PPE, legal requirements, Health and Safety at work act (HASAWA), control of substances hazardous to health (COSHH), Risk assessments</p>

Learning outcome
The learner will:
2. Be able to carry out restoration on components of furniture
Assessment criteria
The learner can:
2.1 maintain a tidy work area, organise tools and equipment
2.2 carry out condition reports on items for conservation
2.3 carry out condition reports on items for restoration
2.4 carry out restorations on joints
2.5 carry out restorations on veneers
2.6 carry out surface finish on fittings

Range
Joints Mortice and tenon
Veneers Wood
Surface finish Polishing, ageing
Furniture Boxes, Chair, table, desk, frames
Suitable Timber type, grain, colour, age
Repairs Joints, stabilise, splicing, inlaying

Unit 209

Hand finishing methods in furniture making

UAN:	T/503/2219
Level:	Level 2
Credit value:	14
GLH:	120
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to provide the learner with the knowledge and practical skills to be able to prepare furniture and coating materials. This unit will cover preparing work pieces and materials, taking into account the faults that could arise and any application faults with materials. The unit give an awareness of health and safety legislation using data sheets for using and disposing of waste materials.

Learning outcome
The learner will: 1. Understand the process of hand finishing furniture
Assessment criteria
The learner can: 1.1 explain the purpose of technical specification 1.2 list terms used in technical specifications 1.3 describe functions tools and equipment 1.4 describe functions of materials 1.5 describe preparations for surfaces 1.6 describe types of surface changes 1.7 describe grades of abrasives 1.8 describe types of fillers and stoppers 1.9 describe how to deal with application faults 1.10 describe quality checking measures 1.11 describe the finishing process 1.12 identify drying times 1.13 describe safe working practice

Range
Terms Viscosity, colour, formulation, natural, forced, diagrams, colour cards

<p>Tools and equipment Cloths, brushes, rags, pads, sponges, tak rags, scrapers, sanding blocks, filler knives, steel wool, masking tape, abrasive pads, Sanding equipment, rubbers</p> <p>Materials Modern stains, Pre-formulated traditional stains, Sealers, two-pack sealers, primers, shellac sealers, French polishing lacquers, oil, water or mixed solvents, de-greasing agents, cleaning solvents, waxes, stoppers, burnishing creams, bleach, abrasive powders</p> <p>Surfaces Solid wood, veneered, flat panels, curved work, Sub assembly or assembly, wood composite</p> <p>Surface changes Holes, scratches, chips, dents, cracks, blisters, blemishes</p> <p>Application faults Uneven applications, poor wetting, blotching, marking of the surface, drips, runs, streaks, mismatched shading, poor surface finish</p> <p>Finishing process Preparation, staining, sealing, final coating</p> <p>Drying times Curing, working time, recoating time</p> <p>Safe working practice Manufacturers' instructions, legal requirements (Control Of Substances Hazardous to Health COSHH, Provision and Use of Work Equipment Regulations PUWER, Health And Safety At Work Act HASAWA, Personal Protective Equipment PPE)</p>

<p>Learning outcome</p> <p>The learner will:</p> <p>2. Be able to hand finishing furniture</p>
<p>Assessment criteria</p> <p>The learner can:</p> <p>2.1 maintain a tidy work area</p> <p>2.2 organise tools and equipment for effective working</p> <p>2.3 demonstrate quality checking methods</p> <p>2.4 prepare surfaces for finishing</p> <p>2.5 carry out hand finishing process.</p>
<p>Range</p> <p>Hand finishing Stains, basecoats, primers, final coats</p>

Unit 210

Health and safety within furniture and furnishing making environments

UAN:	D/503/2151
Level:	Level 2
Credit value:	3
GLH:	18
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	This unit introduces learners to best working practice and the legal responsibilities they have in the workplace. Learners will develop understanding of hazards and how to reduce risks in the workplace. They will understand how to evaluate the severity of risks

Learning outcome
The learner will: 1. Know health and safety requirements in the workplace
Assessment criteria
The learner can: 1.1 state health and safety responsibilities of the individual 1.2 identify relevant workplace instructions 1.3 identify working practices in a furniture/interiors related workplace with the potential to cause harm 1.4 identify the importance of reporting differences between suppliers, manufacturers or workplace instructions 1.5 describe safe working practice in a furniture/interiors related workplace.

Range
<p>Workplace instructions Manufacturers' instructions, legal requirements (Control Of Substances Hazardous to Health COSHH, Provision and Use of Work Equipment Regulations PUWER, Health And Safety At Work Act HASAWA)</p> <p>Working practice Use of: machinery, tools, equipments, substances, manual handling, storage, housekeeping</p> <p>Safe working practice Use of PPE, risk assessments, observe safe operating procedures, legal requirements</p>

Learning outcome
The learner will:
2. Know how to identify hazards and risks in the workplace
Assessment criteria
The learner can:
2.1 describe hazards which may be present in a furniture/interiors related workplace
2.2 explain the importance of remaining alert to the presence of hazards
2.3 explain the importance of dealing with hazards promptly
2.4 describe risks which may occur in a furniture/interiors related workplace
2.5 describe the employees responsibilities for controlling risks
2.6 describe risk assessments
2.7 explain individual involvement of employees in risk assessments.

Range
<p>Hazards Activity, area</p> <p>Risks Activity, area</p> <p>Responsibilities Duty of care, correct personal conduct, observing working practices, legal requirements</p> <p>Risk assessments Formal record, document location</p> <p>Individual involvement Conduct risk inspection before each task (informal), respond to formal risk assessment</p>

Unit 211

Manufacturing wood-based components using CNC machines

UAN:	T/503/2236
Level:	Level 2
Credit value:	6
GLH:	57
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to develop the knowledge, understanding and skills, required to set up and operate a range of computer numerical controlled machines to produce computer numerical controlled machine profiles on wood-based components within the relevant sector of industry

Learning outcome
The learner will: 1. Understand the process of setting up and operating computer numerical controlled machines to produce a range of profiles on wood-based components
Assessment criteria
The learner can: 1.1 describe specifications used to produce a range of profiles on wood-based components 1.2 describe characteristics of wood-based materials that affect selection 1.3 explain how to store wood-based materials 1.4 describe the function of computer numerical controlled machines 1.5 identify types of tooling 1.6 describe the setting up operations of computer numerical controlled machines 1.7 describe how wood-based materials are secured throughout the machining process 1.8 list a range of computer numerical controlled machine profiles and identify the most suitable computer numerical controlled machine for each 1.9 identify relevant health and safety guidelines 1.10 identify problems in the computer numerical controlled process 1.11 describe how waste material is cleared and disposed of

- 1.12 outline **maintenance schedules**
- 1.13 explain program storage methods
- 1.14 describe modes and functions of keyboards
- 1.15 describe how to maintain computer numerical controlled machines.

Range

Specifications

Drawings, specifications, schedules, cutting lists, risk assessments, manufacturers' information, tolerances

Characteristics

Shakes, knots, waney edge, sap, cupping, bowing, springing, twisting, splitting, fungal staining, fungal and insect attack, moisture content, kilning defects, case hardening, timber conversion, working properties

Wood-based materials

Hardwood, softwood, manufactured board

Computer numerical controlled machines

CNC router, CNC lathe, CNC saw

Tooling

Router cutters, drill bits, saw blades

Operations

Isolation, start up and shut down of machine, handling, fitting and adjustment of tooling, inputting programs, program proving, securing component, fitting and adjustment of tooling, LEV

Secured

Vacuum table, clamps, jigs

Computer numerical controlled machine profiles

Straight, contoured, bored holes, sawn profiles

Health and safety guidelines

Manufacturers' instructions, Health and Safety at Work Act (HASWA), Provision and Use of Work Equipment Regulations (PUWER), Manual Handling Operations Regulations, Control of Substances Hazardous to Health Regulations (COSHH), Control of Noise at Work Regulations, Electricity at Work Regulations, Personal Protective Equipment Regulations (PPE) and related Approved Codes of Practice (ACOP)

Problems

Machine malfunction, component moves off fixing during processing, wood-based component reveals or develops undesirable characteristic during processing

Maintenance schedules

Visual inspection, routine maintenance, lubrication schedule, servicing schedule timetable

Learning outcome
<p>The learner will:</p> <p>2. Be able to operate the computer numerical controlled machine safely whilst producing profiles on wood based components to specifications</p>
Assessment criteria
<p>The learner can:</p> <p>2.1 extract data from specifications</p> <p>2.2 select computer numerical controlled machine to meet specifications</p> <p>2.3 carry out setting up operations to meet specifications</p> <p>2.4 follow safe practices when feeding wood-based components through the computer numerical controlled machine</p> <p>2.5 feed wood-based components through computer numerical controlled machines at correct speed to obtain the desired surface finish</p> <p>2.6 produce CNC profiles on wood-based materials</p> <p>2.7 load and unload components onto work table</p> <p>2.8 rectify problems as and when they occur</p> <p>2.9 maintain a tidy work area, organise tools and equipment for effective working</p>

Range
<p>Safe practices</p> <p>Stay outside computer numerical controlled machine enclosure, proximity of body to movable worktable</p>

Unit 211 **Manufacturing wood-based components using CNC machines**

Supporting information

Unit range

Learner must use at least one CNC machine and produce a selection of CNC profiles listed in the range.

Guidance

Learners at this level are required to operate the machine but are not required to programme the machine.

AC 1.2: Tutors should be aware of timber technology with reference to the characteristics of wood based materials.

AC1.15: Maintenance here refers to cleaning, lubrication and storage, not sharpening.

Unit 212

Manufacturing wood-based components using jointing machines

UAN:	K/503/2234
Level:	Level 2
Credit value:	7
GLH:	67
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to develop the knowledge, understanding and skills, required to set up and operate a range of jointing machines to produce joints on wood-based components within the relevant sector of industry.

