



National Unit specification: general information

Unit title: Carpentry and Joinery: First Fixing (SCQF level 6)

Unit code: H0RH 12

Superclass: TG

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Summary

This Unit is suitable for candidates working towards a Modern Apprenticeship in Carpentry and Joinery and will develop the candidates craft skills in first fixings. This Unit is designed to provide candidates with competence in the use of tools and equipment to prepare walls and openings with the ability to apply these skills in the workplace. It is also designed to enable candidates to develop their knowledge and understanding in carpentry and joinery terminology, techniques and practices.

Outcomes

- 1 Demonstrate knowledge and understanding of the practical applications of a range of first fixings.
- 2 Position and fix walls and enclosures to receive finishings.
- 3 Position and secure a door lining/frame into an opening.

Recommended entry

While entry is at the discretion of the centre, candidates undertaking the Professional Development Award in Carpentry and Joinery at SCQF level 6 must meet the requirements of the Modern Apprentices which include being employed in the relevant craft industry.

Credit points and level

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

**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.*

General information (cont)

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Core Skills

Achievement of this Unit gives automatic certification of the following:

Complete Core Skill None

Core Skill component Critical Thinking @ SCQF level 4

There are also opportunities to develop aspects of Core Skills which are highlighted in the Support Notes of this Unit Specification.

National Unit specification: statement of standards

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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

Demonstrate knowledge and understanding of the practical applications of a range of first fixings.

Performance Criteria

- (a) Define first fixing terminology correctly.
- (b) Describe constructional procedures in the provision of first fixings correctly.
- (c) Explain methods of fixing to a range of materials correctly.

Outcome 2

Position and fix walls and enclosures to receive finishings.

Performance Criteria

- (a) Set out and fix grounding in accordance with the given specification.
- (b) Set out and fix service enclosure in accordance with the given specification.
- (c) Comply with current health and safety regulations in all activities.

Outcome 3

Position and secure a door lining/frame into an opening.

Performance Criteria

- (a) Position door lining/frame in accordance with the given specification.
- (b) Fix door lining/frame in accordance with the given specification.
- (c) Comply with current health and safety regulations in all activities.

National Unit specification: statement of standards (cont)

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Evidence Requirements for this Unit

Evidence is required to demonstrate that the candidates have achieved this Unit to the standard specified in all the Outcomes and Performance Criteria. All working practices must be in line with relevant and current Health and Safety legislation and regulations. A Risk Assessment and Method Statement must be completed prior to any practical activities taking place.

Written and/or oral evidence is required which demonstrates the candidates understanding of the constructional procedures for applications of grounding, frameworks and components relating to first fixing, sustainability and the control of waste. Evidence for this Outcome will be obtained under closed-book supervised conditions.

Product and performance evidence supplemented with an assessor observation checklist should be used to show that the candidate has achieved Outcomes 2 and 3 to the standard specified in the Performance Criteria. Performance evidence is required to show the candidate can participate effectively in the production of grid framework grounding and framework to enclosures.

Summary of standards (working towards industrial tolerances)

Grounding to a grid

- ◆ Grounds correctly positioned
- ◆ Grounds level/plumb ± 2 mm per metre
- ◆ Grounds flat/in-line ± 2 mm from string line

Encasing services (pipes and cables)

- ◆ panels scribed to walls with no gaps exceeding 2 mm.
- ◆ panels securely fixed in position
- ◆ fixed and free from defects that cannot be rectified

Fixing door linings

- ◆ Lining fixed to required datum ± 3 mm
- ◆ Lining positioned to suit final wall finish ± 2 mm
- ◆ Face and edge of lining jambs plumb ± 2 mm in height
- ◆ Lining fixed free of twist/wind and no bows exceeding 2 mm
- ◆ Lining securely fixed and free from defects that cannot be rectified

Fixing frames

- ◆ Frame fixed to required datum ± 3 mm
- ◆ Frame positioned to suit final wall finish ± 2 mm
- ◆ Face and edge of frame jambs plumb ± 2 mm in height
- ◆ Frame fixed free of twist and no bows exceeding 2 mm
- ◆ Frame securely fixed and free from defects that cannot be rectified

These Evidence Requirements will be met by the completion of the Carpentry and Joinery Training and Assessment Programme (TAP) that provides detailed assessment material for this Unit.

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 in the Professional Development Award in Carpentry and Joinery at SCQF level 6, which is a mandatory component of the Modern Apprenticeship in Carpentry and Joinery.

The successful completion of this Unit will provide candidates with the required underpinning knowledge and skills relating to, the terminology, and practical applications of a range of first fixings. The Unit would be offered to candidates from the construction and related services industries. The skills and knowledge and understanding are transferable within different working environments but the Unit is primarily aimed at candidates whose normal place of work would be a site, workshop, or similar environment.

