



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

**Unit title:** Stringed Instruments: Manufacture of Jigs and Templates (SCQF level 5)

**Unit code:** FX3D 11

**Superclass:** LJ

**Publication date:** October 2011

**Source:** Scottish Qualifications Authority

**Version:** 01

### **Summary**

The purpose of this Unit is to enable candidates to manufacture jigs and templates using appropriate materials. The templates and jigs required to construct a stringed musical instrument are identified and the methods of making and using these explained.

This is a mandatory Unit within the National Certificate in Stringed Musical Instrument Making and Repair (SCQF level 5).

This Unit is suitable for candidates with no previous experience of instrument making.

### **Outcomes**

- 1 Manufacture templates relating to an instrument body.
- 2 Manufacture templates relating to instrument neck.
- 3 Produce jigs to assist instrument construction.

### **Recommended entry**

While entry is at the discretion of the centre, candidates would normally be expected to have basic woodworking skills. This may be evidenced by attainment of the following qualification or equivalent skills level:

- ◆ *Stringed Instruments: Woodworking Skills* (SCQF Level 5)

## **General information (cont)**

**Unit title:** Stringed Instruments: Manufacture of Jigs and Templates  
(SCQF level 5)

### **Credit points and level**

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

\*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.

### **Core Skills**

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

- ◆ Critical Thinking at SCQF level 5
- ◆ Using Graphical Information at SCQF level 5

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: Manufacture of Jigs and Templates  
(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**

Manufacture templates relating to an instrument body.

#### **Performance Criteria**

- (a) The appropriate templates required to construct an instrument body are identified using an instrument plan.
- (b) Templates are accurately traced onto suitable template material.
- (c) Templates are accurately cut out.
- (d) All construction specifications and diagrams relating to the template component are transferred accurately from the plan to the template.
- (e) Processes are performed using appropriate tools.
- (f) The correct processes are accurately described.
- (g) Health and safety requirements are adhered to.

### **Outcome 2**

Manufacture templates relating to instrument neck.

#### **Performance Criteria**

- (a) The appropriate templates required to construct an instrument neck are identified using an instrument plan.
- (b) Templates are accurately traced onto suitable template material.
- (c) Templates are accurately cut out.
- (d) All construction specifications and diagrams relating to the template component are transferred accurately from the plan to the template.
- (e) Processes are performed using appropriate tools.
- (f) The correct processes are accurately described.
- (g) Health and safety requirements are adhered to.

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

**Unit title:** Stringed Instruments: Manufacture of Jigs and Templates (SCQF level 5)

### Outcome 3

Produce jigs to assist instrument construction.

### Performance Criteria

- (a) Jigs relating to instrument construction are accurately identified.
- (b) Two jigs required in the construction of musical instruments are correctly manufactured.
- (c) Processes are performed using appropriate tools.
- (d) The correct processes are accurately described.
- (e) Health and safety requirements are adhered to.

### Evidence Requirements for this Unit

Evidence is required to demonstrate that candidates have achieved all Outcomes and Performance Criteria.

A combination of product and performance evidence is required. Written and/or oral recorded evidence is also required to demonstrate the candidate's understanding of the processes.

Product evidence:

- ◆ A minimum of four templates will be produced and a minimum of two jigs manufactured. The templates will conform accurately to the instrument plan. The jigs must function correctly for the purpose for which they were built.

Performance evidence which demonstrates that:

- ◆ The candidate uses the appropriate tools and machinery in the correct manner to suit each task.
- ◆ The candidate adheres to the health and safety regulations and guidelines with regard to the workshop environment and use of hand-tools and machinery.

Product and Performance Evidence may be recorded on a checklist.

Written and/or oral recorded evidence is required which provides an accurate description of the manufacturing processes used by the candidate and demonstrates that the procedures have been understood.

## National Unit specification: support notes

**Unit title:** Stringed Instruments: Manufacture of Jigs and Templates (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).

The purpose of this Unit is to make the jigs and templates required to make and assemble the components of a musical instrument. A plan will be used to identify the template requirements. Methods of instrument construction will be explored and the jigs used in the manufacturing process will be identified. The processes for producing the jigs and templates will be explained.

Templates will include any of the following:

- ◆ body
- ◆ neck
- ◆ headstock/peghead
- ◆ front and back arching
- ◆ bridge
- ◆ heel
- ◆ heel-cap

Jigs will include any of the following:

- ◆ brace bending
- ◆ brace gluing jigs ('solera', a dish shaped mold used to glue braces)
- ◆ top and back planning and joining jig
- ◆ neck angle
- ◆ bridge positioning jigs
- ◆ instrument molds

Workshop health and safety must be adhered to.

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

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

**Unit title:** Stringed Instruments: Manufacture of Jigs and Templates  
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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)

**Unit title:** Stringed Instruments: Manufacture of Jigs and Templates (SCQF level 5)

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

This is a workshop based Unit, however tutor input to identify methods of instrument construction and the necessary jigs and templates needed for building can be given prior to embarking on the practical work.

Methods of interpreting written and diagrammatic information should be explained and demonstrated as should the methods for transferring the component outlines on the plan to the template material and the techniques for cutting and shaping the templates. An explanation regarding which specifications and diagrams should be transferred to the templates should be given.

Examples of jigs and templates can be used to demonstrate why they are necessary and how they will be used in the construction process.

### Guidance on approaches to assessment for this Unit

Evidence of practical work may be recorded on an observation checklist supported by product evidence as detailed in the Performance Criteria. Written and/or oral recorded evidence detailing the manufacturing process will be used to ensure candidates' understanding – this could be in the form of a logbook.

The logbook and checklist evidence could be accumulated holistically throughout the Unit for all Outcomes.

When taught as part of the National Certificate in Stringed Musical Instrument Making and Repair (SCQF level 5) the written assessment may be included in a log book that can be used to combine assessment of the following Units:

- ◆ *Stringed Instruments: Manufacture of an Instrument Neck* (SCQF level 5)
- ◆ *Stringed Instruments: Manufacture Instrument Body Components* (SCQF Level 5)
- ◆ *Stringed Instruments: Assembly of Instrument Body and Neck* (SCQF level 5)
- ◆ *Stringed Instruments: Instrument Inlay and Soundhole Cutting Techniques* (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)*.

## National Unit specification: support notes (cont)

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### Opportunities for developing Core Skills

In this Unit candidates will make the jigs and templates required to make and assemble the components of a musical instrument.

Candidates will:

- ◆ read and interpret diagrams
- ◆ read instruction material relating to the construction process
- ◆ measure, mark and lay out
- ◆ select and use tools
- ◆ identify health and safety issues
- ◆ record the manufacturing process

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

### 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

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