Learning outcome
The learner will: 1. Understand the process of setting up and operating jointing machines to produce a range of joints on wood-based components
Assessment criteria
The learner can: 1.1 describe specifications used to produce a range of joints on wood-based components 1.2 describe characteristics of wood-based materials that affect selection 1.3 explain how to store wood-based materials 1.4 describe the function of jointing machines 1.5 identify types of jointing machines 1.6 describe types of joint cutting tooling 1.7 describe the setting up operations of jointing machines 1.8 describe component feed and dimensional control devices 1.9 describe how wood-based materials are supported throughout the machining process 1.10 list a range of joints and identify the most suitable jointing machines for each 1.11 identify relevant health and safety guidelines 1.12 identify problems that can occur in the jointing process 1.13 describe how waste material is cleared and disposed of 1.14 outline maintenance schedules

Range

Specifications

Drawings, specifications, schedules, cutting lists, risk assessments, manufacturers' information, tolerances

Characteristics

Shakes, knots, waney edge, sap, cupping, bowing, springing, twisting, splitting, fungal staining, fungal and insect attack, moisture content, kilning defects, case hardening, timber conversion, working properties

Wood-based materials

Hardwood, softwood, manufactured board

Jointing machines

Hollow chisel morticer, tenoning machines either single or double ended, spindle moulder, router machine, dowelling machine

Joint cutting tooling

Hollow chisel, cutting heads, tenoning blocks, scribing cutters, dovetail cutters, housing cutters, straight router cutters, boring bits

Operations

Isolation, start up and shut down of machine, handling, fitting and adjustment of joint cutting tooling, equipment, guards, LEV, use of feed and dimensional control devices

Feed and dimensional control devices

Push sticks, manual feed roller, power feed, sliding table, jigs, auxiliary tables, bed piece and shop made devices

Supported

Extension tables, support rollers, supporting personnel

Joints

Through mortice, stub mortice, haunched mortice, angled mortice: tenon with even shoulders, tenon with long and short shoulders, scribed tenon, dowel joints, finger joints, tongue and groove, dovetail, housing joint

Health and safety guidelines

Manufacturers' instructions, Health and Safety at Work Act (HASWA), Provision and Use of Work Equipment Regulations (PUWER), Manual Handling Operations Regulations, Control of Substances Hazardous to Health Regulations (COSHH), Control of Noise at Work Regulations, Electricity at Work Regulations, Personal Protective Equipment Regulations (PPE) and related Approved Codes of Practice (ACOP)

Problems

Machine malfunction, wood-based component reveals or develops undesirable characteristic during processing

Maintenance schedules

Visual inspection, routine maintenance, lubrication schedule, servicing schedule timetable

Learning outcome

The learner will:

2. Be able to operate the jointing machine safely whilst producing joints on wood based components to specifications

Assessment criteria

The learner can:

- 2.1 extract data from specifications
- 2.2 select jointing machines to meet specifications
- 2.3 carry out setting up operations to meet specifications
- 2.4 demonstrate **safe practices** when hand feeding wood-based components through the jointing machines
- 2.5 feed wood-based components through jointing machines at correct speed to obtain the desired surface finish
- 2.6 produce joints on wood-based materials
- 2.7 rectify problems as and when they occur
- 2.8 maintain a tidy work area, organise tools and equipment for effective working
- 2.9 comply with the relevant health and safety guidelines

Range**Safe practices**

Use of feed and dimensional control devices, position of hands and body in respect of proximity to joint cutting tooling and in the event of component 'kick-back'

Unit 212 Manufacturing wood-based components using jointing machines

Supporting information

Unit range

Learner must produce joints listed in the range and select the appropriate jointing machine. As a minimum they must use the hollow chisel morticer, tenoning machine (either single or double ended) spindle moulder or router.

Guidance

AC 1.2: Tutors should be aware of timber technology with reference to the characteristics of wood based materials.

AC1.15: Maintenance here refers to cleaning, lubrication, storage not sharpening.

Unit 213

Manufacturing wood-based components using planing machines

UAN:	H/503/2233
Level:	Level 2
Credit value:	6
GLH:	54
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to develop the knowledge, understanding and skills, required to set up and operate a range of planing machines to produce planed profiles on wood-based components within the relevant sector of industry.

Learning outcome
The learner will: 1. Understand the process of setting up and operating planing machines to produce a range of planed profiles on wood-based components
Assessment criteria
The learner can: 1.1 describe specifications used to produce planed profiles on wood-based components 1.2 describe characteristics of wood-based materials that affect selection 1.3 explain how to store wood-based materials 1.4 describe the function of planing machines 1.5 identify types of planer knives 1.6 describe the setting up operations of planing machines 1.7 describe component feed and dimensional control devices 1.8 describe how wood-based materials are supported throughout the machining process 1.9 list a range of planed profiles and identify the most suitable planing machines for each 1.10 identify relevant health and safety guidelines 1.11 identify problems that can occur in the planing process 1.12 describe how waste material is cleared and disposed of 1.13 outline maintenance schedules 1.14 describe how to maintain planer knives.

Range

Specifications

Drawings, specifications, schedules, cutting lists, risk assessments, manufacturers' information, tolerances

Characteristics

Shakes, knots, waney edge, sap, cupping, bowing, springing, twisting, splitting, fungal staining, fungal and insect attack, moisture content, kilning defects, case hardening, timber conversion, working properties

Wood-based materials

Hardwood, softwood, manufactured board

Planing machines

Handfed surface planer, panel thicknesser (can be combined)

Planer knives

Reusable planer knives, disposable knives

Operations

Isolation, start up and shut down of machine, adjustment of planer knives, tooling and equipment, guards, LEV, use of feed and dimensional control devices

Feed and dimensional control devices

Push block for short or thin wood-based components, power feed, jigs, auxiliary tables and bed piece, shop made devices

Supported

Extension tables, support rollers, supporting personnel

Planed profiles

Face side, face edge, width, thickness, PAR (planed all round), rebate, chamfer, bevel

Health and safety guidelines

Manufacturers' instructions, Health and Safety at Work Act (HASWA), Provision and Use of Work Equipment Regulations (PUWER), Manual Handling Operations Regulations, Control of Substances Hazardous to Health Regulations (COSHH), Control of Noise at Work Regulations, Electricity at Work Regulations, Personal Protective Equipment Regulations (PPE) and related Approved Codes of Practice (ACOP)

Problems

Machine malfunction, wood-based component reveals or develops undesirable characteristic during processing

Maintenance schedules

Visual inspection, routine maintenance, lubrication schedule, servicing schedule timetable

Learning outcome
The learner will: 2. Be able to operate the planing machine safely whilst producing profiles on wood based components to specifications
Assessment criteria
The learner can: 2.1 extract data from specifications 2.2 select planing machines to meet specifications 2.3 carry out setting up operations to meet specifications 2.4 demonstrate safe practices when hand feeding wood-based components through the planing machines 2.5 feed wood-based components through planing machines at correct speed to obtain the desired surface finish 2.6 produce a range of planed profiles on wood-based materials 2.7 rectify problems as and when they occur 2.8 maintain a tidy work area, organise tools and equipment for effective working 2.9 comply with the relevant health and safety guidelines

Range
Safe practices Use of feed and dimensional control devices, position of hands and body in respect of proximity to profile cutter and in the event of component 'kick-back'
Range of planed profiles Face side, face edge, width, thickness, PAR (planed all round), chamfer, bevel

Unit 213 **Manufacturing wood-based components using planing machines**

Supporting information

Unit range

Learner must use both handfed surface planer, panel thicknesser (can be combined) and produce all of the planed profiles listed in the range.

Guidance

AC 1.2: Tutors should be aware of timber technology with reference to the characteristics of wood based materials. With regards to the planing of manufactured boards on planing machines here we are referring to edging of manufactured board on hand fed surface planer.

AC1.14: Maintenance here refers to cleaning, lubrication and honing in situ.

Unit 214

Manufacturing wood-based components using powered tools

UAN:	F/503/2238
Level:	Level 2
Credit value:	6
GLH:	54
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to develop the knowledge, understanding and skills required to produce wood-based components using powered tools within the relevant sector of industry.

Learning outcome
The learner will: 1. Understand the process of setting up and operating powered tools to carry out a range of profiles on wood-based components
Assessment criteria
The learner can: 1.1 describe specifications used to produce a range of profiles on wood-based components 1.2 describe characteristics of wood-based materials that affect selection 1.3 describe storage of wood-based materials 1.4 describe the function of powered tools 1.5 identify types of powered tools 1.6 describe power sources 1.7 describe types of consumables 1.8 describe the setting up operations of powered tools 1.9 describe component dimensional control devices 1.10 describe how wood-based materials are supported throughout the manufacturing process 1.11 list a range of profiles and identify the most suitable powered tools for each 1.12 identify relevant health and safety guidelines 1.13 identify problems in the manufacturing process 1.14 describe how waste material is cleared and disposed of 1.15 outline maintenance schedules 1.16 describe how to maintain powered tools.

Range

Specifications

Drawings, specifications, schedules, cutting lists, risk assessments, manufacturers' information, tolerances

Characteristics

Shakes, knots, waney edge, sap, cupping, bowing, springing, twisting, splitting, fungal staining, fungal and insect attack, moisture content, kilning defects, case hardening, timber conversion, working properties

Wood-based materials

Hardwood, softwood, manufactured board

Powered tools

Electrical, battery operated and air-powered:-
drill, screw driver, router, sander, jigsaw, portable circular saw, biscuit/loose tongue jointer, power planer, fretsaw, hot air gun, staple gun, angle grinder with wood cutting attachment. bench grinder, drill press, portable local exhaust ventilation (LEV)

Power sources

Mains electricity at 240V, mains electricity stepped down by using a transformer which reduces the voltage to 110V, electricity supplied at 110V (used on all sites and in workshops), electricity supplied by battery to cordless power tools (9–15V) which can be recharged, compressed air tools

Consumables

Drill bits, router cutters, abrasive belt/discs, jigsaw blades, circular saw blades, chop/pull over saw, biscuit/loose tongue jointer cutters and biscuit/loose tongues, power planer knives, fretsaw blades, LEV filter bags

Operations

Isolation, start up and shut down of powered tool, handling, fitting and fixing of consumables, adjustment of tooling and equipment, guards, LEV, use of dimensional control devices

Dimensional control devices

Fences, guides, jigs, auxiliary tables and bed piece, shop made devices

Supported

Bench vice/dogs, clamps & cramps, extension tables, support rollers, trestles, supporting personnel

Profiles

Holes, profiles, contours, sanded finishes, slots

Health and safety guidelines

Manufacturers' instructions, Health and Safety at Work Act (HASWA), Provision and Use of Work Equipment Regulations (PUWER), Manual Handling Operations Regulations, Control of Substances Hazardous to Health Regulations (COSHH), Control of Noise at Work Regulations, Electricity at Work Regulations, Personal Protective Equipment Regulations (PPE) and related Approved Codes of Practice (ACOP)

Problems

Powered tool malfunction, wood-based component reveals or develops undesirable characteristic during processing, component moves off fixing during processing

Maintenance schedules

Visual inspection, routine maintenance, lubrication schedule, servicing schedule timetable

Learning outcome

The learner will:

2. Be able to operate powered tools safely whilst producing profiles on wood based components to specifications

Assessment criteria

The learner can:

- 2.1 extract data from specifications
- 2.2 select powered tools to meet specifications
- 2.3 carry out setting up operations to meet specifications
- 2.4 demonstrate **safe practices** when using powered tools to modify wood-based components
- 2.5 feed powered tools through wood-based components at correct speed to obtain the desired surface finish
- 2.6 produce profiles on wood-based materials
- 2.7 rectify problems as and when they occur
- 2.8 maintain a tidy work area, organise tools and equipment for effective working
- 2.9 comply with the relevant health and safety guidelines

Range**Safe practices**

Use of feed and dimensional control devices, position of hands and body in respect of proximity to cutting agent

Unit 214 Manufacturing wood-based components using powered tools

Supporting information

Unit range

Learner must use at least six powered tools, one from each machine group to produce all of the profiles listed in the range.

