

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

HIGHER NATIONAL UNIT SPECIFICATION

GENERAL INFORMATION

-Unit number-	D2WD 04
-Unit title-	CARPENTRY AND JOINERY: PURPOSE-MADE FITMENT CONSTRUCTION
-Superclass category-	WK
-Date of publication- (month and year)	1 AUGUST 2000
-Originating centre for unit-	SQA

-DESCRIPTION-

GENERAL COMPETENCE FOR UNIT: On completion of this unit the candidate will be competent in adopting safe working practices in constructing purpose made fitments, producing detailed drawings and quantifying materials.

OUTCOMES:

1. produce technical information on the construction of fitments;
2. produce a workshop rod and a cutting list for the construction of a fitment with a splayed or curved outline;
3. manufacture a fitment of shaped outline with a drawer.

CREDIT VALUE: 1 HN Credit.

ACCESS STATEMENT: Access to this unit is at the discretion of the centre. However, it would be helpful if the candidate had successfully completed a SVQ level 2 plus the mandatory workplace assessed units in SVQ level 3 Carpentry and Joinery.

The unit forms part of the Advanced Certificate in Carpentry and Joinery and is aimed at candidates following a career in carpentry and joinery and receiving complementary industrial experience.

Additional copies of this unit can be obtained from:

The Committee and Administration Unit, SQA, Hanover House, 24 Douglas Street, Glasgow G2 7NQ, (Tel: 0141-242 2168).

At the time of publication the cost is £1.50 per unit (minimum order £5.00).

HIGHER NATIONAL UNIT SPECIFICATION**STATEMENT OF STANDARDS**

Unit number: D2WD 04

Unit title: CARPENTRY AND JOINERY: PURPOSE-MADE FITMENT
CONSTRUCTION

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

OUTCOME

1. PRODUCE TECHNICAL INFORMATION ON THE
CONSTRUCTION OF FITMENTS

PERFORMANCE CRITERIA

- (a) Drawings are accurate to scale and technically correct.
- (b) Sketches are technically correct.
- (c) Joints for specific situations are specified correctly.
- (d) Health hazards associated with fitment construction are correctly stated.

RANGE STATEMENT

Materials: natural materials; man-made products; adhesives.

Components: reception; library; bar counters; shelving; storage and display units.

Procedures: construction details; section details; sectional views; elevations; plans.

EVIDENCE REQUIREMENTS

Evidence of actual performance is needed to show the candidate can produce detailed scale drawings from a given brief and sketches showing complete constructional details of the fitments.

Written or oral evidence is needed to show the candidate can specify 3 joints for specific use in traditional construction, 3 joints for specific use in modern construction and state 3 health hazards associated with the construction of fitments relevant to the COSHH Regulations and preventative measures to be taken.

Assessment will be in the form of closed book.

All working practices must be in line with current and relevant health and safety legislation and regulations.

All the performance criteria must be met and all items in the range statement covered.

OUTCOME

2. PRODUCE A WORKSHOP ROD AND A CUTTING LIST FOR THE CONSTRUCTION OF A FITMENT WITH A SPLAYED OR CURVED OUTLINE

PERFORMANCE CRITERIA

- (a) The rod is produced full size and includes all construction details.
- (b) The rod is accurate, clear and fully labelled.
- (c) The cutting list produced to accompany the rods is accurate.

RANGE STATEMENT

Materials: hardwood; softwood; sheet material; adhesives; ironmongery; fixings.

EVIDENCE REQUIREMENTS

Evidence of actual performance is needed to show the candidate can produce a workshop rod and a cutting list to accompany the rod for a fitment.

Assessment will be in the form of open book.

All working practices must be in line with current and relevant health and safety legislation and regulations.

All the performance criteria must be met and all items in the range statement covered.

