



National Unit specification

General information

Unit title: Develop Constructional Carpentry Skills (SCQF level 5)

Unit code: F1L0 11

Superclass: TG

Publication date: April 2016

Source: Scottish Qualifications Authority

Version: 02

Unit purpose

This Unit is suitable for learners who have little or no experience of constructional carpentry. The Unit require the learner to set out and erect a hollow timber ground floor, stud partitioning and to complete a job card. The work throughout will be based on recognised craft practices including working in an organised and safe manner. Learners who achieve this Unit should feel confident in progressing to other Units demanding higher level skills in this area when the range and level of work will be greater.

Outcomes

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

- 1 Install a hollow timber ground floor.
- 2 Install a trade service hatch in the timber ground floor.
- 3 Construct and erect a timber stud partition.
- 4 Complete a job card.

Credit points and level

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

Recommended entry to the Unit

Whilst entry is at the discretion of the centre, it would be beneficial for the learner to have attained the following of equivalent:

- ◆ an aptitude for craft skills
- ◆ some prior practical experience (eg Skills for Work Construction Crafts)

National Unit specification: General information (cont)

Unit title: Develop Constructional Carpentry Skills (SCQF level 5)

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.

National Unit specification: Statement of standards

Unit title: Develop Constructional Carpentry Skills (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

Install a hollow timber ground floor.

Performance Criteria

- (a) Set out the wallplate in accordance with the drawing and specification.
- (b) Measure, cut and secure joist in accordance with the specification.
- (c) Label the work personally undertaken clearly.

Outcome 2

Install a trade service hatch in the timber ground floor.

Performance Criteria

- (a) Position and fix a service hatch in accordance with working drawing and specification.

Outcome 3

Erect timber stud partitioning.

Performance Criteria

- (a) Set out the head and sole plates in accordance with the drawing and specification.
- (b) Cut, position and fix components in accordance with the drawing and specification.

Outcome 4

Complete a job card.

Performance Criteria

- (a) List the members of the group accurately.
- (b) List all timber components used, naming them correctly.
- (c) Insert the exact length, width and thickness of components used correctly.
- (d) List accurately, the tools and equipment used.
- (e) Record the exact time spent on the project in hours.
- (f) Describe clearly the work activities undertaken.

National Unit specification: Statement of standards (cont)

Unit title: Develop Constructional Carpentry Skills (SCQF level 5)

Evidence Requirements for this Unit

Learners must adhere to relevant Health and Safety regulations and legislation relating both to working practices within the construction environment, as well as those specific to any practical task they are requested to carry out (such as emphasising the importance of selecting and using the correct PPE at all times).

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

Performance evidence supplemented with an assessor observation checklist/record should be used to show that the learner has achieved Outcomes 1, 2 and 3 to the standard specified in the Outcomes and Performance Criteria. Each learner will be observed to show that they can achieve the following throughout the delivery of the Unit:

- ◆ participate effectively and harmoniously as part of a group in setting out and installing a suspended timber ground floor having a minimum span of 2.000 metres supported through its centre (minimum joist 38x100 mm)
- ◆ participate effectively and harmoniously in setting out and installing a trade service hatch in a timber ground floor meeting the requirements of the drawing specification
- ◆ participate effectively as part of a group in setting out and erecting timber stud partitioning having a minimum height of 1.400 metres above the floor level (minimum studs 38 x 63 mm)
- ◆ comply with the tolerances as set out below.

Outcome 1

Wallplate set out to joist positions	within 6 mm
Joists positioned and fixed to positional marks	within 5 mm
Joists positioned and fixed with cambers uppermost	
Cheek nailed securely	without undue splitting
Temporary retention straps nailed to ground floor joists	stitched
Solid strutting fixed tight and secure to floor joists	
Minimum joint deflection	within 4 mm

Outcome 2

Trade service hatch set out to position	within 10 mm
Hatch cover to be fitted	within 4 mm
Hatches to be easily removed	
Countersink screw heads below surface	
Hatch to be square	Within 6 mm

National Unit specification: Statement of standards (cont)

Unit title: Develop Constructional Carpentry Skills (SCQF level 5)