Guidance

AC 1.2: Tutors should be aware of timber technology with reference to the characteristics of wood based materials.

AC 1.15: Maintenance here refers to cleaning, lubrication of moving parts and cutting agent.

Unit 215

Manufacturing wood-based components using profiling machines

UAN:	M/503/2235
Level:	Level 2
Credit value:	7
GLH:	69
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to develop the knowledge, understanding and skills, required to set up and operate a range of profiling machines to produce profiles on wood-based components within the relevant sector of industry.

Learning outcome
The learner will: 1. Understand the process of setting up and operating profiling machines to produce a range of profiles on wood-based components
Assessment criteria
The learner can: 1.1 describe specifications used to produce profiles on wood-based components 1.2 describe characteristics of wood-based materials that affect selection 1.3 explain how to store wood-based materials 1.4 describe the function of profiling machines 1.5 identify types of profile cutters 1.6 describe the design of profile cutters 1.7 describe the setting up operations of profiling machines 1.8 describe component feed and dimensional control devices 1.9 describe how wood-based materials are supported throughout the machining process 1.10 list a range of profiles and identify the most suitable profiling machines for each 1.11 identify relevant health and safety guidelines 1.12 identify problems that can occur in the profiling process 1.13 describe how waste material is cleared and disposed of 1.14 outline maintenance schedules 1.15 describe how to maintain profile cutters.

Range

Specifications

Drawings, specifications, schedules, cutting lists, risk assessments, manufacturers' information, tolerances

Characteristics

Shakes, knots, waney edge, sap, cupping, bowing, springing, twisting, splitting, fungal staining, fungal and insect attack, moisture content, kilning defects, case hardening, timber conversion, working properties

Wood-based materials

Hardwood, softwood, manufactured board

Profiling machines

Vertical spindle moulding machine (straight work) routing machines, wood turning lathe, copy lathe

Profile cutters

Solid profile block, rebate block, wobble saw, flat plate groove saw, adjustable groove head, variable angle bevelling blocks, limited cutter projection tooling, router cutters, copy lathe fixed cutters, turning hand tools

Operations

Isolation, start up and shut down of machine, handling, fitting and adjustment of profile cutters, tooling and equipment, guards, LEV, use of feed and dimensional control devices

Feed and dimensional control devices

Push sticks pressure pads, power feed, sliding table, jigs, auxiliary tables, bed piece, shop made devices

Supported

Extension tables, support rollers, supporting personnel

Profiles

Grooving, rebating, bevelling, contour moulding, stopped profiles, turned profiles

Health and safety guidelines

Manufacturers' instructions, Health and Safety at Work Act (HASWA), Provision and Use of Work Equipment Regulations (PUWER), Manual Handling Operations Regulations, Control of Substances Hazardous to Health Regulations (COSHH), Control of Noise at Work Regulations, Electricity at Work Regulations, Personal Protective Equipment Regulations (PPE) and related Approved Codes of Practice (ACOP)

Problems

Machine malfunction, wood-based component reveals or develops undesirable characteristic during processing

Maintenance schedules

Visual inspection, routine maintenance, lubrication schedule, servicing schedule timetable

Learning outcome

The learner will:

2. Be able to operate the profiling machine safely whilst producing profiles on wood based components to specifications

Assessment criteria

The learner can:

- 2.1 extract data from specifications
- 2.2 select profiling machines to meet specifications
- 2.3 carry out setting up operations to meet specifications
- 2.4 demonstrate **safe practices** when hand feeding wood-based components through the profiling machines
- 2.5 feed wood-based components through profiling machines at controlled pace to obtain the desired surface finish
- 2.6 produce profiles on wood-based materials
- 2.7 rectify problems as and when they occur
- 2.8 maintain a tidy work area, organise tools and equipment for effective working
- 2.9 comply with the relevant health and safety guidelines.

Range**Safe practices**

Use of feed and dimensional control devices, position of hands and body in respect of proximity to profile cutter and moving component in the event of component 'kick-back'

Unit 215 Manufacturing wood-based components using profiling machines

Supporting information

Unit range

Learner must use as a minimum the vertical spindle moulding machine (straight work) and a routing machines to produce a range of profiles with the additional opportunity to use the wood turning lathe, copy lathe.

Guidance

AC 1.2: Tutors should be aware of timber technology with reference to the characteristics of wood based materials.

AC1.15: Maintenance here refers to cleaning, lubrication and storage, not sharpening.

Unit 216

Manufacturing wood-based components using sanding machines

UAN:	A/503/2237
Level:	Level 2
Credit value:	6
GLH:	54
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to develop the knowledge, understanding and skills, required to set up and operate a range of sanding machines to produce sanded wood-based components within the relevant sector of industry.

Learning outcome
The learner will:
1. Understand the process of setting up and operating sanding machines to produce a range of sanded profiles on wood-based components
Assessment criteria
The learner can:
1.1 describe specifications used to produce a range of sanded profiles on wood-based components
1.2 describe characteristics of wood-based materials that affect selection
1.3 explain how to store wood-based materials
1.4 describe the function of sanding machines
1.5 describe different types and grades of abrasives
1.6 describe the setting up operations of sanding machines
1.7 describe component feed and dimensional control devices
1.8 describe how wood-based materials are supported throughout the machining process
1.9 list a range of sanded profiles and identify the most suitable sanding machines for each
1.10 identify relevant health and safety guidelines
1.11 identify problems in the sanding process
1.12 describe how waste material is cleared and disposed of
1.13 outline maintenance schedules

Range

Specifications

Drawings, specifications, schedules, cutting lists, risk assessments, manufacturers' information, tolerances

Characteristics

Shakes, knots, waney edge, sap, cupping, bowing, springing, twisting, splitting, fungal staining, fungal and insect attack, moisture content, kilning defects, case hardening, timber conversion, working properties

Wood-based materials

Hardwood, softwood, manufactured board

Sanding machines

Linisher/disc/bobbin machine, overhead narrow belt sander, wide belt sander, drum sander

Abrasives

Types: belt, disc

Operations

Isolation, start up and shut down of machine, fixing and adjustment of abrasive, tooling and equipment, guards, LEV, use of feed and dimensional control devices

Feed and dimensional control devices

Power feed, sliding table, jigs, auxiliary tables, bed piece, shop made devices

Supported

Extension tables, support rollers, supporting personnel

Sanded profiles

Flat panel, narrow edge, concave, convex

Health and safety guidelines

Manufacturers' instructions, Health and Safety at Work Act (HSWA), Provision and Use of Work Equipment Regulations (PUWER), Manual Handling Operations Regulations, Control of Substances Hazardous to Health Regulations (COSHH), Control of Noise at Work Regulations, Electricity at Work Regulations, Personal Protective Equipment Regulations (PPE) and related Approved Codes of Practice (ACOP)

Problems

Machine malfunction, belt comes off, disc becomes detached, clogging, tearing and shredding of abrasive medium, burning, snaking, glazing, wood-based component reveals or develops undesirable characteristic during processing

Maintenance schedules

Visual inspection, routine maintenance, lubrication schedule, servicing schedule timetable

Learning outcome

The learner will:

2. Be able to operate the sanding machine safely whilst producing sanded profiles on wood based components to specifications

Assessment criteria

The learner can:

- 2.1 extract data from specifications
- 2.2 select sanding machines to meet specifications
- 2.3 carry out setting up operations to meet specifications
- 2.4 demonstrate **safe practices** when hand feeding wood-based components through the sanding machines
- 2.5 feed wood-based components through sanding machines at correct speed to obtain the desired surface finish
- 2.6 produce sanded profiles on wood-based materials
- 2.7 rectify problems as and when they occur
- 2.8 maintain a tidy work area, organise tools and equipment for effective working
- 2.9 comply with the relevant health and safety guidelines

Range**Safe practices**

Use of feed and dimensional control devices, position of hands and body in respect of proximity to sanding medium and in the event of component 'kick-back'

Unit 216 Manufacturing wood-based components using sanding machines

Supporting information

Unit range

Learner must use a disc sander, bobbin sander and belt sander and produce all of the sanded profiles listed in the range.

Guidance

AC 1.2: Tutors should be aware of timber technology with reference to the characteristics of wood based materials.

AC 1.15: Maintenance here refers to cleaning of abrasive medium.

Unit 217

Manufacturing wood-based components using sawing machines

UAN:	Y/503/2231
Level:	Level 2
Credit value:	6
GLH:	57
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to develop the knowledge, understanding and skills, required to set up and operate a range of sawing machines to produce sawn profiles on wood-based components within the relevant sector of industry.

Learning outcome
The learner will: 1. Understand the process of setting up and operating sawing machines to produce a range of sawn profiles on wood-based components
Assessment criteria
The learner can: 1.1 describe specifications used to produce sawn profiles on wood-based components 1.2 describe characteristics of wood-based materials that affect selection 1.3 explain how to store wood-based materials 1.4 describe the function of sawing machines 1.5 identify types of saw blades 1.6 describe the design of the saw blades 1.7 describe the setting up operations of sawing machines 1.8 describe component feed and dimensional control devices 1.9 describe how wood-based materials are supported throughout the machining process 1.10 list a range of sawn profiles and identify the most suitable sawing machines for each 1.11 identify relevant health and safety guidelines 1.12 identify problems that can occur in the sawing process 1.13 describe how waste material is cleared and disposed of 1.14 outline maintenance schedules 1.15 describe how to maintain saw blades.