OUTCOME

3. MANUFACTURE A FITMENT OF SHAPED OUTLINE WITH A DRAWER

PERFORMANCE CRITERIA

- (a) Components are produced, prepared and assembled in accordance with the specification.
- (b) Work methods and activities are correct in terms of:
- (i) minimising wastage of materials;
 - (ii) using jigs and formers;
 - (iii) sequencing work;
 - (v) following recognised craft practices;
 - (vi) satisfying current safety legislation.

RANGE STATEMENT

Materials: timber; sheet materials; adhesives; ironmongery; fixings.

Tools and equipment: woodworking machines; powered-hand tools; cramps; woodworking hand tools.

EVIDENCE REQUIREMENTS

Evidence of actual performance is needed to show the candidate can manufacture a fitment to a given specification in a safe and organised manner.

All working practices must be in line with current and relevant health and safety legislation and regulations.

All the performance criteria must be met and all items in the range statement covered.

MERIT STATEMENT: To gain a pass in this unit, a candidate must meet the standards set out in the outcomes, performance criteria, range statements and evidence requirements.

A pass with merit may be awarded to a candidate who substantially exceeds the minimum requirements of the unit for practical competence in outcome 3 and who consistently demonstrates at least 4 from -

- (a) clarity and professionalism in graphical work;
- (b) logical presentation of work;
- (c) optimum use of time and resources;
- (d) logical sequencing of work;
- (e) high awareness of, and compliance with, safety requirements.

ASSESSMENT

In order to achieve this unit, candidates are required to present sufficient evidence that they have met all the performance criteria for each outcome within the range specified. Details of these requirements are given for each outcome. The assessment instruments used should follow the general guidance offered by the Scottish Qualifications Authority (SQA) assessment model and an integrative approach to assessment is encouraged. (See references at the end of support notes).

Accurate records should be made of the assessment instruments used showing how evidence is generated for each outcome and giving marking schemes and/or checklists, etc. Records of candidates' achievements should be kept. These records will be available for external verification.

SPECIAL NEEDS

Proposals to modify outcomes, range statements or agreed assessment arrangements should be discussed in the first place with the external verifier.

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HIGHER NATIONAL UNIT SPECIFICATION**SUPPORT NOTES**

Unit number: D2WD 04

Unit title: CARPENTRY AND JOINERY: PURPOSE-MADE FITMENT
CONSTRUCTION

SUPPORT NOTES: This part of the unit specification is offered as guidance. None of the sections of the support notes is mandatory.

NOTIONAL DESIGN LENGTH: SQA allocates a notional design length to a unit on the basis of time estimated for achievement of the stated standards by a candidate whose starting point is as described in the access statement. The notional design length for this unit is 40 hours. The use of notional design length for programme design and timetabling is advisory only.

PURPOSE This unit has been designed for potential and experienced craftspersons working in the construction industry as carpenters and joiners.

The candidate will be able to produce technical information associated with the construction of purpose made fitments and set out and manufacture a fitment incorporating a drawer.

CONTENT/CONTEXT This unit will be undertaken in a situation where the candidate will be expected to develop all necessary underpinning knowledge and skills related to the design, jointing methods and manufacture of purpose made fitments.

The units deals with purpose-built fitments and is complemented by other units dealing with related aspects of carpentry and joinery.

The unit would be offered to candidates from the carpentry and joinery industry. The skills are transferable within different working environments, but the unit is primarily aimed at candidates whose normal place of work would be a joinery workshop.

The range statement is applicable to all areas of construction and other related or similarly constructed industries. The competences and underpinning knowledge gained in successfully completing this unit would be transferable across a range of disciplines within the built environment. The candidate will work effectively in small groups to design, plan and construct purpose-built fitments. The candidate will be expected to use appropriate power tools, woodworking machinery and hand-tools.

The following information may be helpful with regard to specific outcomes:

1. The candidate could be provided with a wide range of information describing and illustrating the constructional designs and requirements for a range of purpose-built fitments. These information sources could include site visits, videos, visual aids, text books, technical information sheets, current building regulations and health and safety regulations.

Emphasis should be placed on the candidate producing technically correct scaled drawings and sketches showing a high level of draughting skills.

