

## Practical Woodworking: Flat-frame Construction

**SCQF:** level 5 (6 SCQF credit points)

**Unit code:** H25V 75

### 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 flat-frame woodworking joints and assemblies. The ability to read and interpret drawings and diagrams is developed in this Unit. 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 flat-frame woodwork joints
- 3 Assemble a flat-frame with four or more joints

This Unit is 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*.

## **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 the following or equivalent qualifications and/or experience:

- ◆ National 4 Practical Woodworking Course or relevant Units

## **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 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 Adjusting tools where necessary, following safe working practices
- 1.4 Using correct names and terminology when referring to woodworking tools, equipment, materials and processes

### Outcome 2

The learner will:

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

- 2.1 Preparing timber by planing, or similar, to within specified tolerance
- 2.2 Marking out joints to within specified tolerance
- 2.3 Constructing joints 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 materials supplied against a cutting list
- 3.2 Marking out the component parts in accordance with working drawings and within specified tolerance
- 3.3 Assembling the component parts, 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 gathered for the Unit. 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 eight basic joint types: the three mandatory joints; and five from the other joint types list:

<b>Mandatory joint types</b>
<ul style="list-style-type: none"><li>◆ mitred corner joint</li><li>◆ bridle joint</li><li>◆ haunched mortise and tenon</li></ul>

<b>Other joint types</b>
<ul style="list-style-type: none"><li>◆ corner joints other than mitre</li><li>◆ 'T' joints</li><li>◆ cross halving joints</li><li>◆ stub mortise and tenon</li><li>◆ through mortise and tenon</li><li>◆ butt joints</li><li>◆ dowel joints</li></ul>

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 lists, but excluding butt joints.

It is assumed that the 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	±1mm
Planing or similar	±1mm
Constructing — joint gaps not to exceed	±1mm
Flat-frame — overall sizes within	±3mm

Exemplification of assessment for this Unit 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**

5.3 Applying

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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**Superclass:** WK

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## History of changes to National Unit Specification

Version	Description of change	Authorised by	Date

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