Range

Specifications

Drawings, specifications, schedules, cutting lists, risk assessments, manufacturers' information, tolerances

Characteristics

Shakes, knots, waney edge, sap, cupping, bowing, springing, twisting, splitting, fungal staining, fungal and insect attack, moisture content, kilning defects, case hardening, timber conversion, working properties

Wood-based materials

Hardwood, softwood, manufactured board

Sawing machines

Narrow bandsaw, band resaw, circular rip saw, dimension saw, radial arm crosscut and trenching saw, wall saw

Saw blades

Bandsaw blade, circular saw blade

Operations

Isolation, start up and shut down of machine, handling, fitting and adjustment of saw blade, tooling and equipment, guards, LEV, use of feed and dimensional control devices

Feed and dimensional control devices

Push sticks, manual feed roller, power feed, sliding table, jigs, auxiliary tables and bed piece

Supported

Extension tables, support rollers, supporting personnel

Sawn profiles

Flat, curved, angled, deep, bevel, compound bevel, rip, cross cut, trench, rebate, groove

Health and safety guidelines

Manufacturers' instructions, Health and Safety at Work Act (HASWA), Provision and Use of Work Equipment Regulations (PUWER), Manual Handling Operations Regulations, Control of Substances Hazardous to Health Regulations (COSHH), Control of Noise at Work Regulations, Electricity at Work Regulations, Personal Protective Equipment Regulations (PPE) and related Approved Codes of Practice (ACOP)

Problems

Machine malfunction, wood-based component reveals or develops undesirable characteristic during processing

Maintenance schedules

Visual inspection, routine maintenance, lubrication schedule, servicing schedule timetable

Learning outcome
The learner will: 2. Be able to operate the sawing machine safely whilst producing sawn profiles on wood based components to specifications
Assessment criteria
The learner can: 2.1 extract data from specifications 2.2 select sawing machines to meet specifications 2.3 carry out setting up operations to meet specifications 2.4 demonstrate safe practices when hand feeding wood-based components through the sawing machines 2.5 feed wood-based components through sawing machines at controlled pace to obtain the desired surface finish 2.6 produce sawn profiles on wood-based materials 2.7 rectify problems as and when they occur 2.8 maintain a tidy work area, organise tools and equipment for effective working 2.9 comply with the relevant health and safety guidelines

Range
Safe practices Use of feed and dimensional control devices, position of hands and body in respect of proximity to saw blade and in the event of component 'kick- back'

Unit 218

Matching and cutting materials in upholstery and soft furnishings

UAN:	D/503/2232
Level:	Level 2
Credit value:	5
GLH:	40
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to provide the learner with the knowledge and practical skills to cut materials for use in upholstery and soft furnishings. The skills covered by this unit include: cutting materials, marking and sorting components: maintaining safe working practice.

Learning outcome
The learner will: 1. Understand how to prepare for matching and cutting materials use in upholstery and soft furnishings
Assessment criteria
The learner can: 1.1 describe the purpose of technical specifications 1.2 list terms used in technical specifications 1.3 identify commonly used materials 1.4 describe functions of different tools and equipment used in cutting material 1.5 outline handling, cutting and laying out characteristics of different types of materials 1.6 identify safe working practice when using sharp tools and items of equipment 1.7 describe why components are marked 1.8 state indicators that determine when templates and lays are beyond use 1.9 describe waste handling arrangements in the workplace.

Range
Terms Shape, cut, single-lay cutting component, multi-lay cutting component, marking tolerance (in the context of these standards a tolerance of +/- 3mm would be expected)
Materials Pattern/striped fabrics, plain pile, vinyl, stretch fabrics and flat weave fabrics, natural hide, velvet, finishing materials used in edgings, trimmings and linings and for covering of buttons
Tools and equipment Knives, shears, scalpels, powered knives, circular cutters, panel cutters, slitting machines
Safe working practice PPE, legal requirements, Approved Code Of Practice (ACOP)
Indicators Damaged edges, torn

Learning outcome
The learner will: 2. Understand how to match and cut materials for use in upholstery and soft furnishings
Assessment criteria
The learner can: 2.1 describe why it is necessary to maintain cut components within given tolerances 2.2 describe types of problems that may occur during marking out and cutting materials 2.3 describe processes for dealing with problems 2.4 outline why it is important to match material characteristics 2.5 describe processes of pattern matching 2.6 outline processes of integrating part rolls into lays 2.7 explain which markers to use for different types of materials 2.8 explain how to repair templates 2.9 describe consequences of lubricants and debris being left on work surfaces or tools and equipment 2.10 describe the importance of minimising waste 2.11 describe how to protect components from damage 2.12 outline what information should be recorded

Range
<p>Arrangements Disposal, recycling, storage</p> <p>Problems Material defects, colour/pattern mismatching, defects and faults in templates and lays, blunt or non-functional tools and equipment</p> <p>Processes Reject, replace, rectify, report, work around material defects</p> <p>Materials Pattern/striped fabrics, plain pile, vinyl, stretch fabrics and flat weave fabrics, natural hide, velvet, finishing materials used in edgings, trimmings and linings and for covering of buttons</p> <p>Consequences Damage material</p> <p>Information Times, dates, quantities, quality, customer, operator name, batch number</p>

Learning outcome
<p>The learner will:</p> <p>3. Be able to prepare, match and cut materials for use in upholstery and soft furnishings to specification</p>
Assessment criteria
<p>The learner can:</p> <p>3.1 maintain a tidy work area</p> <p>3.2 organise tools, equipment and materials</p> <p>3.3 plan marking out and cutting of materials to minimise waste</p> <p>3.4 mark out and cut materials</p> <p>3.5 carry out pattern matching</p> <p>3.6 align templates and lays on material</p> <p>3.7 cut components according to technical specifications</p> <p>3.8 select appropriate protection from damage for materials while working.</p>

Range
<p>Materials Pattern/striped fabrics, plain pile, vinyl, stretch fabrics and flat weave fabrics, natural hide, velvet, finishing materials used in edgings, trimmings and linings and for covering of buttons</p>

Unit 219

Material technology in furnishings

UAN:	J/503/2225
Level:	Level 2
Credit value:	7
GLH:	50
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to research material technologies within furnishings. The skills covered by this unit include: researching manufacturing methods, structure and the influence man-made, synthetic and natural mix has on the functionality of materials. Also includes the evaluation of materials, fillings, suspensions, sundries and the creation of specifications.

Learning outcome
The learner will: 1. Understand material technology within furnishings
Assessment criteria
The learner can: 1.1 explain the importance of product knowledge 1.2 describe classifications of fibres 1.3 describe different uses of materials 1.4 describe processes to produce materials 1.5 describe methods of improving performance of materials 1.6 describe suspension systems 1.7 identify uses of sundries 1.8 explain the importance of compliance with furniture safety standards 1.9 describe safe working practice .

Range
<p>Product knowledge Fabrics, fillings, suspension systems, current designs, product trends, shapes, styles</p> <p>Fibres Man-made, synthetic, natural</p> <p>Materials Fabrics, fillings, suspension systems, sundries</p> <p>Processes Extruding, twist, warp, weft, selvedge, curing, carding, weaving, tension, fabrication, catalyst, washing, wire bending, interlinking, pocket, encased</p> <p>Methods Percentage yarn mix (man-made: natural), 'Z' and 'S' twist, fire retardancy, repellent, gauge, ratio</p> <p>Suspension systems Zigzag, 'fish mouth', sprung unit, hour glass, single cone, double cone, elasticated webbing, rubber webbing, firm edge</p> <p>Sundries Thread, zips, press studs, velcro, buttons, lining cloth, tacking strip, studs, staples</p> <p>Safety standards Furniture and furnishings (fire safety) regulations, British Standards, CE</p> <p>Safe working practice Manufacturers' instructions, legal requirements (Control Of Substances Hazardous to Health COSHH, Provision and Use of Work Equipment Regulations PUWER, Health And Safety At Work Act HASAWA, Personal Protective Equipment PPE)</p>

Learning outcome
The learner will:
2. Understand how material technology affects product performance
Assessment criteria
The learner can:
2.1 explain factors affecting material choice
2.2 describe the importance of researching materials to support design options
2.3 identify commercial sizes of materials
2.4 identify current British and European performance standards
2.5 describe faults that may be present in materials
2.6 explain how to record data to support evaluation decisions
2.7 explain information that should be included in specifications .

Range**Factors**

Cost, durability, firmness, softness, complex shape, fabricated component, stretch, non-stretch, application, tools, training

Faults

Poor quality, natural defects, manufacturing defects

Commercial sizes

Fabric width, hide size, spring gauge, fabricated, non-fabricated, loft, metrical, imperial

Standards

Research establishments, durability, performance of fabrics and foam, dimensional standards

Evaluation

Performance, function, ease of use

Specifications

Units of measurement, conventions, terms used, formats, material, colour

Procedure

Formal, informal, available resources, people involved

UAN:	F/503/2174
Level:	Level 2
Credit value:	6
GLH:	50
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	This unit requires learners to identify the characteristics and uses of solid wood and wood based products. The unit looks at the structure, working properties, appearance, stability, colour, grain patterns, drying method and storage of different wood types. Learners will identify sources of solid wood and investigate potential implications of selecting materials for different types of wood.

