



## **National Unit specification: general information**

**Unit title:** Stringed Instruments: Woodworking Hand Tool Skills  
(SCQF Level 5)

**Unit code:** FX38 11

**Superclass:** LJ

**Publication date:** November 2011

**Source:** Scottish Qualifications Authority

**Version:** 02

## **Summary**

This Unit enables candidates to identify, use and maintain the basic woodworking hand-tools required to build stringed musical instruments. Candidates will learn how to sharpen edge tools, square timber surfaces with a plane and become familiar with planing directions and wood grain. They will also mark out and construct a simple article to set dimensions using a range of tools. They will adhere to health and safety regulations relating to hand-tools and the workshop environment at all times.

This is a mandatory Unit within the National Certificate in Stringed Musical Instrument Making and Repair (SCQF level 5). It is also available as a free standing Unit.

This Unit is suitable for candidates who have no prior woodworking experience.

## **Outcomes**

- 1 Identify basic woodworking hand tools and describe their use.
- 2 Maintain a range of edge tools.
- 3 Identify wood grain and grain direction.
- 4 Produce a simple article from a dimensional drawing.

## **Recommended entry**

There are no specific entry requirements. Entry is at the discretion of the centre.

## **Credit points and level**

1 National Unit credit at SCQF level 5 (6 SCQF credit points at SCQF level 5\*)

## **General Information (cont)**

*\*SCQF credit points are used to allocate credit to qualifications in the Scottish Credit and Qualifications Framework (SCQF). Each qualification in the Framework is allocated a number of SCQF credit points at an SCQF level. There are 12 SCQF levels, ranging from Access 1 to Doctorates. General information (cont)*

## **Core Skills**

Achievement of this Unit gives automatic certification of the following Core Skills component:

- ◆ Critical Thinking at SCQF level 4

There are also opportunities to develop aspects of Core Skills which are highlighted in the Support Notes of this Unit specification.

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

**Unit title:** Stringed Instruments: Woodworking Hand Tool Skills  
(SCQF Level 5)

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 SQA.

### **Outcome 1**

Identify basic woodworking hand tools and describe their use.

#### **Performance Criteria**

- (a) Correctly identify basic woodworking hand tools.
- (b) Describe the function of these tools.

### **Outcome 2**

Maintain a range of edge tools.

#### **Performance Criteria**

- (a) Sharpen chisels correctly.
- (b) Sharpen plane blades correctly.
- (c) Set up and test a plane correctly.
- (d) Adhere to workshop health and safety practices.

### **Outcome 3**

Identify wood grain and grain direction.

#### **Performance Criteria**

- (a) Correctly identify end grain and longitudinal grain.
- (b) Correctly identify quarter, slab and slash sawn timber.
- (c) Identify the correct direction in which to plane with the grain.

### **Outcome 4**

Produce a simple article from a dimensional drawing.

#### **Performance Criteria**

- (a) Interpret the drawing accurately.
- (b) Identify the tools required to make the article.
- (c) Use tools correctly and in a logical sequence to make the article.
- (d) Adhere to workshop safety practices.

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

**Unit title:** Stringed Instruments: Woodworking Hand Tool Skills  
(SCQF Level 5)

### Evidence Requirements for this Unit

Evidence is required to demonstrate that candidates have achieved all of the Outcomes and Performance Criteria. A combination of product and performance evidence is required. Additional written and/or recorded oral evidence is also required to demonstrate understanding of wood grain and hand tool identification and function.

Product Evidence:

- ◆ a simple article will be produced from a simple dimensional drawing. The accuracy for all dimensions will be plus or minus 2mm tolerance. Squared timber must not be out of square by more than 1mm over a length of 100mm. There should be no gaps bigger than 1mm.

Performance evidence which demonstrates that:

- ◆ The candidate uses the appropriate tools and machinery in the correct manner to suit each task. Candidates will sharpen 3 chisels and 2 plane blades.
- ◆ The candidate adheres to the health and safety regulations and guidelines with regard to the workshop environment and use of hand tools and machinery.

Additional written and/or oral evidence is required which will be produced in closed-book conditions:

- ◆ correct identification and description of the function of hand-tools in the following categories:
  - Saws
  - Chisels
  - Planes
  - Marking and measuring tools
- ◆ correct identification of longitudinal grain, end grain, slash, slab and quarter sawn timber and grain direction.

## National Unit specification: support notes

**Unit title:** Stringed Instruments: Woodworking Hand Tool Skills (SCQF Level 5)

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 is a mandatory Unit within the National Certificate in Stringed Musical Instrument Making and Repair (SCQF level 5). It can also be taken as a free-standing Unit.

This Unit focuses on the use and maintenance of woodworking tools as used in stringed musical instrument making in a small workshop. It complements the Unit 'Stringed Instruments: Introduction to Woodworking Machines'.

