



## Higher National Unit Specification

### General information

**Unit title:** Stringed Instruments: Jig Making (SCQF level 7)

**Unit code:** HN7T 34

**Superclass:** LJ

**Publication date:** September 2017

**Source:** Scottish Qualifications Authority

**Version:** 2

### Unit purpose

This unit will allow learners to investigate and manufacture jigs which will help enhance the construction and manufacturing process. Learners will be encouraged to use their initiative and imagination to identify, analyse and/or adapt jigs used by luthiers. Learners will explore the use of jigs to aid assembly and for use with hand tools and power tools to develop accuracy, speed and consistency. The production of these jigs will further develop practical skills and allow for the rationalisation of working methods pertinent to those found in a small workshop situation. Selected jigs from a range will be manufactured and tested to ensure they work correctly and safely.

This is an optional unit within the Higher National Certificate in Stringed Musical Instrument Making and Repair (SCQF level 7). This unit is suitable for learner in education and those from industry who wish to extend their knowledge and practical application of repair techniques.

### Outcomes

On successful completion of the unit the learner will be able to:

- 1 Identify and analyse jigs used by luthiers.
- 2 Design and manufacture jigs.
- 3 Test jigs for safe and effective operation.

### Credit points and level

1 National Unit credit at SQF level 7: (8 SCQF credit points at SCQF level 7)

## Higher National Unit Specification: General information (cont)

**Unit title:** Stringed Instruments: Jig Making (SCQF level 7)

### Recommended entry to the unit

While entry is at the discretion of the centre, this unit is aimed at candidates who have achieved *Stringed Instruments: Manufacture of Jigs and Templates* (SCQF level 5).

### Core Skills

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

Complete Core Skill	None
Core Skill components	Critical Thinking at SCQF level 5 Planning and Organising at SCQF level 5

### Context for delivery

If this unit is delivered as part of a group award, it is recommended that it should be taught and assessed within the subject area of the group award to which it contributes.

### 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.

Further advice can be found on our website [www.sqa.org.uk/assessmentarrangements](http://www.sqa.org.uk/assessmentarrangements).

# Higher National Unit Specification: Statement of standards

## Unit title: Stringed Instruments: Jig Making (SCQF level 7)

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 and analyse jigs used by luthiers.

#### Knowledge and/or skills

- ◆ Research
- ◆ Analysis
- ◆ Materials

### Outcome 2

Design and manufacture jigs.

#### Knowledge and/or skills

- ◆ Analysis
- ◆ Personal judgement
- ◆ Hand skills
- ◆ Machine skills

### Outcome 3

Test jigs for safe and effective operation.

#### Knowledge and/or skills

- ◆ Practical hand skills
- ◆ Health and safety
- ◆ Jig and tool use
- ◆ Machine skills

## Higher National Unit Specification: Statement of standards (cont)

**Unit title:** Stringed Instruments: Jig Making (SCQF level 7)

### Evidence requirements for this unit

Learners will need to provide evidence to demonstrate their knowledge and/or skills across all outcomes by showing that they can:

#### Outcome 1

- ◆ identify relevant jigs.
- ◆ consider appropriate modifications and adaptations to jigs.

Learners should produce evidence of research and a written/oral discussion about how jigs may be modified or adapted for use. Appropriate materials should also be identified.

#### Outcome 2

- ◆ design jigs suited to purpose.
- ◆ manufacture jigs suited to purpose.
- ◆ adhere to health and safety working requirements.

Evidence should be presented as design briefs and completed product and completed safety checklist.

#### Outcome 3

- ◆ test jigs for effective operation.
- ◆ adhere to Health and Safety requirements

Evidence should be presented as completed practical task and completed safety checklist.



## Higher National unit Support Notes

**Unit title:** Stringed Instruments: Jig Making (SCQF level 7)

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 unit is intended to enhance the knowledge and skills obtained from *Stringed Instruments: Manufacture of Jigs and Templates* (SCQF level 5).

Jigs could be designed and manufactured in a manner pertinent to that used in a small workshop. Learners should use their initiative and imagination in designing jigs with guidance from the tutor. Safe working practices should be emphasised at all times. Learners need to be aware that in the case of a self-employed instrument maker, most of the working day is spent in solitude and in the case of an accident help is not available, so working practices need to reflect this situation.