Learning outcome
The learner will:
1. Understand the material technology of solid wood
Assessment criteria
The learner can:
1.1 identify characteristics of solid timber
1.2 describe types of solid timber used in the furniture industry
1.3 describe reasons for using for different types of solid timber
1.4 describe potential defects in solid timber
1.5 describe problems that may occur when working with hardwood
1.6 describe storage requirements for solid timber
1.7 describe solid wood sustainability
1.8 identify commercial sizes of solid timber
1.9 describe sources of commercially sized solid timber
1.10 explain how different surface finishes react with solid timber
1.11 describe safe working practice

Range**Characteristics**

Structure, working properties, appearance, stability, colour, grain patterns, kiln dried, air dried, staining, , finishing, limitations

Solid timber

Softwood: douglas fur, pine, hemlock

Hardwood: beech, ash, oak, mahogany, birch, maple, sycamore, teak

Reasons

Exterior use, interior use, compression strength, tensile strength, durability, insect resistance

Defects

Cupping, twisting, bowing, shakes, dead knots, live knots, cracks, splits, grain defects, case hardening, insect infestation

Problems

Corrosion of fittings, staining to fittings, damage to tools, skin irritation, respiratory issues

Storage requirements

Clean, dry, well ventilated, kept flat, separated, covered

Sustainability

Source, ethical, recycling, waste disposal

Commercial sizes

Millimetres, metres, cubic metres

Sources

Specialist suppliers, abroad, home grown materials, sustainable

Surface finishes

Stains, lacquers, varnishes, oils, paints, exterior wood preservatives, natural, pressure impregnated

Safe working practice

Manufacturers' instructions, legal requirements (Control Of Substances Hazardous to Health COSHH, Provision and Use of Work Equipment Regulations PUWER, Health And Safety At Work Act HASAWA), Personal Protective Equipment PPE)

Learning outcome
The learner will: 2. Understand the material technology of timber based products
Assessment criteria
The learner can: 2.1 identify characteristics of timber based products 2.2 describe types of timber based products used in the furniture industry 2.3 describe reasons for using for different types of timber based products 2.4 describe potential defects in timber based products 2.5 describe problems that may occur when working with timber based products 2.6 describe storage requirements for timber based products 2.7 describe wood based product sustainability 2.8 identify commercial sizes of timber based products 2.9 explain how different surface finishes react with timber based products 2.10 describe manufacturing techniques of timber based products

Range
Characteristics Working properties, appearance, stability, colour, grain patterns, structure, finishing, limitations
Timber based products Plywood, chipboard, MDF
Reasons Interior use, durability, insect resistance, heat resistance, water resistance, stability, ease of application, cost, available
Defects Pressing faults, veneering faults
Problems Damage to tools, skin irritation, respiratory issues, carcinogenic, holding properties of fixings
Storage requirements Clean, dry, well ventilation, kept flat, separated, indoors
Commercial sizes Millimetres, metres, sheet sizes
Surface finishes Stains, lacquers, varnishes, oils, paints, natural

UAN:	R/503/2230
Level:	Level 2
Credit value:	8
GLH:	75
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to prepare and produce quilting for mattresses using machines. The skills covered by this unit include: preparing the work area and equipment, selecting materials and using machinery to carry out quilting operations.

Learning outcome
The learner will: 1. Know how to prepare mattress quilting equipment
Assessment criteria
The learner can: 1.1 describe the purpose of technical specifications 1.2 list terms used in technical specifications 1.3 describe handling characteristics of materials 1.4 describe purposes of materials 1.5 explain how to protect mattresses from damage during quilting preparation 1.6 describe how to prepare for quilting 1.7 describe the function of equipment used in quilting process 1.8 describe faults that may occur during quilting preparation 1.9 identify safe working practice in mattress preparation 1.10 describe safety functions on quilting machines

Range
<p>Terms Material, quilting dimensions, pattern, type, weight and size of filling, layer sequence, quality to be achieved, tolerance, visual appearance</p> <p>Materials Fabric, foam, tick, backing, backing thread, cotton, felt, wool, coir pad</p> <p>Prepare Machine start-up, quality check</p> <p>Function One and two headed</p> <p>Faults Tools and equipment faults, quality, application, positioning</p> <p>Safe working practice PPE, legal requirements, Approved Code of Practice (ACOP), Health and Safety At Work Act (HASAWA), Control of Substances Hazardous to Health (COSHH), Risk Assessments</p> <p>Safety functions Interlocking guards, emergency stop, foot guard</p>

Learning outcome
The learner will: 2. Know how to quilt mattresses
Assessment criteria
The learner can: 2.1 describe the quilting process 2.2 state when to use different methods for quilting mattresses 2.3 explain how to monitor the quilting operation 2.4 describe the importance of minimising waste 2.5 describe faults that may be encountered during quilting 2.6 explain processes for dealing with faults 2.7 describe quality checking measures

Range
<p>Quilting process Operation of equipment, machine shut-down, sequence of processing</p> <p>Methods Panels, borders, rolls, deep quilting</p> <p>Monitor Touch, feel, visual</p> <p>Faults Material defects, application, positioning, colour/pattern mismatching, non functional equipment, tensioning, shape and size, stitching errors, re-threading, re-needling</p> <p>Processes Reject, replace, rectify, report, work around material defects</p> <p>Quality checking Visual, measurement</p>

Learning outcome
The learner will: 3. Be able to quilt mattresses
Assessment criteria
The learner can: 3.1 maintain a tidy work area 3.2 organise tools, equipment and materials 3.3 select appropriate protection for items while working 3.4 operate quilting machines 3.5 carry out quality checks

Range
<p>Furniture and components Wall unit, base unit, door, drawer</p> <p>Fixings and fittings Blocks, brackets, runners, hinges, screwing, pinning, gluing</p>

UAN:	K/503/2217
Level:	Level 2
Credit value:	13
GLH:	130
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to prepare and produce items of modern upholstery. The skills covered by this unit include: preparing the frame, application of suspensions and filling materials, positioning and securing upholstery covers, positioning and securing trimmings and finishings, fastening bottom cloth firmly and accurately.

Learning outcome
The learner will: 1. Understand how to prepare items of modern upholstery
Assessment criteria
The learner can: 1.1 describe the purpose of technical specifications 1.2 list terms used in technical specifications 1.3 describe functions of tools and equipment used in modern upholstery 1.4 state indicators that determine equipment fault 1.5 explain how to overcome equipment faults 1.6 describe purposes of support materials 1.7 outline handling characteristics of support materials 1.8 state indicators that determine support material faults 1.9 describe how to protect items from damage 1.10 identify safe working practice when using tools and equipment in modern upholstery.

Range
<p>Terms Material type, quality level, tolerance, visual appearance</p> <p>Tools and equipment Hammers, staple gun, frame gun, spring gun, staple remover, knives, shears, scalpels, stretching device</p> <p>Indicators Non-functional</p> <p>Purposes Structure, shape, comfort</p> <p>Support materials Suspensions, springs, elasticated webbing, support materials (webbing, foam, wadding, rubberised hair, insulation pad), edgings</p> <p>Support material faults Damage, incomplete</p> <p>Items Modern furniture, contract furniture, office furniture</p> <p>Safe working practice</p>

PPE, legal requirements, Approved Code of Practice (ACOP)

Learning outcome
<p>The learner will:</p> <p>2. Understand how to fit material and finish items of modern upholstery</p>
Assessment criteria
<p>The learner can:</p> <p>2.1 describe handling characteristics of upholstery covers</p> <p>2.2 describe different methods of securing upholstery covers</p> <p>2.3 describe types of problems that may occur during fitting upholstery covers to items</p> <p>2.4 describe the importance of minimising waste</p> <p>2.5 explain the purpose of using a bottom cloth</p> <p>2.6 list fittings used in modern upholstery</p> <p>2.7 describe handling characteristics of trimmings and finishings</p> <p>2.8 explain methods of securing trimmings and finishings</p> <p>2.9 describe problems that may occur during fitting of trimmings and finishings</p> <p>2.10 describe processes for dealing with problems</p> <p>2.11 describe quality checks for completed items</p>

Range
<p>Upholstery covers Patterned/striped, plain pile, vinyl, stretch fabrics, flat weave fabrics, natural hide, velvet</p> <p>Methods Stapling, temporary tacks, tacks, centring, 'v'-cut, 'Y'-cut, measuring, hand stitching, adhesives</p> <p>Fittings Castors, bun feet, legs, glides, mechanical actions</p> <p>Problems Material defects, colour/pattern mismatching, non functional equipment, tensioning, shape and size, stitching errors</p> <p>Trimmings and finishings Braide, piping, fringe, polished wood borders</p> <p>Processes Reject, replace, rectify, report, work around material defects</p> <p>Quality checks Visual, measurement</p>

Learning outcome
<p>The learner will:</p> <p>3. Be able to produce items of modern upholstery</p>
Assessment criteria
<p>The learner can:</p> <p>3.1 maintain a tidy work area</p> <p>3.2 organise tools, equipment and materials</p> <p>3.3 check materials meet technical specification</p> <p>3.4 select appropriate protection for the item while working</p> <p>3.5 produce items of modern upholstery</p> <p>3.6 demonstrate quality checks.</p>

UAN:	D/503/2229
Level:	Level 2
Credit value:	6
GLH:	60
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to prepare and produce mattresses. The skills covered by this unit include: preparing the mattress assembly, application of suspensions and filling materials to form the shape, positioning and securing top covers, tufting/finishing, tape edging.

Learning outcome
The learner will: 1. Know how to prepare mattresses for assembly
Assessment criteria
The learner can: 1.1 describe the purpose of technical specifications 1.2 list terms used in technical specifications 1.3 describe handling characteristics of support materials 1.4 describe purposes of different support materials 1.5 describe methods used in mattress preparation 1.6 describe functions of different tools used in mattress preparation 1.7 describe faults that may occur during mattress preparation 1.8 identify safe working practice during mattress preparation.

Range
Terms Material to be used, quality, tolerance, dimensions, visual appearance, filling type, item type
Support materials Foam, springs, foam encapsulated suspension units, fillings, panels, pads, single fillings, multi fillings/layered fillings
Methods Stapling, hog-ringing, gluing, side blind, top stitching, roll stitching

<p>Function Hog ring gun, glue gun, staple gun</p> <p>Faults Tools and equipment, quality, application, positioning</p> <p>Safe working practice PPE, legal requirements, Approved Code of Practice (ACOP), Health and Safety At Work Act (HASAWA), Control of Substances Hazardous to Health (COSHH), Risk Assessments</p>
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<p>Learning outcome</p> <p>The learner will:</p> <p>2. Know how to assemble mattresses</p>
<p>Assessment criteria</p> <p>The learner can:</p> <p>2.1 describe handling characteristics of finishing materials</p> <p>2.2 describe functions of different tools used in finishing mattresses</p> <p>2.3 describe methods for assembling mattresses</p> <p>2.4 describe faults that may occur during assembly process</p> <p>2.5 describe the importance of minimising waste</p> <p>2.6 describe processes for dealing with problems</p> <p>2.7 describe quality checking measures</p>

<p>Range</p> <p>Finishing materials Top fabric, twine, pre-formed tufts, thread, tape edging, filler cord</p> <p>Function Tufting machine, tape edging</p> <p>Methods Mattress positioning, vertical application, alignment, tape edging, tufting</p> <p>Faults Material defects, colour/pattern mismatching, non functional equipment, tensioning, shape, size, stitching errors, broken thread, broken needle</p> <p>Processes Reject, replace, rectify, report, work around material defects</p> <p>Quality checking measures Visual, measurement</p>

Learning outcome
The learner will: 3. Be able to produce mattresses
Assessment criteria
The learner can: 3.1 maintain a tidy work area 3.2 organise tools, equipment and materials 3.3 check materials meet technical specification 3.4 select appropriate protection for the item while working 3.5 produce mattresses 3.6 demonstrate tape edging 3.7 demonstrate tufting 3.8 demonstrate quality checks.

