



National 5
Course Assessment
Specification



National 5 Practical Woodworking Course Assessment Specification (C762 75)

Valid from August 2013

Revised: April 2016, version 1.2

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Please refer to the note of changes at the end of this Course Assessment Specification for details of changes from previous version (where applicable).

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Course outline

Course title:	National 5 Practical Woodworking
SCQF level:	5 (24 SCQF credit points)
Course code:	C762 75
Course assessment code:	X762 75

The purpose of the Course Assessment Specification is to ensure consistent and transparent assessment year on year. It describes the structure of the Course assessment and the mandatory skills, knowledge and understanding that will be assessed.

Course assessment structure

Component 1 — practical activity	80 marks
Total marks	80 marks

This Course includes six SCQF credit points to allow additional time for preparation for Course assessment. The Course assessment covers the added value of the Course.

Equality and inclusion

This Course Assessment Specification has been designed to ensure that there are no unnecessary barriers to assessment. Assessments have been designed to promote equal opportunities while maintaining the integrity of the qualification.

For guidance on assessment arrangements for disabled learners and/or those with additional support needs, please follow the link to the Assessment Arrangements web page: www.sqa.org.uk/sqa/14977.html.

Guidance on inclusive approaches to delivery and assessment of this Course is provided in the *Course Support Notes*.

Assessment

To gain the award of the Course, the learner must pass all of the Units as well as the Course assessment. Course assessment will provide the basis for grading attainment in the Course award.

Course assessment

SQA will produce and give instructions for the production and conduct of Course assessments based on the information provided in this document.

Added value

The purpose of the Course assessment is to assess added value of the Course as well as confirming attainment in the Course and providing a grade. The added value for the Course will address the key purposes and aims of the Course, as defined in the Course rationale. It will do this by addressing one or more of breadth, challenge, or application.

In this Course assessment, added value will focus on the following:

- ◆ challenge — requiring greater depth or extension of knowledge and/or skills
- ◆ application — requiring application of knowledge and/or skills in practical or theoretical contexts as appropriate

This added value consists of:

- ◆ applying skills, knowledge and understanding developed in the Course to manufacture a finished product in wood to a given standard
- ◆ demonstrating practical creativity and problem-solving during the manufacturing process

Grading

Course assessment will provide the basis for grading attainment in the Course award.

The Course assessment is graded A–D. The grade is determined on the basis of the total mark for all Course assessments together.

A learner's overall grade will be determined by their performance across the Course assessment.

Grade description for C

For the award of Grade C, learners will have demonstrated successful performance in all of the Units of the Course. In the Course assessment, learners will typically have demonstrated successful performance in relation to the mandatory skills, knowledge and understanding for the Course.

Grade description for A

For the award of Grade A, learners will have demonstrated successful performance in all of the Units of the Course. In the Course assessment, learners will typically have demonstrated a consistently high level of performance in relation to the mandatory skills, knowledge and understanding for the Course.

Credit

To take account of the extended range of learning and teaching approaches, remediation, consolidation of learning and integration needed for preparation for external assessment, six SCQF credit points are available in Courses at National 5 and Higher, and eight SCQF credit points in Courses at Advanced Higher. These points will be awarded when a Grade D or better is achieved.

Structure and coverage of the Course assessment

The Course assessment will consist of one Component: a practical activity.

Component 1 — practical activity

The purpose of the practical activity is to allow learners to demonstrate the application of skills and knowledge that they have developed during the Course, to produce a finished product, to a given standard, in natural timber. Manufactured board materials should not be used unless explicitly stated in the practical activity instructions.

The practical activity will comprise 100% of total marks. It should be carried out under workshop conditions.

The working drawings for the practical activity will not detail every aspect of the product. This will allow the task to be sufficiently open and flexible to allow for personalisation and choice, and will allow learners to demonstrate practical creativity.

This practical activity will give learners an opportunity to demonstrate the following skills, knowledge and understanding:

- ◆ selecting and using a range of common woodworking tools, equipment, materials and finishes appropriate for activity
- ◆ reading, interpreting and following given working drawings and outline specification information and cutting lists
- ◆ marking out, cutting and shaping woodwork components
- ◆ manufacturing finished product to given drawings and standards
- ◆ working and using tools and equipment in accordance with recognised procedures and safe working practices

The product will consist of a minimum of five component parts. Component parts will be prepared, as required, for a single finish prior to assembly. The component parts will be assembled, fixed and an appropriate finish applied to a given standard.

The product should be made and finished with the assistance of hand and power tools. Learners will also be required to provide evidence of using skills in flat-frame woodworking, carcass construction and turning (using a woodworking lathe) in the manufacture of the product.

It is assumed that the product will be readily portable. The standards and tolerances applicable to the product are as follows:

Operation	Tolerance
Individual components	
Planing (or similar)	±1mm
Marking out	±1mm
Machine/power tool tasks: <ul style="list-style-type: none"> ◆ vertical drilling ◆ sanding to a line ◆ drilling to given line position 	±1mm
Joint gaps	Not to exceed 1mm
Overall sizes	±3mm

In addition, evidence is required to show that:

- ◆ turning using a woodworking lathe conforms to a complex template and/or working drawing which includes the requirement for several different diameters
- ◆ timber surfaces are prepared in accordance with manufacturer's instructions, demonstrate good practice, and are to a high standard
- ◆ surface finishes are prepared and applied in accordance with manufacturer's instructions, demonstrate good practice, are finished to a high standard, and without blemish
- ◆ fixings and associated operations are made without damage and with correct torque/security

During the practical activity, learners must follow recognised procedures and safe working practices at all times.