Outcome 3

Head and sole plate set out to positions	within 10 mm
Studs positioned and fixed to positional marks	within 5 mm
Studs fixed with cambers in harmony	without undue splitting
Studs nailed flush with head and sole plates	within 2 mm
Partition fixed plumb between head and sole plate	within 3 mm per m
Dwangs fitted to position with no deflection of studs	exceeding 4 mm
Joints no gaps	exceeding 3 mm
Formation of openings width and height	within 8 mm larger

Materials for this Unit will be include:

- ◆ white pine tongue and groove flooring or chipboard flooring
- ◆ CLS or other softwood having similar working characteristics for partition
- ◆ white pine or other softwood having similar working characteristics for joists and wall plates

Written and/or oral evidence is required which demonstrates that the learner has achieved Outcome 4 to the standards specified in the Outcome and Performance Criteria. The evidence for this Outcome should be obtained through the completion of a job card detaining materials, tools and work activity for the practical work in Outcomes 1, 2 and 3

Assessment of this Unit should be completed over a period of time and evidence should be gathered at appropriate intervals.



National Unit Support Notes

Unit title: Develop Constructional Carpentry Skills (SCQF level 5)

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 40 hours.

Guidance on the content and context for this Unit

This Unit has been developed as an optional Unit in the National Progression Award in Construction and can also be delivered as a freestanding Unit.

This Unit is designed to develop the learner's skills in carpentry and joinery with particular focus on the installation and erection of constructional carpentry. The Unit will focus on setting out, installing and erecting suspended timber ground floors, timber stud partitioning and the compilation of a job card associated with an area of the work.

Underpinning the practical work is the need ensure the learner appreciates the reasons for carrying out the practical work in the manner directed and the reasons for using specific tools, materials, components and equipment.

Outcome 1

This Outcome will introduce the learner to the construction of hollow ground floors when emphasis will be placed on setting out and installing accurately including methods such as, centre to centre, in and over, running dimensions and installing joists with cambers uppermost. General design factors such as intermediate supports to reduce the depth of joist and recognised practice in the prevention of dry rot should be touched on when an in-depth study of this area is beyond the scope of this Outcome.

Outcome 2

This Outcome will introduce the learner to the construction of different types of service hatch where emphasis will be placed on setting out and installing accurately to include general design factors such as battens, to join tongue and groove boards together, traps cut with tongues removed and screw fixings facilitate removal without damage, different styles of service hatches should be touched on when an in-depth study of this area is beyond the scope of this Outcome.

National Unit Support Notes (cont)

Unit title: Develop Constructional Carpentry Skills (SCQF level 5)

Outcome 3

This Outcome will introduce the learner to the construction of timber stud partitioning when emphasis will be placed on setting out and erecting accurately including the requirement for determining the spacing of studs. Methodology, in sighting the studs to ensure cambered studs are in harmony with one another and, in plumbing and straightening the partition should gain particular focus. Materials used in cladding and the arrangement of components at openings, junctions and corners should be explored.

Outcome 4

This Outcome will introduce the learner to job cards and their place in the industry. A job card will be presented to the learner at the commencement of the Unit and will be completed as an ongoing activity of the above Outcomes only.

Guidance on approaches to delivery of this Unit

The learner could be guided to accurate methods of, setting out, installation, erection and techniques related to plumbing levelling and straightening. Safe methods of handling, transporting and cutting long lengths of timber including working in pairs and the positioning of material when using joiner's stools should be emphasised. Simulated walling could be constructed using short studs with top and bottom runner when setting out could be covered and assessed. This practice may also assist with work flow when large working groups are involved. Recognised working practices should be fully explained, demonstrated and practiced.

Guidance on approaches to assessment of this Unit

Centres may use the method of assessment which they consider to be most appropriate but are encouraged to use the Training Assessment Programme (TAP) developed centrally by SQA. It is expected that learners will have to demonstrate current knowledge and understanding of safe working practice and risk assessment methods, etc prior to being set the assessment tasks.

Knowledge and Understanding of the processes involved in *Develop Constructional Carpentry Skills (SCQF level 5)* should be assessed before any practical assignments are carried out by learners. This will include assessment of a learner's ability to prepare the work area for laying modular pavement.