This Unit will enable the candidate to identify and use a range of hand-tools which could include the following:

- ◆ saws
- ◆ try square
- ◆ chisel
- ◆ gouges
- ◆ planes
- ◆ scrapers,
- ◆ scraper burnisher
- ◆ hand-drill
- ◆ marking gauge
- ◆ vernier calliper
- ◆ ruler
- ◆ straight edge
- ◆ files
- ◆ rasps
- ◆ honing guide
- ◆ sharpening stone

The sharpening of edge tools could include a range of plane blades, chisels and gouges. Angles and methods for grinding and honing various edge tools can be discussed. The candidate could practise tool use, marking out and squaring up by producing one simple article such as a bench hook or shooting board.

Methods for planing timber flat and square can be demonstrated together with the use of a straight edge for checking skewed and straight surfaces. The correct direction in which to plane timber can also be demonstrated. Different types of wood grain could be identified and put in context with a cross section of annular tree growth.

This Unit will prepare candidates for progression to 'Stringed Instruments: Manufacture of Body Components'.

## **National Unit specification: support notes**

**Unit title:** Stringed Instruments: Woodworking Hand Tool Skills  
(SCQF Level 5)

Candidates completing this Unit will be working towards aspects of the following Creative and Cultural Skills National Occupational Standards.

Craft: CR13 Select and use techniques, materials, tools and equipment for craft

Craft: CR14 Prepare and maintain materials, tools and equipment for craft

Craft: CR15 Use safe working practices and spaces for craft

Craft: CR16 Complete the craft making process

Craft: CR17 Document and record craft work and work practice

Craft: CR51 Maintain and repair craft work

Craft: CR52 Restore, conserve and reconstruct work in craft

Craft: CR56 Make sure your own actions reduce risks to health and safety

## **National Unit specification: support notes (cont'd)**

**Unit title:** Stringed Instruments: Woodworking Hand Tool Skills  
(SCQF Level 5)

### **Guidance on learning and teaching approaches for this Unit**

Tutor input will be required to identify hand-tools and describe and demonstrate their function and maintenance, and to describe wood grain. Methods of interpreting written and diagrammatic information should be explained and demonstrated.

Candidates can then undertake a number of practical tasks to demonstrate tool use and maintenance and the ability to cut, plane and shape wood correctly.

### **Opportunities for developing Core Skills**

In this Unit candidates will use and maintain tools, understand wood grain and manufacture one article.

Candidates will:

- ◆ read and interpret diagrams
- ◆ read instruction material relating to tool use and maintenance
- ◆ measure, mark and lay out
- ◆ select and use tools
- ◆ identify health and safety issues
- ◆ answer questions relating to tools use and maintenance and wood grain

This means that as candidates are doing this Unit they will be developing aspects of the Core Skills of Communication, Numeracy and Problem Solving.

This Unit has the Problem Solving component of Critical Thinking embedded in it. This means that when candidates achieve the Unit, their Core Skills profile will also be updated to show they have achieved Critical Thinking at SCQF level 4.

### **Guidance on approaches to assessment for this Unit**

Evidence of practical work could be recorded on an observation checklist supported by product evidence as detailed in the Performance Criteria. Additional written and/or recorded oral evidence detailing tool use and maintenance and wood grain will be used to ensure candidates' understanding. This could be in the form of written and/or oral questions.

The questions should be closed-book and could be either short answer or restricted response.

Product evidence for Outcome 4 could be a bench hook, a shooting board an instrument neck rest or similar simple article.

## **National Unit specification: support notes (cont'd)**

**Unit title:** Stringed Instruments: Woodworking Hand Tool Skills  
(SCQF Level 5)

### **Opportunities for the use of e-assessment**

E-assessment may be appropriate for some assessments in this Unit. By e-assessment we mean assessment which is supported by Information and Communication Technology (ICT), such as e-testing or the use of e-portfolios or e-checklists. Centres which wish to use e-assessment must ensure that the national standard is applied to all candidate evidence and that conditions of assessment as specified in the Evidence Requirements are met, regardless of the mode of gathering evidence. Further advice is available in *SQA Guidelines on Online Assessment for Further Education (AA1641, March 2003)*, *SQA Guidelines on e-assessment for Schools (BD2625, June 2005)*.

### **Disabled candidates and/or those with additional support needs**

The additional support needs of individual candidates should be taken into account when planning learning experiences, selecting assessment instruments, or considering whether any reasonable adjustments may be required. Further advice can be found on our website [www.sqa.org.uk/assessmentarrangements](http://www.sqa.org.uk/assessmentarrangements)



## History of changes to Unit

Version	Description of change	Date
02	Core Skills Component Critical Thinking at SCQF level 4 embedded.	28/11/2011

© Scottish Qualifications Authority 2011

This publication may be reproduced in whole or in part for educational purposes provided that no profit is derived from reproduction and that, if reproduced in part, the source is acknowledged.

Additional copies of this Unit specification can be purchased from the Scottish Qualifications Authority. Please contact the Customer Contact Centre, telephone 0845 279 1000.