Unit 224

Planning for career pathways in furniture and furnishing industries

UAN:	R/503/2213
Level:	Level 2
Credit value:	4
GLH:	25
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	This unit will introduce learners to the concept of planning for own career development and setting goals to help realise plans. Learners will investigate the roles in the Furniture and Furnishing industries and research specific requirements. Learners are required to compile documents to support career plans including Curriculum Vitae and personal statements. The unit is designed to demonstrate to learners that there are many optional career pathways including becoming highly skilled in own craft or exploring

Learning outcome
The learner will: 1. Know how to plan for careers in furniture and furnishing industries
Assessment criteria
The learner can: 1.1 identify sources to support career planning 1.2 describe elements of career planning 1.3 describe specific requirements for career choices 1.4 describe documents to support career development 1.5 explain the principles of goal setting 1.6 describe how to set goals 1.7 describe careers in furniture and furnishing industries 1.8 explain opportunities for progression within careers 1.9 identify types of employment

<p>Range</p> <p>Sources People, organisations, internet, publication, professional bodies/organisations, educational support and guidance, independent research, mentors, job descriptions, role models, job centres</p> <p>Elements Goal setting, qualifications,, Curriculum Vitae (CV), person specification, aspirations</p> <p>Specific requirements Qualifications, experience</p> <p>Documents Curriculum Vitae (CV), personal statement, portfolio, cover letter, references, business plans</p> <p>Principles SMART targets</p> <p>Goals Short, medium, long</p> <p>Careers Veneerer, Upholsterer, Soft Furnisher, Furniture Maker, Fitted Furniture Installer, Furniture Restorer, Designer, Wood Machinist, Teacher</p> <p>Opportunities for progression Supervisor, manager, highly skilled in craft, sideways moves, teacher</p> <p>Types Own business, employed, small company, large company, casual labour, contract work, private, bespoke, batch production, mass production</p>
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Learning outcome
The learner will: 2. Be able to produce plans for careers in furniture and furnishing industries
Assessment criteria
The learner can: 2.1 research requirements for careers in furniture and furnishing industries 2.2 set personal goals for careers in furniture and furnishing industries 2.3 produce documents to support career development.

Range
Goals Short, medium, long
Documents Curriculum Vitae (CV), personal statement, portfolio, cover letter, references

Unit 224 **Planning for career pathways in furniture and furnishing industries**

Supporting information

Guidance

Professional organisations that may support learners to investigate career pathways:

- Society of Design Craftsmen (SoDC)
- Furniture Designer Makers Association (FDMA)
- The Furniture Maker Company (WCFM)
- British Antique Furniture Restorer Association (BAFRA)
- British Contract Furniture Association (BCFA)
- British Furniture Makers (BFM)
- Association of Master Upholsterers (AMV)
- Worshipful Company of Upholsterers (WCU)
- British Woodwork Federation (BWF)
- Crafts Council
- Proskills (Sector Skills Council)
- Educational establishments

Unit 225

Professional responsibilities in furniture and furnishing making environments

UAN:	H/503/2216
Level:	Level 2
Credit value:	4
GLH:	30
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.

Aim:	This unit introduces learners to customer service and communication skills giving them the tools to build positive relationships with clients and colleagues. This unit also explores the importance of teamwork and supporting colleagues in a furniture and furnishing making environment. The unit explores workshop etiquette, requiring candidates to understand the importance of their own role and meeting timescales within a process and the cost implications associated with this. This unit is intended to equip learners for working in a commercial environment.
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Learning outcome
The learner will: 1. Understand the importance of professional standards in a furniture and furnishing making environment
Assessment criteria
The learner can: 1.1 outline factors which contribute to good working relationships 1.2 describe how colleagues can assist one another 1.3 state situations which would require assistance from a colleague 1.4 explain the importance of teamwork 1.5 describe how to communicate effectively 1.6 explain the importance of effective communication 1.7 describe common causes of client complaints.

<p>Range</p> <p>Factors Positive behaviour, quick and effective response to feedback, patience, sense of humour, pleasant manner, self organisation, eye contact, respect for self and others and a willingness to co-operate, learn and work as a team</p> <p>How Advice, assistance, support, constructive feedback, sharing experience and ideas</p> <p>Situations Situations beyond own level of knowledge and responsibility, aggressive and angry clients, accidents, injuries and emergencies, specific needs</p> <p>Importance of teamwork Portray organisation/business in a positive way, effective and efficient delivery of services for customers and staff, safety, staff morale, encourages loyalty, achieving targets</p> <p>Communicate effectively Body language, eye contact, listening, clear response. remembering names, consideration for languages and cultures, being polite, method of communication to suit client need, visual communication</p> <p>Importance of effective communication Building relationships, gain respect from others, improved perception, preparing for employment, achieving desired result</p> <p>Causes Poor customer service, not meeting the technical specification, delay to work being produced, poor communication, poor quality of work</p>
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<p>Learning outcome</p> <p>The learner will:</p> <p>2. Understand professional working practices in furniture and furnishing making environments</p>
<p>Assessment criteria</p> <p>The learner can:</p> <p>2.1 describe safe working practice</p> <p>2.2 describe how to minimise waste</p> <p>2.3 describe the importance of keeping furniture and furnishing making environments tidy</p> <p>2.4 describe quality checking measures</p> <p>2.5 explain the importance of meeting timescales</p> <p>2.6 identify who to inform of delay to timescales</p> <p>2.7 identify key paperwork to complete in furniture and furnishing making environments</p> <p>2.8 describe cost implications in furniture and furnishing making environments.</p>

Range**Safe working practice**

PPE, legal requirements, Approved Code of Practice (ACOP), Health and Safety At Work Act (HASAWA), Control of Substances Hazardous to Health (COSHH), Risk Assessments

Quality checking measures

Square, dimensions, visual, touch, ergonomics, functionality, against technical specification requirements, finish

Importance

Delay to overall process, impact production line, delay to end product, financial reward, financial penalties, client relations

Who to inform

Supervisor, next part of process, team leader

Paperwork

Job recording sheet, equipment inventory, cutting list
timesheet

Cost implications

Direct, indirect

UAN:	M/503/2218
Level:	Level 2
Credit value:	6
GLH:	58
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to produce simple and complex seamed components for use in furnishings, by hand and through the use of machinery. The skills covered by this unit include: preparing components and materials; stitching seams to specification; preparing materials before and after stitching to achieve specification and maintaining your own and others' safety

Learning outcome
The learner will: 1. Understand how to identify and prepare equipment for use in furnishings
Assessment criteria
The learner can: 1.1 describe the purpose of technical specifications 1.2 list terms used in technical specifications 1.3 describe the consequences of lubricants or debris getting onto materials 1.4 identify safe working practice when using sewing machines 1.5 describe the functions of different types of sewing equipment used in furnishings 1.6 state the indicators that determine equipment fault 1.7 explain how to resolve equipment faults 1.8 explain the importance of carrying out test sews.

Range
<p>Terms Straight, shaped, complex, symmetrical, asymmetrical, pleating, ruching, quilting, fastenings, Velcro, cords and piping, seam allowance , stitch density and structure</p> <p>Safe working practice PPE, legal requirements, Approved Code of Practice (ACOP)</p> <p>Functions Foot, needle, lockstitch machine, long arm machine, twin needle machine, overlock machine, multi needle machine, thread spools, pins, tailor's chalk, upholstery needle, upholstery skewer, pressing equipment</p> <p>Indicators Loose threads, gathering, thread breakage, tensioning, needle breakage, thread change, empty spool, stitch density</p>

Learning outcome
<p>The learner will:</p> <ol style="list-style-type: none"> 2. Understand how to produce seamed components, for use in furnishings
Assessment criteria
<p>The learner can:</p> <ol style="list-style-type: none"> 2.1 outline handling characteristics of materials 2.2 describe problems that may occur during the sewing of materials 2.3 outline processes for dealing with problems 2.4 describe stitching methods used in furnishing 2.5 describe methods of completing seams 2.6 describe the importance of sewing in sequence 2.7 describe the importance of minimising waste 2.8 describe how to protect components from damage 2.9 outline information to be recorded when producing seamed components 2.10 describe why recording information is important.

Range
<p>Materials Patterned/striped, plain pile, vinyl, stretch fabrics, flat weave fabrics, natural hide, velvet</p> <p>Problems Material defects, colour/pattern mismatching, defects and faults in templates and lays, non functional equipment, tensioning, shape and size, stitching errors</p> <p>Processes Reject, replace, rectify, report, work around material defects</p> <p>Stitching Hand, machine</p> <p>Methods Trimming, notching, basting stitches</p> <p>Information Times, dates, quantities, quality, customer, operator name, batch number</p>

Learning outcome
The learner will: 3. Be able to produce seamed components, for use in furnishings
Assessment criteria
The learner can: 3.1 maintain a tidy work area 3.2 organise tools, equipment and materials 3.3 set up sewing machines 3.4 check materials match technical specifications 3.5 complete test stitching 3.6 sew and press components 3.7 complete seam allowance and density to technical specification 3.8 select appropriate protection for the material from damage.

