



Higher National Unit Specification

General information

Unit title: Stringed Instruments: Manufacture of Instrument Body Components (SCQF level 7).

Unit code: HN7J 34

Superclass: LJ

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Version: 01

Unit purpose

In this unit learners will manufacture instrument body components. The production of these components for more than one instrument will further develop practical skills and allow for the rationalisation of working methods in a similar way to the production methods pertinent to those found in a small workshop situation. Learners will develop time and resource management skills whilst planning the production methods to a timescale.

This is a mandatory unit within the Higher National Certificate in Stringed Musical Instrument Making and Repair (SCQF level 7). The unit is aimed at learners who have achieved *Stringed Instruments: Manufacture Instrument Body Components* (SCQF level 6) or those working at an equivalent level who wish to enhance their skills and knowledge.

Outcomes

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

- 1 Produce instrument component specifications from a set of drawings.
- 2 Plan the production methods and timescales for manufacturing components for instruments.
- 3 Manufacture components for instruments.

Credit points and level

2 Higher National Unit credits at SCQF level 7: (16 SCQF credit points at SCQF level 7)

Higher National Unit Specification: General information (cont)

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

Recommended entry to the unit

While entry is at the discretion of the centre, this unit is aimed at learners who have achieved *Stringed Instruments: Manufacture Instrument Body Components* (SCQF level 6).

Core Skills

Opportunities to develop aspects of Core Skills are highlighted in the support notes for this unit specification.

There is no automatic certification of Core Skills or Core Skill components in this unit.

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.

Higher National Unit Specification: Statement of standards

Unit title: Stringed Instruments: Manufacture of Instrument Body Components (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

Produce instrument component specifications from a set of drawings.

Knowledge and/or skills

- ◆ Interpretation of drawings
- ◆ Analysis of drawing specifications
- ◆ Materials

Outcome 2

Plan the production and timescales for manufacturing components for instruments.

Knowledge and/or skills

- ◆ Schedules of work
- ◆ Time management
- ◆ Production Planning

Outcome 3

Manufacture components for instruments.

Knowledge and/or skills

- ◆ Production specifications
- ◆ Practical woodworking skills
- ◆ Carving skills
- ◆ Accurate layout skills
- ◆ Health and safety

Higher National Unit Specification: Statement of standards (cont)

Unit title: Stringed Instruments: Manufacture of Instrument Body Components (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

- ◆ interpret technical information.
- ◆ produce worksheets of component measurements.
- ◆ specify appropriate materials.

Evidence should be presented as completed worksheets detailing component measurements and materials for two instruments.

Outcome 2

- ◆ produce a schedule of work.
- ◆ produce a manufacturing timetable.

Evidence should be presented as a completed work schedule and timetable for manufacturing components for two instrument bodies.

Outcome 3

- ◆ follow production specifications.
- ◆ accurately layout instrument components.
- ◆ accurately fabricate instrument components.
- ◆ accurately contour instrument parts.
- ◆ work safely.

Evidence should be presented as two completed sets of instrument components ready for assembly.



Higher National Unit Support Notes

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

Unit support notes are offered as guidance and are not mandatory.

While the exact time allocated to this unit is at the discretion of the centre, the notional design length is 80 hours.

Guidance on the content and context for this unit

This unit has been designed to develop instrument manufacturing skills in the context of a professional environment where time management and increased production skills are essential elements. This unit formalises planning and scheduling of work, giving learners time management skills thus enhancing employment prospects.

Outcomes 1 and 2 are skills that are relevant for much of industry irrespective of a particular field, and these transferable skills can broaden the prospect of employment for all learners. The practical element will enhance motor skills again leading to broadening prospects.

Learners should interpret orthographic drawings and generate production specifications incorporating cutting lists, materials lists, schedules of work and manufacturing timetables. Emphasis could be given on construction methods utilised in small workshops where two to five instruments are built at a time.

Accuracy of layout and manufacture should be an important component in achieving the repeated production of an instrument design where the learner decides to make similar instruments. This is also an important component of the manufacturing process for consideration with regard to the use of jigs and machinery.

It is suggested that normally two sets of instrument components are manufactured. The merits of building two the same or two different should be discussed and the production agreed between learner and lecturer.

Guidance on approaches to delivery of this unit

Although this unit is structured in a particular order, learners should be encouraged to take responsibility for their learning by working to their timetable and adjusting completion dates to account for challenges in the practical work with the agreement of the tutor. This reflects the reality of employment and prepares the learner with coping strategies.

Higher National Unit Support Notes (cont)

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

As the unit is student centred, space should be made for group discussion and interpersonal constructive dialogue to stimulate the process of learning. Practical tutor led demonstration can provide clarity to complex learning tasks, where an integrated question and answer session can help individuals to gain confidence in their problem solving abilities.

Learners should be encouraged to identify the key elements of a drawing where design variations would normally be considered by the maker, ie bracing pattern, bridge position, etc.

Lectures and discussion groups could help to identify methods of working that enhance production. Emphasis on production methods used in the small workshop environment would be relevant.

Referring to the units *Stringed Instruments: Jig Making* and *Stringed Instruments: Wood Machining* will be useful when giving consideration to production planning methods suitable to small workshops.

A visit to a small instrument workshop to see at first hand the production methods would be beneficial.

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.

Outcomes 1 and 2 can be assessed together by the submission of a written/oral/signed report. This should be assessed before undertaking Outcome 3 as the report will provide the production specification for the component manufacture.

A checklist could be used to record the practical work undertaken in Outcome 3.

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.

Higher National Unit Support Notes (cont)

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Communication and *ICT* skills will be developed during the production of a work schedule. *Problem Solving* and *Numeracy* will be developed whilst interpreting, analysing drawings/plans and applying data to produce practical work.

History of changes to unit

Version	Description of change	Date

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General information for learners

Unit title: Stringed Instruments: Manufacture of Instrument Body Components (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 Instrument Body Components* (SCQF level 6) or will have been working at an equivalent level, so will have a sound knowledge of instrument component making.

This unit enables you to adopt a more professional and ordered approach to component making in a small workshop environment. You will learn how to interpret and analyse drawings, choose materials and adapt specifications.

You will gain an understanding of systems of timetabling and planning work schedules. You will understand how the use of jigs is important when working within a small workshop or as a sole trader.