The Unit deals with the provision of first fixing including grounding and fixing components to openings, and is complemented by Units dealing with related work in Carpentry and Joinery. The practical activity could include the use of woodworking machines, portable power tools, cordless power tools. This provides opportunities for aspects of this Unit to be integrated with *Carpentry and Joinery: Woodworking Machine Skills* (SCQF level 6) and *Woodworking Power Tool Skills*. (SCQF level 6). The competences and underpinning knowledge gained in successfully completing this Unit would be transferable across a range of related disciplines. It should be delivered as part of a structured programme of training and orientated to the context of the candidate's work and area of responsibility.

Health and Safety, Sustainability, and control of waste 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 should be looked at in accordance with current safety codes of practice and regulations. Sustainability should include reference to criteria affecting sustainability, impact of not implementing sustainability on the environment and the legislation promoting sustainability.

Terminology and components could include those indicated below:

Materials: brick; block; concrete; steel; timber, stone.

Groundings: for plasterboard; claddings; sawn and dressed; splayed and hooked; skirtings; openings; jointing to door frame; treatment for insect and fungal attack.

Frameworks: enclosures to columns; beams; services; provision of openings.

Components: positioning of door frames, in relation to surface finishes and DPCs and joints in door frames and hatches. Types of fixings: frame fixings, chemical/resin anchors, nails, screws and plugs.

National Unit specification: support notes (cont)

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Methods: pattern and specification on types of fixings; straightening to line; use of datum; chalk line; spirit level; straight edge; fixing to plumb and level.

Enclosures: columns; beams; service ducts.

Guidance on learning and teaching approaches for this Unit

The candidate should be given the opportunity to further develop their skills through classroom teaching with visual aids, electronic presentations, DVDs, e-learning, reference books, classroom exercises and group discussions. The function of each component should be thoroughly demonstrated. Construction methods should be demonstrated and attempted by candidates showing good technique in measuring, marking out, nailing, plumbing, levelling, and fixing of components into position. This teaching approach should ensure the candidate is acquiring the underpinning knowledge and skills required for the Unit.

Outcome 1

The candidate should be introduced to the terminology related to first fixings when the tutor/trainer may wish to use audio-visual materials and visual aids to provide a thorough explanation of related terminology. Sketching details should be encouraged to develop the candidate's skills. The importance of accuracy in the provision of first-fixings should be stressed in terms of levelling, straightening and fixing. Sequencing of operations should also be emphasised.

Outcome 2

The candidate will be presented with workshop drawings and summary of standards for grounds and enclosures, outlining the demands of the practical exercise. Group discussion on manufacturing and assembly procedures with particular emphasis on safe working practices should assist the candidate in gaining the necessary competences.

Outcome 3

The candidate will be presented with a workshop drawing to outlining the demands of the practical exercise. A separate summary of standards for the fixing of the door lining or frame should be given to the candidate. The tutor/trainer should demonstrate the correct methods to be employed to achieve the Outcome with an emphasis on safe working practices and sequencing of operations.

Where appropriate, opportunities should be taken throughout delivery of this Unit to meet the requirements of the generic Units of the Training and Assessment Programme including:

- ◆ *Conform to Productive Working Practices*
- ◆ *Conform to General Workplace Health, Safety and Welfare*
- ◆ *Move, Handle and Store Resources*
- ◆ *Confirm Work Activities and Resources for the Work*
- ◆ *Develop and Maintain Good Working Relationships*
- ◆ *Confirm the Occupational Method of Work*

National Unit specification: support notes (cont)

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Guidance on approaches to assessment for this Unit

The Carpentry and Joinery Training and Assessment Programme (TAP) provides detailed assessment material for this Unit. It is 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 through prior verification. It is expected that candidates will be given as much practise as possible, prior to being set assessment tasks.

The candidates' knowledge and understanding of terminology and components in relation to first fixing could be assessed through a multiple choice question paper and a closed-book written assessment.

A series of practical activities will allow evidence to be gathered for Outcomes 2 and 3 through observation that the candidates have met the given standards and tolerances. An assessor observation checklist/record can be used to record this evidence.

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 social software. 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 *Problem Solving*. Candidates 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, correct use of PPE, safety issues. Safety equipment and sustainability. Individual discussions with assessors and the use of role play will enhance the evaluation of efficient working practices.

There are opportunities to develop the Core Skill of *Working with Others* at SCQF level 4, particularly in Outcomes 2, as this practical assessment, grounding to a grid, could be carried out in pairs. Candidates can agree responsibilities and provide support and information to each other during the practical group activities.

There are opportunities to develop the Core Skill of *Information and Communication Technology (ICT)* at SCQF level 3 by researching, e-learning and e-assessment.

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

National Unit specification: support notes (cont)

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

This Unit has the Critical Thinking component 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.

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

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