

## National Unit Specification: general information

**UNIT** Working with Wood: Household Accessories  
(Intermediate 1)

**NUMBER** D6DH 10

### COURSE

#### SUMMARY

This unit will be suitable for candidates having limited experience of working with woodworking hand tools and associated materials. The outcomes require the candidate to select materials, set out elementary woodworking joints and projects, and use woodworking hand tools to manufacture of a range of elementary woodworking joints and small projects. Candidates who achieve this unit should feel confident in progressing to other units in working with wood to further develop their skills.

#### OUTCOMES

- 1 Select materials and ironmongery for specific use.
- 2 Make a range of woodworking joints.
- 3 Manufacture a wooden product.

#### RECOMMENDED ENTRY

Candidates enrolling for this unit do not need any prior experience although it would be an advantage to have gained unit D6DE 10 Working with Wood: An Introduction.

#### CREDIT VALUE

1 Credit at Intermediate 1.

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### Administrative Information

**Superclass:** WK

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## **CORE SKILLS**

Information on the automatic certification of any core skills in this unit is published in *Automatic Certification of Core Skills in National Qualifications* (SQA, 1999).

## **National Unit Specification: statement of standards**

### **UNIT** Working with Wood: Household Accessories (Intermediate 1)

Acceptable performance in this unit will be the satisfactory achievement of the standards set out in this part of the unit specification. All sections of the statement of standards are mandatory and cannot be altered without reference to the Scottish Qualifications Authority.

#### **OUTCOME 1**

Select materials and ironmongery for specific use.

#### **Note on range for the unit**

The range statement for this unit is fully expressed within the performance criteria.

Current health and safety legislation must be complied with throughout.

#### **Performance criteria**

- a) The identification of woods and sheet materials is correct.
- b) The selection of woods and manufactured sheet material for specific use is appropriate.
- c) The identification of jointing aids and ironmongery is correct.
- d) The selection of jointing aids and ironmongery for specific use is appropriate.

#### **Evidence requirements**

Please refer to *Evidence requirements for the unit* at the end of the Statement of Standards.

#### **OUTCOME 2**

Make a range of woodworking joints.

#### **Performance criteria**

- a) Sawn wood is converted to dressed wood within specified tolerances.
- b) Joints are set out correctly within specified tolerances.
- c) Joints are made within specified tolerances.
- d) Work methods and activities comply with current health and safety regulations.

#### **Evidence requirements**

Please refer to *Evidence requirements for the unit* at the end of the Statement of Standards.

## National Unit Specification: statement of standards (cont)

**UNIT** Working with Wood: Household Accessories (Intermediate 1)

### **OUTCOME 3**

Manufacture a wooden product.

#### **Performance criteria**

- a) The product is set out correctly in accordance with a workshop drawing.
- b) Manufacturing processes are in accordance with recognised practice.
- c) The manufactured product is in accordance with the specification.
- d) Work methods and activities comply with current health and safety regulations.

#### **Evidence requirements**

Please refer to *Evidence requirements for the unit* at the end of the Statement of Standards.

### **EVIDENCE REQUIREMENTS FOR THE UNIT**

#### **Outcome 1**

Evidence of actual performance is needed to show the candidate can, from physical examination of enumerated samples, identify and select for specific use two woods, two sheet materials, two jointing aids and two items of ironmongery and record the identifications and selections.

#### **Outcome 2**

Evidence of actual performance is needed to show the candidate can make, from sawn wood having minimum dimensions of 50mm x 25mm a dovetailed halving joint and either a through mortise and tenon joint or a haunched mortise and tenon joint, plus from dressed wood having minimum dimensions of 70mm x 15mm a through corner dovetailed joint with three pins held square with a hardboard gusset plate. Both components in each joint must have a minimum length of 100mm. All activities must be carried out in a safe and organised manner.

#### **Outcome 3**

Evidence of actual performance is needed to show the candidate can set out and manufacture a wooden product in a safe and organised manner. The product must include all of the following operations: measuring; setting out; planing; sawing; rebating; grooving; chamfering; chiselling; boring or drilling; screwing; nailing; cramping; assembling; sanding.

## **National Unit Specification: support notes**

### **UNIT** Working with Wood: Household Accessories (Intermediate 1)

This part of the unit specification is offered as guidance. The support notes are not mandatory.

While the exact time allocated to this unit is at the discretion of the centre, the notional design length is 40 hours.

#### **GUIDANCE ON THE CONTENT AND CONTEXT FOR THIS UNIT**

This unit is designed to introduce the candidate to basic skills in woodworking with a bias towards products associated with the home interior. Throughout the unit the candidate should be guided to appreciate the need to consider suitability of materials and the design of products in terms of whether they are free standing or fixtures. It is envisaged that the candidate will have limited experience in working with woodworking tools or materials. Whilst it is imperative that all activities are carried out in accordance with current relevant health and safety regulations it is intended that only a basic compliance is summatively assessed.

Corresponding to outcomes 1 to 3:

#### **Outcome 1**

This outcome covers the identification, selection and use, of woods, sheet materials, jointing aids and ironmongery when the candidate is likely to be exposed to the majority of the following:

woods and sheet materials - white pine; red pine; parana pine; beech; jelutong; oak; teak; afrormosia; sycamore; hardboard; interior plywood; exterior plywood; particle board; blockboard; medium density fibreboard; plastic.

jointing aids and ironmongery - wire nails; oval brad nails; lost head nails; panel pins; woodscrews; coach bolts; timber dowels; metal dowels; angle brackets; hinges; slip bolts; turnbuttons; mirror plates; stretcher plates; magnetic catches; knock down fittings.