Practical assignments should be carried out under supervised conditions and recorded in an assessor observation/operational checklist. Assessments should confirm that a learner has the ability to safely lay modular pavement using designated machinery or equipment correctly and safely, whilst adhering to current statutory Health and Safety regulations and legislation.

Adherence to current statutory working regulations and Health and Safety procedures will be observed during the practical exercise carried out by the learner towards all Outcomes.

National Unit Support Notes (cont)

Unit title: Develop Constructional Carpentry Skills (SCQF level 5)

Detailed assessment material for this Unit will be found in the relevant Training and Assessment Programme (TAP). Centres may use the instruments of assessment which they consider to be most appropriate but are advised to use the TAP which has been developed centrally by SQA. Any other instruments of assessment used must be comparable to the TAP and have been prior verified.

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.

Opportunities for developing Core and other essential skills

The elements of the Core Skill of *Problem Solving*, such as Planning and Organising and Critical Thinking will be developed and enhanced as learners undertake this Unit. Learners will need to take account of a range of factors in order to work efficiently and safely, such as the choice of tools, appropriate materials, safety issues, safety equipment and sustainability. Individual discussions with assessors will enhance the evaluation of efficient working practices.

There are opportunities for learners to develop co-operative working skills, as they are required at all times to comply fully with health and safety requirements, which includes being aware of the safety of others, as well as themselves. Also learners are expected to work safely and harmoniously in groups and/or pairs during practical activities in preparation for teaching and learning assessments.

Opportunities also arise for learners to develop the Core Skill of *Information and Communication Technology (ICT)* by researching Health and Safety legislation affecting their area of work.

Numeracy skills will be naturally enhanced through the practical use of interpreting information from specifications, calculation and measuring scales required in the teaching and learning assessments for Outcomes 1 and 3.

Although *Communication* skills are not formally assessed, as learners complete practical tasks, they should be expected to communicate with others using the correct terminology, tone and style suited to the workplace. There are opportunities to develop Written Communication skills to the standard required in the workplace in the teaching and learning assessments for Outcome 4.

History of changes to Unit

Version	Description of change	Date
02	Clarification of Standards and updated to new Unit Specification Standard.	29/04/16

© Scottish Qualifications Authority 2007, 2016

This publication may be reproduced in whole or in part for educational purposes provided that no profit is derived from reproduction and that, if reproduced in part, the source is acknowledged.

Additional copies of this Unit specification can be purchased from the Scottish Qualifications Authority. Please contact the Business Development and Customer Support team, telephone 0303 333 0330.

General information for learners

Unit title: Develop Constructional Carpentry Skills (SCQF level 5)

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.

This Unit is designed to develop your skills in carpentry and joinery with particular focus on the installation and erection of constructional carpentry. The Unit will focus on setting out, installing and erecting suspended timber ground floors, timber stud partitioning and the compilation of a job card associated with an area of the work.

You will also be provided with the knowledge to allow you to appreciate the reasons for carrying out the practical work in the manner directed and the reasons for using specific tools, materials, components and equipment.

Health and Safety and Sustainability are integral and key to the Construction Industry therefore throughout the Unit emphasis will be placed where appropriate on the application of Health and Safety and Sustainability. Safety working practices will be looked at in accordance with current safety codes of practice and regulations.

There will be a series of training exercises followed by some practical task based assessment and multi choice knowledge assessment. Completion of the Unit will provide you with the basic skills necessary to enable you to progress to more complex aspects of Carpentry and Joinery which in turn will further develop your skills and knowledge.

The elements of the Core Skill of *Problem Solving*, such as Planning and Organising and Critical Thinking will be developed and enhanced as learners undertake this Unit. Learners will need to take account of a range of factors in order to work efficiently and safely, such as the choice of tools, appropriate materials, safety issues, safety equipment and sustainability.

There are opportunities to develop co-operative working skills. You will also be required to comply fully with health and safety requirements which gives you opportunities to develop awareness of the safety of others.

Opportunities also arise to develop the Core Skill of *Information and Communication Technology (ICT)* by researching Health and Safety.

Numeracy skills will be naturally enhanced through the practical use of calculation and measuring scales and although *Communication* skills are not formally assessed, as you complete practical tasks, you may be expected to communicate with others using the correct terminology, tone and style suited to the workplace.