A record of progress of the practical activity (such as an informal log or blog) should be kept and produced by the learner. Information in the diary should include when tasks are completed, areas that have been an issue for the learner, safe working practices, and strength and weaknesses. The diary should also indicate where practical creativity has been demonstrated.

For further details of the Course requirements, please see the 'Further mandatory information on Course coverage' section.

Setting, conducting and marking of assessment

Controlled assessment — practical activity

This practical activity is:

- ◆ set by SQA
- ◆ conducted under some supervision and control

Evidence will be internally marked by centre staff in line with SQA Marking Instructions.

All marking will be quality assured by SQA.

Setting the assessment

Set by SQA.

Conducting the assessment

Conducted under some supervision and control.

A bank of practical activities will be provided and there will be a choice from the bank.

The practical activity will be carried out under supervised conditions, to ensure that the work presented is the learner's own work.

The assessor may also give learners support and guidance to help them progress through each stage of the practical activity; where a significant amount of support is provided, this should be reflected in the marks awarded.

While the learner may be provided with feedback to help them achieve the next stage of the assessment, they are not allowed to be re-assessed on stages already completed.

Further mandatory information on Course coverage

The following gives details of mandatory skills, knowledge and understanding for the National 5 Practical Woodworking Course. Course assessment will involve sampling the skills, knowledge and understanding. This list of skills, knowledge and understanding also provides the basis for the assessment of Units of the Course. When preparing learners for the Course assessment, please refer first to the 'Structure and coverage of the Course assessment' section.

Application of the knowledge, processes and skills related to the following, as appropriate:	
Measuring and marking out	<p>Rule, tape measure, try- square, marking gauge, templates, marking knife, mortise gauge, cutting gauge, sliding bevel, dove-tail template, outside calipers.</p> <p>Units of measurement</p>
Reading and interpreting drawings and documents	<p>Working drawings, pictorial drawings, diagrams, cutting lists</p> <p>Knowledge and understanding of orthographic projection scale, dimensioning (linear, angular (45°) and ratio dimensioning, radial and diameter) and basic drawing conventions including: line types, centre lines and hidden detail.</p>
Materials	<p>Softwoods (white and red pine, cedar and larch)</p> <p>Hardwoods (ash, oak, beech, mahogany/meranti)</p> <p>Manufactured boards and veneered manufactured boards (chipboard, plywood, MDF and blockboard)</p>
Bench work	<ul style="list-style-type: none"> ◆ saws (tenon, coping, rip, cross-cut and panel) ◆ chisels (bevelled edge, mortise and firmer) ◆ mallet ◆ hammers ◆ pincers ◆ planes (jack, smoothing, plough, bull-nose, rebate, combination) ◆ hand drills and braces ◆ screwdrivers ◆ sawing board/bench hook ◆ hand router ◆ spoke shave ◆ bradawl ◆ other common bench tools <p>Knowledge and understanding of tool care and maintenance: reporting faults, setting a plane, honing a chisel, honing a plane iron.</p>
Cramping	<ul style="list-style-type: none"> ◆ cramps (sash, G, quick release, mitre, band) ◆ string and block ◆ other cramping devices

Flat-frame jointing techniques	<p>Flat-frame joints:</p> <ul style="list-style-type: none"> ◆ butt ◆ various corner (including mitre) ◆ various 'T' joints ◆ various halving joints (including cross) ◆ mortise and tenon (stub, through and haunched) ◆ dowel ◆ bridle <p>Selecting appropriate joint types for given scenarios</p>
Carcase jointing techniques	<p>Carcase joints:</p> <ul style="list-style-type: none"> ◆ butt ◆ corner rebates ◆ through housing ◆ stopped housing ◆ dowel <p>Selecting appropriate joint types for given scenarios.</p>
Mechanical fixing and adhesive bonding	<p>Common nails (round and oval brad), pins, screws (roundhead and countersunk)</p> <p>Proprietary flat-frame fixings</p> <p>Proprietary carcase construction fixings</p> <p>Knock down fixings</p> <p>Proprietary wood adhesives and glues (interior and exterior)</p>
Machining and finishing	<p>Machine tools:</p> <ul style="list-style-type: none"> ◆ woodwork lathes (face plate turning and between centres) ◆ lathe tools — forked/butterfly centre, dead centre, revolving centre, face plate, gouge, scraper, parting chisel ◆ parts of the lathe — bed, tailstock, tool rest, headstock ◆ belt or disc sander ◆ pedestal drill ◆ mortising machine <p>Power tools:</p> <ul style="list-style-type: none"> ◆ hand-held drills ◆ sanders ◆ screwdrivers <p>Knowledge and understanding of tool care and maintenance:</p> <ul style="list-style-type: none"> ◆ reporting faults and fault reporting systems ◆ inspecting cables, tool holding, guards ◆ confirmation of dust extraction operations

Surface preparation and finishing	Wood preparation techniques: planing, sanding, scraping, stopping and filling Finishing techniques: varnishing, staining, waxing, oiling (Danish, linseed, vegetable oils)
Safe working practices	Good practices and safe systems for general workshop and individual activities as appropriate Personal Protective Equipment
Recycling and sustainability	Best practice in selecting materials appropriate for use Understanding and following workshop recycling practices and processes

Administrative information

Published: April 2016 (version 1.2)

History of changes to Course Assessment Specification

Version	Description of change	Authorised by	Date
1.1	Marks changed from 100 to 80; further information and clarification on scope and structure of the practical activity given in the 'Structure and coverage of Course assessment' section; Further mandatory information' section restructured and further information added	Qualifications Development Manager	June 2013
1.2	Addition made to the evidence requirements of the practical activity in the 'Structure and coverage of the Course assessment' section. Changes made to the 'Further mandatory information on Course coverage' section.	Qualifications Manager	April 2016

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