Jigs can include any of the following:

- ◆ Binding and purfling router jig
- ◆ Bridge slotting jig
- ◆ Bridge string hole drilling jig
- ◆ Headstock slotting jig
- ◆ Headstock drilling jig
- ◆ Truss rod routing jig
- ◆ Bridge shaping jig
- ◆ Headstock shaping jig
- ◆ Rosette routing jig
- ◆ Brace curvature jig
- ◆ Rosette making jig
- ◆ Fret slotting jig
- ◆ Gluing jigs
- ◆ Violin neck angle jig
- ◆ Violin neck orientation jig
- ◆ Violin plate holding jigs
- ◆ Violin joint preparation jig
- ◆ Violin plate purfling router jig
- ◆ Other devised jigs

## Higher National unit Support Notes (cont)

**Unit title:** Stringed Instruments: Jig Making (SCQF level 7)

This unit can be linked to:

*Stringed Instruments: Instrument Inlay and Soundhole Cutting Techniques* (SCQF level 7)

*Stringed Instruments: Manufacture of an Instrument Neck* (SCQF level 7)

*Stringed Instruments: Manufacture of Instrument Body Components* (SCQF level 7)

*Stringed Instruments: Machine Woodworking* (SCQF level 7)

### Guidance on approaches to delivery of this unit

The approach to this unit should be learner centred, and an intuitive and free-thinking attitude should be encouraged. Guidance from the tutor can help facilitate and encourage good work practises. This unit could be delivered in an integrated manner using guided group discussion, question and answer sessions, individual tutorial guidance and lectures. Interaction between learners should be encouraged to expand knowledge and understanding.

*Stringed Instruments: Machine Woodworking* (SCQF level 7) could be used where appropriate for jig manufacturing.

Tutors should discuss individual jig making projects guiding the learner through the process of analysis, decision-making and the completion of relevant written and practical work. Learners should be encouraged to develop their own designs to give a sense of ownership and achievement.

The value of research into commercially available jigs and manufacturer specific solutions to making jigs could be emphasised in discussions, lectures and group sessions.

Organising a visit to an instrument-making workshop is worthwhile as it gives real context to what needs to be achieved.

### Guidance on approaches to assessment of this unit

Evidence can be generated using different types of assessment. The following are suggestions only. There may be other methods that would be more suitable to learners.

Centres are reminded that prior verification of centre-devised assessments would help to ensure that the national standard is being met. Where learners experience a range of assessment methods, this helps them to develop different skills that should be transferable to work or further and higher education.

The written assessment elements, stand alone or integrated should consist of sketches of design ideas, written briefs and dimensioned drawings presented as a folio or as individual submissions for each jig.

Physical and photographic evidence could be presented to the tutor who can complete a checklist.

## **Higher National unit Support Notes (cont)**

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### **Opportunities for 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 social software. Centres which wish to use e-assessment must ensure that the national standard is applied to all learner evidence and that conditions of assessment as specified in the evidence requirements are met, regardless of the mode of gathering evidence. The most up-to-date guidance on the use of e-assessment to support SQA's qualifications is available at [www.sqa.org.uk/e-assessment](http://www.sqa.org.uk/e-assessment).

### **Opportunities for developing Core and other essential skills**

This Unit has the Critical Thinking and Planning and Organising components of Problem Solving embedded in it. This means that when learners achieve the Unit, their Core Skills profile will also be updated to show they have achieved Critical Thinking at SCQF level 5 and Planning and Organising at SCQF level 5

## History of changes to unit

Version	Description of change	Date
2	Core Skills Component Critical Thinking at SCQF level 5 and Planning and Organising at SCQF level 5 embedded.	11/09/2017

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## General information for learners

### **Unit title:** Stringed Instruments: Jig Making (SCQF level 7)

This section will help you decide whether this is the unit for you by explaining what the Unit is about, what you should know or be able to do before you start, what you will need to do during the unit and opportunities for further learning and employment.

In most cases you will have achieved *Stringed Instruments: Manufacture of Jigs and Templates* (SCQF level 5) or will have been working at an equivalent level, so will have a sound knowledge of jig functions and uses.

This unit enables you to adopt a more professional approach to jig making, introducing an element of consistency to production in a small workshop environment. You will learn how to identify and analyse various jigs, choosing and adapting them to your specific needs. You will gain an understanding of production methods using jigs, which could be assessed by submitting drawings, briefs and tested jigs.

You will gain the ability to use jigs to achieve consistency and speed up the manufacturing process.

This unit has the Critical Thinking and Planning and Organising components of Problem Solving embedded in it. This means that when you achieve the unit, your Core Skills profile will also be updated to show you have achieved Critical Thinking and Planning and Organising at SCQF level 5.