



National Unit specification: general information

Unit title: Furniture: Workshop Practice

Unit code: H3LG 11

Superclass: WK

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Summary

This Unit provides candidates with an introduction to the tools and equipment required for the safe manufacture of a specified range of joints used within the furniture industry. It will develop the candidate's understanding of planning using cutting lists, production plans, legislation and Personal protection equipment required to work safely within a workshop environment. This Unit is suitable for school leavers, adults returning to education and full time students wishing to gain employment within the furniture manufacturing industry or timber allied trades.

Outcomes

- 1 Describe the function and maintenance of a range of woodworking tools.
- 2 Demonstrate the manufacture of a range of woodworking joints.
- 3 Produce cutting lists and production plans.

Recommended entry

Entry for this Unit 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*)

**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.*

National Unit specification: statement of standards

Unit title: Furniture: Workshop Practice

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

Describe the function and maintenance of a range of woodworking tools.

Performance Criteria

- (a) Identify woodworking tools from a specified range.
- (b) Describe the function for a range of specified tools.
- (c) Describe the appropriate maintenance and storage of a range of specified tools.

Outcome 2

Demonstrate the manufacture of a range of woodworking joints.

Performance Criteria

- (a) Select appropriate tools and equipment.
- (b) Set out and mark components to a specified dimension.
- (c) Produce components to a specified dimension safely, using appropriate tools and equipment.
- (d) Demonstrate the correct use of PPE.

Outcome 3

Produce cutting lists and production plans.

Performance Criteria

- (a) Describe the need for cutting lists and production plans.
- (b) Create a cutting list for a specific project.
- (c) Create a production plan for a specific project.

National Unit specification: statement of standards (cont)

Unit title: Furniture: Workshop Practice

Evidence Requirements for this Unit

Evidence is required to that the candidate has achieved this Unit to the standard specified within all Outcomes and Performance Criteria. All working practices must be in line with current health and safety legislation and regulations.

Written and/ or oral evidence is required for Outcome 1 which demonstrates the candidates can identify a range of woodworking tools, their functions and uses. The candidates should also show understanding of the importance of the maintenance and storage of a range of woodworking tools, including:

- ◆ Measuring tape/rule
- ◆ Marking knife/pencil
- ◆ Set square
- ◆ Marking gauge/mortice gauge
- ◆ Bevel edged chisel
- ◆ Mortice chisel
- ◆ Tenon saw
- ◆ Oil stones/ceramic and diamond sharpening stones

Evidence of actual performance is required for Outcome 2 which demonstrates the candidate can select appropriate equipment for a minimum of four different tasks. The candidate must also demonstrate the safe use and maintenance of wood working tools and equipment. This should include holding devices such as, clamps, vices and bench hooks. The candidate should also be able to identify the correct PPE required such as safety glasses, hearing protection and dust masks and clothing for each of the tasks.

- ◆ Mortice and tenon
- ◆ Half lap
- ◆ Simple housing
- ◆ Mitre joint
- ◆ Through dove tail joint
- ◆ Bridle joint

Evidence of actual performance is required for Outcome 3 to show that the candidate can create a cutting list and production plan for a specific project. The candidate will also have to provide written and/or oral evidence to show under pinning knowledge and understanding of the importance of necessity of accurate cutting lists and production plans in relation to wastage, costs and time management.

National Unit specification: support notes

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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 Unit has been developed as a mandatory Unit within the Furniture National Certificate at SCQF level 5.

The successful completion of this Unit will provide candidates with the required underpinning knowledge of the safe use and storage of a range of tools and equipment integral to the manufacture of furniture pieces and their components. The candidate will also gain experience of working to given tolerances and dimensions when operating machinery and knowledge of the current safety legislation and regulations relating to woodworking machinery and the personal protection equipment required to complete a risk assessment.

The Unit would be offered to candidates who have a desire to attain employment within the furniture industry. The skills are transferable within different working environments within the timber and allied trades.

The Unit deals with the theory and practice associated with the safe use of tools and equipment used to manufacture specified joints. The Unit also should be delivered as part of a structured program of training. This Unit can also be delivered as a free-standing Unit.

Guidance on learning and teaching approaches for this Unit

The candidate should be introduced to all the relevant woodworking tools, their maintenance, safety devices, legislation and the use of cutting lists and production plans through classroom teaching with the use of PowerPoint presentations, online material, DVDs, VLE, reference books, classroom exercises and group discussions.

The manufacture of joints, maintenance of tools and tool storage should be demonstrated thoroughly. Safe working practices should be observed at all times. The teaching approach should ensure the candidate is gaining the underpinning knowledge and practical experience to complete the Unit.

National Unit specification: support notes (cont)

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Guidance on approaches to assessment for this Unit

Outcome 1

Evidence for this Outcome could be obtained by a short answer question paper for Performance Criteria B and C under closed-book supervised conditions. Performance criterion A could be evidenced by an assessment comprising of a graphics to identify tools from a series of images, also under closed-book conditions.

Outcome 2

Evidence for all Performance Criteria within this Outcome could be gathered through observation that the candidate has met the given standards during the practical activities. The candidate must also provide actual evidence that they have worked safely using the marking out procedures, tools, and personal protective equipment. An assessor observation checklist could be used to record this evidence.

Outcome 3

Evidence for Performance Criteria A and B could be gathered through the completion of a cutting list and production plan. The cutting list and production plan could be signposted through integration between Units, Furniture Carcase Construction or Furniture Frame Construction. Performance criterion C should be evidenced through a short answer question paper.

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)*.

Opportunities for developing Core Skills

There are opportunities to develop the Core Skill of *Numeracy* at SCQF level 4 through the interpretation of information from dimensioned working drawings and the practical use of calculation and measuring scales.

There are opportunities to develop the Core Skill of *Communication* at SCQF level 4 through out practical tasks, as candidates should be expected to communicate with others using the correct terminology, tone and style suited to the workplace.

Outcome 1 provides an opportunity for candidates to develop the Core Skill of *Working with Others* at SCQF level 4 through discussions within group activities.

National Unit specification: support notes (cont)

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There are opportunities to develop the Core Skill of *Problem Solving* at SCQF level 4. Candidates will need to take account of a range of factors in order to work efficiently and safely, such as the choice of tools and safety equipment. Individual discussions with assessors and the use of role play will enhance the evaluation of efficient working practices.

This Unit has the Critical Thinking and Planning and Organising components of Problem Solving 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 and Planning and Organising at SCQF level 4.

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

History of changes to Unit

Version	Description of change	Date
02	Core Skills Components Critical Thinking and Planning and Organising at SCQF level 4 embedded.	22/04/2013

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