Range
<p>Materials Patterned/striped, plain pile, vinyl, stretch fabrics, flat weave fabrics, natural hide, velvet</p>

UAN:	R/503/2227
Level:	Level 2
Credit value:	7
GLH:	60
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to produce simple components for use in soft furnishings, by hand and through the use of machinery. The skills covered by this unit include: component measuring and recording, marking and cutting materials; stitching seams to specification; fitting and fixing in location; preparing materials before and after stitching to achieve specification and maintaining safety

Learning outcome
The learner will: 1. Understand how to prepare components, for use in soft furnishings
Assessment criteria
The learner can: 1.1 describe the purpose of technical specifications 1.2 list terms used in technical specifications 1.3 outline data required for component dimensions 1.4 describe processes for cutting components for sewing 1.5 describe functions of equipment used in soft furnishings 1.6 state the indicators that determine equipment fault 1.7 explain how to resolve equipment faults 1.8 describe consequences of lubricants or debris getting onto materials 1.9 identify safe working practice when using sewing machines 1.10 explain the importance of compliance with furniture standards

Range
Terms Cutting tolerance (+/- 5mm), straight, shaped, complex, symmetrical, asymmetrical, pleating, ruching, cords, piping
Data Seam allowance, measurement, dimension, format, markers, aligning, pattern repeat, pile direction, template
Components Loose cover, balloon lined lampshade, lined curtains, cushions, table treatments, bed treatments
Functions Sewing machines, cloth tape measure, tailors chalk, pins, needle, thread, pressing equipment
Indicators Loose threads, gathering, thread breakage, tensioning, needle breakage, thread change, empty spool, stitch density
Safe working practice PPE, legal requirements, Approved Code of Practice (ACOP)
Standards Furniture and furnishings (fire safety) regulations, British Standard, CE

Learning outcome
The learner will: 2. Understand how to produce components, for use in soft furnishings
Assessment criteria
The learner can: 2.1 outline handling characteristics of materials 2.2 describe processes for joining components 2.3 describe problems that may occur during sewing of materials 2.4 outline processes for dealing with problems 2.5 describe stitching methods used in soft furnishings 2.6 describe methods of completing seams 2.7 describe the importance of sewing in sequence 2.8 describe different finishing methods 2.9 describe the importance of minimising waste 2.10 outline information to be recorded when producing soft furnishings

Range
<p>Materials Patterned/striped, plain pile, vinyl, stretch fabrics, flat weave fabrics, velvet, lining cloth</p> <p>Joining Velcro, zips, button holes, ties, press studs, orientation</p> <p>Problems Material defects, colour/pattern mismatching, defects and faults in templates and lays, non functional equipment, tensioning, shape and size, stitching errors, seam slippage</p> <p>Processes Reject, replace, rectify, report, work around material defects</p> <p>Stitching Hand, machine</p> <p>Methods Trimming, notching, basting stitches, slip stitch, ladder stitch, hemming stitch, flat, french, flat fell</p> <p>Finishing methods Piping, braids, fringes, cords, flange cords, pleating, gathering, appliqué, tucks, smocking and skirts</p> <p>Information Times, dates, quantities, quality, customer, operator name, batch number</p>

Learning outcome
<p>The learner will:</p> <p>3. Be able to prepare and produce components, for use in soft furnishings</p>
Assessment criteria
<p>The learner can:</p> <p>3.1 maintain a tidy work area</p> <p>3.2 organise tools, equipment and materials</p> <p>3.3 record measurements of components</p> <p>3.4 prepare components for use in soft furnishings</p> <p>3.5 assemble components for use in soft furnishings</p> <p>3.6 select protection from damage for materials</p>

Range
<p>Components Loose cover, lamp shade, curtains</p> <p>Materials Patterned/striped, velvet, flat weave</p>

Unit 228

Spray finishing in furniture making

UAN:	D/503/2215
Level:	Level 2
Credit value:	20
GLH:	180
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to provide the learner with the knowledge and practical skills to spray finish furniture. This unit will cover preparing work pieces and materials, taking into account surface faults and any application faults with materials. The unit will also cover Health & Safety legislation using technical specifications and the disposing of waste materials.

Learning outcome
The learner will: 1. Know the process of preparing to spray finish furniture
Assessment criteria
The learner can: 1.1 describe the purpose of technical specifications 1.2 list terms used in technical specification 1.3 describe functions of tools and equipment used in spray finishing 1.4 describe functions of materials used in spray finishing 1.5 describe different grades of abrasives 1.6 explain uses of fillers and stoppers 1.7 explain different preparations for surfaces 1.8 describe surface faults in timbers 1.9 describe safe working practice .

Range
<p>Terms Viscosity, colour, formulation, natural, forced, precat, AC, PU, curing, data sheets</p> <p>Tools and equipment Spray guns, spray booth, drying ovens, brushes, rags/cloths, pads, sponges, tak rags, scrapers, sanding blocks, filler knives, masking tape</p> <p>Materials Stains, sealers, primers, shellac, oil, water or mixed solvents, de-greasing agents, cleaning solvents, waxes, stoppers, burnishing creams, bleach</p> <p>Abrasives Sandpapers, steel wool, sanding blocks, pads</p> <p>Surfaces Solid wood, veneered, flat panels, curved work, sub-assembly or assembly, wood composite</p> <p>Surface faults Scratches, chips, dents, cracks, blisters, blemishes</p> <p>Safe working practice Manufacturers' instructions, legal requirements (Control Of Substances Hazardous to Health COSHH, Provision and Use of Work Equipment Regulations PUWER, Health And Safety At Work Act HASAWA), Personal Protective Equipment PPE)</p>

Learning outcome
The learner will:
2. Know the process of spray finishing furniture
Assessment criteria
The learner can:
2.1 describe application faults
2.2 describe how to deal with faults that occur
2.3 describe quality checking measures
2.4 describe the finishing process of furniture
2.5 identify different drying times
2.6 explain the importance of safely disposing waste

Range
<p>Application faults Blooming, blotching, runs, streaks, orange peel, fish eye, poor wetting, uneven application, Nibs, holes</p> <p>Faults Surface, application</p> <p>Finishing process Preparation, staining, sealing, final coating</p>

Learning outcome
<p>The learner will:</p> <p>3. Be able to spray finish furniture</p>
Assessment criteria
<p>The learner can:</p> <p>3.1 maintain a tidy work area</p> <p>3.2 organise tools and equipment for effective working</p> <p>3.3 carry out spray finishing to components</p> <p>3.4 demonstrate quality checking methods.</p>

Range
<p>Components Flat panels, curved work, sub-assembly or assembly</p>

UAN:	T/503/2222
Level:	Level 2
Credit value:	3
GLH:	12
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to provide the learner with an understanding of environmental impacts of the timber trade and endangered timbers. The unit required learners to understand waste management techniques and cost implications.

Learning outcome
The learner will:
1. Understand how the timber trade impacts on the environment
Assessment criteria
The learner can:
1.1 explain the term sustainability
1.2 describe environmental impacts of the timber trade
1.3 describe man-made causes of deforestation
1.4 identify endangered timber species
1.5 describe roles of organisations promoting sustainable sourced timber
1.6 describe how to research sources of timber and timber based products
1.7 explain reasons to provide products made from sustainable sourced materials.

Range
Impacts Environmental degradation, carbon release & capture, deforestation, carbon footprint
Causes Food production, population pressure, high value timbers, illegal logging
Endangered Convention on International Trade in Endangered Species

<p>Organisation Forestry Stewardship Council, Programme for the Endorsement Forest Certification Scheme, pressure groups</p> <p>Sources Plantation grown, naturally grown, exotic timbers, domestically grown</p> <p>Reasons Market demand, government legislation</p>

<p>Learning outcome</p> <p>The learner will:</p> <p>2. Understand waste management within the timber trade</p>
<p>Assessment criteria</p> <p>The learner can:</p> <p>2.1 describe waste in processing trees to finished products</p> <p>2.2 describe waste within workshops</p> <p>2.3 explain ways of minimising waste within the manufacturing process</p> <p>2.4 explain the term recycling</p> <p>2.5 describe ways which materials can be recycled</p> <p>2.6 identify cost implications of not recycling</p> <p>2.7 explain how to safely dispose of waste</p>

<p>Range</p> <p>Waste Wood chippings, saw dust, off cuts, timber based products, adhesives, finishes</p> <p>Minimising Timber sizes, nesting, production process, recycling</p> <p>Materials Timber, timber based products, finishes, adhesives</p> <p>Safely dispose Burning, pelleting, brickettes, COSHH</p>
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UAN:	K/503/2220
Level:	Level 2
Credit value:	7
GLH:	40
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of the unit to provide the learner with knowledge and practical skills to both produce and read a range of projections used in technical drawings and to transfer these skills to the a workshop environment. Skills covered in this unit include developing drawing skills, drawing orthographic, oblique and isometric drawings using a range of drawing equipment. Learners will produce cutting lists from technical drawings. Learners will carry out workshop geometry. This unit will require learners to

Learning outcome
The learner will:
1. Know how to create technical drawings and practice workshop geometry
Assessment criteria
The learner can:
1.1 identify equipment used in technical drawings
1.2 identify measurements used in technical drawings
1.3 describe the use of scales in technical drawing
1.4 describe projections used in technical drawing
1.5 describe lines types for technical drawing
1.6 describe the purpose of rods
1.7 describe workshop geometry techniques
1.8 identify drawing conventions for abbreviations
1.9 explain how to prepare a cutting list using technical drawings

Range
<p>Equipment Drawing boards, t squares, pens, pencils, compass, set squares, protractor, rubber, paper, computers, French curve, rulers, scale ruler</p> <p>Measurements Millimetres, metres</p> <p>Scales 1:1, 1:2, 1:5</p> <p>Projections Orthographic, isometric, oblique, perspective</p> <p>Lines Construction, dimension, hidden detail, section lines, hatching, centre line</p> <p>Techniques Ellipse, drawing and bisecting shapes, enlarging, tangent, templates</p> <p>Conventions Current European guidelines</p> <p>Cutting list Length, width & thickness and for soft furnishings, foam size, top cover</p>

Learning outcome
The learner will: 2. Be able create technical drawings and practice workshop geometry
Assessment criteria
The learner can: 2.1 create technical drawings 2.2 use scales in technical drawings 2.3 use projections in technical drawings 2.4 use lines in technical drawings 2.5 set out rods 2.6 carry out workshop geometry techniques 2.7 use drawing conventions for abbreviations 2.8 prepare cutting lists from technical drawings

Range
Projections Orthographic, isometric, oblique, perspective
Techniques Ellipse, drawing and bisecting shapes, enlarging, tangent, templates
Conventions Current European guidelines