2. The drawings produced in outcome 1 should be the basis of the practical work in outcome 3. The production of the workshop rods and cutting lists would therefore comply with these drawings. Emphasis should be placed on the accuracy of setting out these rods.
3. Candidates should work in a fully equipped joinery workshop. Care must be taken by the candidate to ensure maximum attention is given to safe working practices.

The fitment to be manufactured could be for reception, library or bar counter.

The following safety requirements apply: HSW Act (Health and Safety at Work etc Act); COSHH (Control of Substances Hazardous to Health) Regulations; HSC Safe Use of Woodworking Machinery (ISBN 0-7176-1630-4).

APPROACHES TO GENERATING EVIDENCE Most of this unit will be completed in a situation with the candidate carrying out the procedures outlined in the outcomes. The teaching could be assisted by the use of slides, videos, site-visits and visual aids.

Demonstrations by the tutors/trainers, especially in the practical aspects of this unit, should reinforce and augment the candidates previous knowledge. Safety factors should be highlighted where applicable during the exercise.

Key factors to be emphasised in this unit are:

- (i) clearly detailed drawings;
- (ii) components accurately produced;
- (iii) appropriate assembly techniques are used;
- (iv) high quality finish.

ASSESSMENT PROCEDURES Centres may use the Instruments of Assessment which are considered by tutors/trainers to be the most appropriate. Examples of Instruments of Assessment which could be used are as follows:

The following suggestions may assist the assessor in judging the candidates performance against the performance criteria:

Outcome 1: Assignment from a given specification produce scale drawings and sketches for a purpose-made fitment.

Short answer questions allocated as follows:

(a)	joints for traditional construction	-	4
(b)	joints for modern construction	-	4
(c)	health hazards and preventative measures	-	4

Outcome 2: Produce workshop rod and corresponding cutting list for drawings produced in outcome 1.

Outcome 3: Practical exercise. Manufacture a fitment with a drawer, designed in outcomes 1 and 2.

SPECIFICATION

CARCASE

PASS MERIT

Overall height -	± 5mm	± 3mm
Overall width -	± 5mm	± 3mm
Overall depth -	± 5mm	± 3mm

JOINTS

80% of joints - no gaps exceeding	2mm	1mm
splay/curved front and former	within	2mm

Surface finish - no surface blemishes

DRAWER

80% of joints - no gaps exceeding	2mm	1mm
Overall length	0 to - 3mm	0 to - 2mm
Overall width	0 to - 2mm	0 to - 1mm
Overall height	0 to - 2mm	0 to - 2mm

Free running on rails/fittings
Edgings close fitting

Satisfactory performance in this outcome could be based on the candidate gaining all items from the above specification.

EXEMPLARS

PROGRESSION This unit forms part of the programme for the Advanced Certificate in Carpentry and joinery. Candidates successfully completing the Advanced Certificate will be able to progress to the HNC in Construction Practice.

Each unit is a separate part of a framework of units offered either separately or as a course and may be taken in any prescribed order.

To gain the award the candidate must successfully complete all of the following units:

Carpentry and Joinery: Specialist Doors	1 credit
Carpentry and Joinery: Windows and Screens	1.5 credits
Carpentry and Joinery: High Class Finishings	0.5 credits
Carpentry and Joinery: Complex Pitched Roof Construction	1.5 credits
Carpentry and Joinery: Timber Stairs with Tapered Steps	1.5 credits

plus one of the following optional units:

Carpentry and Joinery: Purpose Made Fitment Construction	1 credit
Carpentry and Joinery: Constructing and Erecting Timber Formwork	1 credit
Carpentry and Joinery: Workshop and Site Setting Out	1 credit

RECOGNITION

REFERENCES

1. Guide to unit writing, SQA, 1993 (Code: A018).
2. Guide to assessment, SQA, 1993 (Code: B005).
3. Guide to certification, SQA, 1996 (Code: F025).
4. Notes for unit writers, SQA, 1995 (Code: A041).

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