#### **Outcome 2**

This outcome covers the manufacture of three joints commonly used in home products and accessories. Emphasis should focus on the importance of working accurately and thereafter on, proper stance, posture and positioning of feet and hands in order to minimise the risk of accidents. The use of holding devices such as the woodworking bench vice and cramps should be fully utilised. A workshop drawing must be available for each joint.

#### **Outcome 3**

This outcome covers the manufacture of a product commonly associated with the home interior. Products for the home should be aesthetically pleasing and finished to a standard suitable for the application of polish, wax or paint. To meet the demands of this outcome it may be necessary to manufacture more than one product to ensure full coverage of the operations listed in the evidence requirements. Suggested projects are: three tread step stool; bar stool; three tread folding household steps; bathroom cabinet; bathroom mirror surround; occasional table; telephone shelf; kitchen rack; wine rack; compact disc or cassette storage unit; bedside cabinet; wardrobe tidy. A workshop drawing must be available for each project.

## National Unit Specification: support notes (cont)

**UNIT** Working with Wood: Household Accessories (Intermediate 1)

### **GUIDANCE ON LEARNING AND TEACHING APPROACHES FOR THIS UNIT**

Emphasis throughout this unit should focus on treating tools and equipment with great care and attention whilst working accurately in setting out and during tool applications. The tutor/trainer should fully explain how cutting tools lose their sharpness and therefore their efficiency. Recognised working practices should be fully explained and demonstrated prior to the candidate being exposed to the 'hands on' experience. These recognised working practices should include setting out with a sharp hard pencil when the use of pens should not be tolerated; marking in components in pairs; use of face and edge marks; material retention during tool application; use of workshop equipment; correct posture including the positioning of the feet and hands; maintaining a clean and tidy workspace; working in a safe and organised manner. Numerous projects should be developed when the candidate will be encouraged to select a project. This situation will provide an environment where direct learning is experienced from within the candidate's own project and passive learning from projects being undertaken by others.

### **GUIDANCE ON APPROACHES TO ASSESSMENT FOR THIS UNIT**

Centres may use the Instruments of Assessment which they consider to be the most appropriate. Examples are provided below:

#### **Outcome 1**

Practical Exercise and Objective Questions

The candidate should be provided with three enumerated samples for each of woods, sheet materials, jointing aids and ironmongery. After physical examination of the twelve samples the candidate should record, for each sample, its identification and an appropriate use.

Satisfactory performance in this outcome will be based on the candidate correctly identifying at least, two woods, two sheet materials, two jointing aids and two items of ironmongery and thereafter matching each of the above to an appropriate use.

A checklist will be developed to record the evidence.

#### **Outcome 2**

Practical Exercise

The candidate will be presented with the requisite materials and a working drawing for each joint to be made showing all required dimensions, joint construction and acceptable tolerances.

Acceptable tolerances are shown in the specification:

#### **SPECIFICATION**

Converts sawn wood to dressed wood with hand plane to size within 3mm	-	E
Marks components of joint with face and edge marks in correct orientation	-	D
Draws in joint, with pencil, to sizes shown on workshop drawing within 1mm	-	E

## National Unit Specification: support notes (cont)

**UNIT** Working with Wood: Household Accessories (Intermediate 1)

Completes joints:

Overall dimensions within 3mm	-	E
Joints to be securely fitted with no gaps exceeding 2mm	-	E
Square to within 3mm in 100mm for angle joints-	D	
Surfaces dressed without plane marks	-	D
Ends of components treated with small chamfer	-	D
No visible excess adhesive	-	D

Satisfactory performance in this outcome will be based on the candidate meeting the performance criteria, including gaining all essential items [E] plus at least three desirable items [D] in the above specification.

A checklist will be developed to record the evidence.

### Outcome 3

Practical Exercise

The candidate will be presented with the requisite materials and a workshop drawing showing all required dimensions, joint construction and acceptable tolerances. Wood will be machine dressed. Acceptable tolerances are shown in the specification:

#### SPECIFICATION

Marks components of project with face and edge marks in correct orientation	-	D
Draws in project, with pencil, to sizes shown on the workshop drawing within 1mm	-	E

Completes project:

Overall dimensions within 5mm	-	D
Joints to be securely fitted with no gaps exceeding 2mm	-	D
Square to within 5mm per 300mm run	-	D
Surfaces finished without plane marks	-	D
No visible excess adhesive	-	D
Fulfils its design function	-	E

Satisfactory performance in this outcome will be based on the candidate meeting the performance criteria, including gaining both essential items [E] plus at least four desirable items [D] in the above specification.

A checklist will be developed to record the evidence.

## **National Unit Specification: support notes (cont)**

**UNIT**            Working with Wood: Household Accessories (Intermediate 1)

### **SPECIAL NEEDS**

This unit specification is intended to ensure that there are no artificial barriers to learning or assessment. Special needs of individual candidates should be taken into account when planning learning experiences, selecting assessment instruments or considering special alternative outcomes for units. For information on these, please refer to the SQA document *Guidance on Special Assessment and Certification Arrangements for Candidates with Special Needs/Candidates whose First Language is not English* (SQA, 1998).