UAN:	L/503/2209
Level:	Level 2
Credit value:	22
GLH:	200
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to prepare and produce items of traditional upholstery. The skills covered by this unit include: preparing the frame, application of suspensions and filling materials to form the shape, positioning and securing upholstery covers, hand cutting skills, positioning and securing trimmings and finishings, fastening bottom cloth firmly and accurately and expands skills in relation to deep buttoning and building

Learning outcome
The learner will:
1. Understand how to prepare upholstery foundations
Assessment criteria
The learner can:
1.1 describe the purpose of technical specifications
1.2 list terms used in technical specifications
1.3 describe what the furnishing regulations require for traditional support materials
1.4 explain the importance of checking the condition of the frame
1.5 explain purposes of different support materials
1.6 describe processes used to construct suspension systems
1.7 describe different methods of securing traditional support materials
1.8 outline handling characteristics of support material
1.9 describe the importance of constructing foundations for deep buttoning
1.10 identify indicators of faults when applying support materials
1.11 identify safe working practice when using support materials in traditional upholstery

Range
<p>Terms Material, quality, tolerance, dimensions, visual appearance, filling type, item type (scroll arm, squab cushions – simple/complex shape)</p> <p>Support materials Suspensions (double and single cone springs, stretch and non stretch webbing, serpentine springs, spring units), fillings (hair, fibres, felts, wadding, feather/down, polyurethane foam, latex, polyester), under cover</p> <p>Condition Joint stability, infestation, wood irregularities</p> <p>Processes Spacing, alignment, lashing, lacing, tensioning, spring edge</p> <p>Methods Stitching, tacking, stapling, stretching</p> <p>Indicators Quality, application, positioning</p> <p>Safe working practice PPE, legal requirements, Approved Code of Practice (ACOP), Health and Safety At Work Act (HASAWA), Control of Substances Hazardous to Health (COSHH), Risk Assessments</p>

Learning outcome
<p>The learner will:</p> <ol style="list-style-type: none"> 2. Understand how to fit material and finish items of traditional upholstery
Assessment criteria
<p>The learner can:</p> <ol style="list-style-type: none"> 2.1 describe handling characteristics of upholstery covers 2.2 describe functions of different tools used in traditional upholstery 2.3 describe different methods of securing upholstery covers 2.4 describe problems that may occur during fitting upholstery covers 2.5 describe the importance of minimising waste 2.6 explain the purpose of using a bottom cloth 2.7 describe handling characteristics of trimmings and finishings 2.8 explain different methods of securing trimmings and finishings 2.9 describe problems that may occur during fitting of trimmings and finishings 2.10 describe processes for dealing with problems 2.11 describe quality checks for completed items

<p>Range</p> <p>Upholstery covers Patterned/striped, plain pile, vinyl, stretch fabrics, flat weave fabrics, natural hide, velvet</p> <p>Functions Hammers, staple guns, staple remover, knives, shears, scalpels, stretching device, needles, skewers</p> <p>Methods Stapling, temporary tacks, tacks, centring, 'v'-cut, 'Y'-cut, measuring, hand stitching, deep buttoning</p> <p>Problems Material defects, colour/pattern mismatching, non functional equipment, tensioning, shape and size, stitching errors, button positioning</p> <p>Trimmings and finishings Braide, piping, fringe, polished wood borders, castors, bun feet, legs, studs</p> <p>Processes Reject, replace, rectify, report, work around material defects</p> <p>Quality checks Visual, measurement</p>

Learning outcome
The learner will: 3. Be able to produce items of traditional upholstery
Assessment criteria
The learner can: 3.1 maintain a tidy work area 3.2 organise tools, equipment and materials 3.3 check that materials meet specifications 3.4 select appropriate protection for items while working 3.5 tie in springs by hand 3.6 create sprung edges 3.7 build foundations of traditional upholstery support materials 3.8 produce items of traditional upholstery 3.9 carry out deep buttoning techniques

Range
Springs Double and single cone
Foundation Hair, fibres, felt, wadding
Item Armchair

Unit 232

Veneering methods in furniture making

UAN:	Y/503/2200
Level:	Level 2
Credit value:	3
GLH:	22
Endorsement by a sector or other appropriate body:	This unit is endorsed by ProSkills, the Sector Skills Council.
Aim:	The aim of this unit is to provide the learner with the knowledge and practical skills to be able to veneer furniture using various methods.. This unit will cover preparing, cutting and veneering methods and gives an awareness of health and safety legislation in particular when using adhesive

Learning outcome
The learner will:
1. Understand the process of preparing, tailoring and laying veneers
Assessment criteria
The learner can:
1.1 describe the purpose of technical specifications
1.2 list terms used in technical specifications
1.3 describe conditions for handling and storing veneers
1.4 describe veneering methods
1.5 describe functions of different tools and equipment used to veneer
1.6 describe the process for matching the quality of different veneers
1.7 describe the characteristics of different types of wood used to tailor veneers
1.8 describe the consequences of inaccurate measuring and cutting of joints
1.9 describe how to prepare surfaces for veneering
1.10 describe different uses of adhesives
1.11 identify safe working practices for adhesives
1.12 describe how to deal with faults that can occur during veneering
1.13 identify correct Personal Protective Equipment (PPE) for adhesives and equipment being used

Range**Terms**

Inlays, veneers, groundwork, straight, slip laid, leaf laid, book match, edge veneering, cross banding, sheet veneers, decorative veneers

Conditions

Flattening, damping, temperature, humidity and ventilation

Veneering methods

Hand laying, manually operated pressing, dry fitting, use of adhesives.

Tools and equipment

Veneering hammers, heated and unheated presses, heated cauls, adhesive rollers, edge clamps, veneer pins, heated adhesive pots, brushes and glue sticks, flat irons and sand bags. veneering saws and knives, planes, measuring devices, veneering tape, set squares, protractors, guillotine

Process

Grain fineness, orientation, colour, hue, decoration, light refraction characteristics

Characteristics

Hardwood, softwood

Prepare

Manmade board, solid wood, porous,

Adhesives

Polyvinyl acetate, urea or phenol formaldehyde, animal based glues, and resorcinol, contact

Safe working practice

Manufacturers' instructions and COSHH regulations, waste disposal, data sheets

Faults

Misalignment, mismatching, discolouration, marking or blistering, glue penetration, jointing, flaws

Learning outcome
The learner will: 2. Be able to prepare and tailor veneers
Assessment criteria
The learner can: 2.1 maintain a tidy work area 2.2 organise tools, equipment and materials 2.3 measure and mark veneers 2.4 cut veneers 2.5 tailor veneer joints .

Range
Joints Taping, stitching

Learning outcome
The learner will: 3. Be able to lay veneers onto groundwork
Assessment criteria
The learner can: 3.1 prepare groundwork for veneering methods 3.2 carry out veneering methods 3.3 demonstrate how to deal with veneer faults 3.4 select Personal Protective Equipment.

Range
Veneering methods Hand laying, manually operated pressing, dry fitting, use of adhesives



Appendix 1 Relationships to other qualifications

Literacy, language, numeracy and ICT skills development

These qualifications can develop skills that can be used in the following qualifications:

- Functional Skills (England) – see www.cityandguilds.com/functionalskills
- Essential Skills (Northern Ireland) – see www.cityandguilds.com/essentialskillsni
- Essential Skills Wales – see www.cityandguilds.com/esw.



Appendix 2 Sources of general information

The following documents contain essential information for centres delivering City & Guilds qualifications. They should be referred to in conjunction with this handbook. To download the documents and to find other useful documents, go to the **Centres and Training Providers homepage** on www.cityandguilds.com.

Centre Manual - Supporting Customer Excellence contains detailed information about the processes which must be followed and requirements which must be met for a centre to achieve 'approved centre' status, or to offer a particular qualification, as well as updates and good practice exemplars for City & Guilds assessment and policy issues. Specifically, the document includes sections on:

- The centre and qualification approval process
- Assessment, internal quality assurance and examination roles at the centre
- Registration and certification of candidates
- Non-compliance
- Complaints and appeals
- Equal opportunities
- Data protection
- Management systems
- Maintaining records
- Assessment
- Internal quality assurance
- External quality assurance.

Our Quality Assurance Requirements encompasses all of the relevant requirements of key regulatory documents such as:

- SQA Awarding Body Criteria (2007)
- NVQ Code of Practice (2006)

and sets out the criteria that centres should adhere to pre and post centre and qualification approval.

Access to Assessment & Qualifications provides full details of the arrangements that may be made to facilitate access to assessments and qualifications for candidates who are eligible for adjustments in assessment.

The **centre homepage** section of the City & Guilds website also contains useful information such on such things as:

- **Walled Garden:** how to register and certificate candidates on line
- **Events:** dates and information on the latest Centre events
- **Online assessment:** how to register for e-assessments.

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Useful contacts

UK learners General qualification information	T: +44 (0)844 543 0033 E: learnersupport@cityandguilds.com
International learners General qualification information	T: +44 (0)844 543 0033 F: +44 (0)20 7294 2413 E: intcg@cityandguilds.com
Centres Exam entries, Certificates, Registrations/enrolment, Invoices, Missing or late exam materials, Nominal roll reports, Results	T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413 E: centresupport@cityandguilds.com
Single subject qualifications Exam entries, Results, Certification, Missing or late exam materials, Incorrect exam papers, Forms request (BB, results entry), Exam date and time change	T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413 F: +44 (0)20 7294 2404 (BB forms) E: singlesubjects@cityandguilds.com
International awards Results, Entries, Enrolments, Invoices, Missing or late exam materials, Nominal roll reports	T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413 E: intops@cityandguilds.com
Walled Garden Re-issue of password or username, Technical problems, Entries, Results, e-assessments, Navigation, User/menu option, Problems	T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413 E: walledgarden@cityandguilds.com
Employer Employer solutions, Mapping, Accreditation, Development Skills, Consultancy	T: +44 (0)121 503 8993 E: business@cityandguilds.com
Publications Logbooks, Centre documents, Forms, Free literature	T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413

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City & Guilds Group

The City & Guilds Group operates from three major hubs: London (servicing Europe, the Caribbean and Americas), Johannesburg (servicing Africa), and Singapore (servicing Asia, Australia and New Zealand). The Group also includes the Institute of Leadership & Management (management and leadership qualifications), City & Guilds Land Based Services (land-based qualifications), the Centre for Skills Development (CSD works to improve the policy and practice of vocational education and training worldwide) and Learning Assistant (an online e-portfolio).

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