



National 4  
Unit  
Specification



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## Practical Woodworking: Flat-frame Construction (National 4) Unit

**SCQF:** level 4 (6 SCQF credit points)

**Unit code:** H25V 74

### Unit outline

The general aim of this Unit is for learners to develop practical skills in the use of woodworking tools and the production of basic flat-frame woodworking joints and assemblies. Learners will learn to read and follow simple woodworking drawings or diagrams. Learners will also develop their knowledge and understanding of woodworking materials, recycling and sustainability issues, as well as an appreciation of safe working practices in a workshop environment.

Learners who complete this Unit will be able to:

- 1 Prepare for flat-frame woodworking tasks
- 2 Construct a range of basic flat-frame woodwork joints
- 3 Assemble a flat-frame with four or more joints

This Unit is a mandatory Unit of the National 4 Practical Woodworking Course and is also available as a free-standing Unit. The Unit Specification should be read in conjunction with the *Unit Support Notes*, which provide advice and guidance on delivery, assessment approaches and development of skills for learning, skills for life and skills for work. Exemplification of the standards in this Unit is given in the *National Assessment Resource*.

The *Added Value Unit Specification* for the National 4 Practical Woodworking Course gives further mandatory information on Course coverage for learners taking this Unit as part of the National 4 Practical Woodworking Course.

## **Recommended entry**

Entry to this Unit is at the discretion of the centre. However, learners would normally be expected to have attained the skills, knowledge and understanding required by one or more of the following or equivalent qualifications and/or experience:

- ◆ National 3 Practical Craft Skills Course or relevant Units
- ◆ National 3 Design and Technology Course or relevant Units

In terms of prior learning and experience, relevant experiences and outcomes may also provide an appropriate basis for doing this Unit.

## **Equality and inclusion**

This Unit Specification has been designed to ensure that there are no unnecessary barriers to learning or assessment. The individual needs of learners should be taken into account when planning learning experiences, selecting assessment methods or considering alternative evidence. For further information, please refer to the *Unit Support Notes*.

# Standards

## Outcomes and assessment standards

### Outcome 1

The learner will:

#### **1 Prepare for flat-frame woodworking tasks by:**

- 1.1 Selecting, with guidance, woodworking tools, equipment and materials appropriate for tasks
- 1.2 Confirming that woodworking tools and equipment are in good condition and safe working order before, during and after use
- 1.3 Using correct names and terminology when referring to woodworking tools, equipment, materials and processes

### Outcome 2

The learner will:

#### **2 Construct a range of basic flat-frame woodwork joints by:**

- 2.1 Preparing timber by planing, or similar, with guidance, to within specified tolerance
- 2.2 Marking out joints, with guidance, to within specified tolerance
- 2.3 Constructing joints, with guidance, such that joint gaps do not exceed specified tolerance
- 2.4 Using tools and equipment safely and correctly

### Outcome 3

The learner will:

#### **3 Assemble a flat-frame with four or more joints by:**

- 3.1 Checking, with guidance, materials supplied against a cutting list
- 3.2 Marking out the component parts, with guidance, in accordance with working drawings and within specified tolerance
- 3.3 Assembling the component parts, with guidance, such that joint gaps and overall sizes are within specified tolerance
- 3.4 Working in accordance with recognised procedures and safe working practices
- 3.5 Carrying out good practice in terms of sustainability and recycling

## Evidence Requirements for the Unit

Assessors should use their professional judgement, subject knowledge and experience, and understanding of their learners, to determine the most appropriate ways to generate evidence and the conditions and contexts in which they are used.

Evidence may be presented for individual Outcomes or it may be gathered for the Unit as a whole through combining assessment in one single activity. If the latter approach is used, it must be clear how the evidence covers each Outcome.

For this Unit, learners will be required to provide evidence of:

- ◆ knowledge and understanding of practical woodworking tools, equipment, materials and processes
- ◆ practical skills in flat-frame construction
- ◆ knowledge and understanding of sustainability issues and good practice in recycling in practical woodworking activities and environments
- ◆ the ability to work in accordance with recognised procedures and safe working practices

For Outcome 1, woodworking tools and equipment includes those for:

- ◆ marking out
- ◆ bench work
- ◆ cramping

For Outcome 1, woodworking materials include:

- ◆ a variety of common softwoods and hardwoods, as available
- ◆ a variety of manufactured boards, as available
- ◆ adhesives and sundry fixings

For Outcome 2, learners must produce a range of six basic joint types from the following list:

- ◆ butt joints
- ◆ corner lap joints
- ◆ various 'T' joints
- ◆ cross halving joints
- ◆ mortise and tenon (stub and through, no haunch)
- ◆ dowel joints

For Outcome 3, learners must produce a flat-frame with four or more joints, using one or more of the basic joint types from the above list, but excluding butt joints.

It is assumed that joints and flat-frames in this Unit are readily portable. The specified tolerances referred to in the Assessment Standards are:

<b>Operation</b>	<b>Tolerance</b>
Marking out	±2mm
Planing or similar	±2mm
Constructing — joint gaps not to exceed	±2mm
Flat-frame — overall sizes within	±5mm

Learners at National 4 level are expected to require a reasonable level of guidance and support throughout practical activities.

Exemplification of assessment is provided in the *Unit Assessment Support*. Advice and guidance on possible approaches to assessment is provided in the *Unit Support Notes*.

# Development of skills for learning, skills for life and skills for work

It is expected that learners will develop broad, generic skills through this Unit. The skills that learners will be expected to improve on and develop through the Unit are based on SQA's *Skills Framework: Skills for Learning, Skills for Life and Skills for Work* and drawn from the main skills areas listed below. These must be built into the Unit where there are appropriate opportunities.

## **2 Numeracy**

2.2 Money, time and measurement

## **4 Employability, enterprise and citizenship**

4.3 Working with others

## **5 Thinking skills**

5.2 Understanding

5.5 Creating

Amplification of these is given in SQA's *Skills Framework: Skills for Learning, Skills for Life and Skills for Work*. The level of these skills should be at the same SCQF level of the Unit and be consistent with the SCQF level descriptor. Further information on building in skills for learning, skills for life and skills for work is given in the *Unit Support Notes*.

# Administrative information

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**Published:** June 2013 (version 1.1)

**Superclass:** WK

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## History of changes to National Unit Specification

Version	Description of change	Authorised by	Date
1.1	Removed one type of joint from Evidence Requirements	Qualifications Development Manager	June 2013

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Note: readers are advised to check SQA's website: [www.sqa.org.uk](http://www.sqa.org.uk) to ensure they are using the most up-to-date version of the Unit Specification.