

National Unit Specification: general information

UNIT Construction Crafts: One Brick Walling (Intermediate 2)

CODE DX0L 11

COURSE Construction Crafts (Intermediate 2)

SUMMARY

This Unit is a mandatory Unit in the *Intermediate 2 Construction Crafts Course* and is designed to be taken as part of this Course.

This Unit is suitable for candidates with no previous brickwork experience and may also provide progression for candidates who have successfully completed the *Intermediate 1 Construction Crafts Course* or Units.

The Unit is based on practical workshop activities such as selecting and maintaining tools, measuring and setting out brickwork and building short lengths of one-brick walls. Candidates will learn how walls of one brick thick are bonded. They will have to carry out practical work employing at least one of the standard one-brick bonds. These are more complex than those involved with half-brick walling.

Candidates studying this Unit will also develop safe working practices and general skills and attitudes which will enhance employability.

Candidates who achieve this Unit should feel confident in widening their experience in brickwork by taking other Intermediate 2 Units in this trade area.

OUTCOMES

- 1 Select, use and maintain basic bricklaying tools and equipment.
- 2 Measure and set out one brick walls.
- 3 Build one brick walls.

Administrative Information

Superclass: TG

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National Unit Specification: general information (cont)

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RECOMMENDED ENTRY

While entry is at the discretion of the centre, it would be beneficial for candidates to have attained the following Unit or equivalent:

- ◆ *Intermediate 1 Construction Crafts: Half-Brick Walling Unit*
- ◆ *Intermediate 1 Construction Crafts: Brickwork Techniques Unit*

CREDIT VALUE

1 credit at Intermediate 2 (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.*

CORE SKILLS

There is no automatic certification of Core Skills in this Unit.

Opportunities for developing aspects of Core Skills are highlighted in *Guidance on Learning and Teaching Approaches for this Unit*.

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 the Scottish Qualifications Authority.

OUTCOME 1

Select, use and maintain basic bricklaying tools and equipment.

Performance Criteria

- (a) Selection of tools and equipment is appropriate for the work to be done.
- (b) Tools are used in the correct manner.
- (c) Tools are used solely for the purpose which they are intended.
- (d) Tools are cleaned, maintained and stored correctly.
- (e) Health and safety requirements are complied with during all activities.

OUTCOME 2

Measure and set out one-brick thick walls.

Performance Criteria

- (a) Walls are measured accurately and to the prescribed tolerance.
- (b) Walls are marked and set out correctly.
- (c) Bonds are set out correctly.
- (d) Levels at both ends are established correctly.
- (e) Health and safety requirements are complied with during all activities.

OUTCOME 3

Build one-brick walls.

Performance Criteria

- (a) Walls are built in accordance with given working drawings.
- (b) Walls are built to the prescribed standards and tolerances.
- (c) Surplus materials are returned to store in accordance with good practice.
- (d) Health and safety requirements are complied with during all activities.
- (e) A quality check is carried out on the finished work against prescribed standards and tolerances.

National Unit Specification: statement of standards

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EVIDENCE REQUIREMENTS FOR THIS UNIT

Performance evidence is required to show that all Outcomes and Performance Criteria have been achieved.

Performance evidence will be supported by an assessor observation checklist. This evidence will be generated from an integrated assignment consisting of practical activities carried out in supervised workshop conditions. The evidence may be gathered at different points throughout the Unit. The practical activities will cover:

- ◆ choosing the correct tools and equipment for particular tasks
- ◆ using tools and equipment in a correct and safe manner, using them solely for the purpose for which they are designed
- ◆ cleaning, maintaining and storing tools and equipment correctly after use
- ◆ measuring out accurately, setting out the shape of the walls, setting out the correct bond and establishing levels at ends of the walls
- ◆ building **two** basic one-brick thick walls (of minimum height **six** courses) to stated standards and tolerances, working from information on given drawings and employing **two** from the following brick bonds: English Bond, Flemish Bond, English Garden Wall Bond and Flemish Garden Wall Bond
- ◆ returning surplus materials to store in accordance with good practice
- ◆ candidates carrying out a quality check on their own work before submitting for final assessment
- ◆ candidates maintaining a clean and tidy workplace and adhering to health and safety requirements throughout all activities

The NAB item for this Unit provides an assessor observation checklist and details of the practical assignment which exemplify the national standard. Centres wishing to develop their own assessments should refer to the NAB to ensure a comparable standard.

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

The content in this Unit covers practical brickwork activities at an introductory level. The candidate is required to develop the ability to select and use tools and equipment correctly and safely. It is therefore important that the learning takes place in a supervised workshop/site environment. Standard and site-specific safe working practices must be learned and it is important that candidates adhere to these at all times.

During the process of practical work the candidate will become accustomed to the use of brickwork terms and will be able to demonstrate knowledge and understanding of these terms in everyday practice. This will help discussions of technical matters with tutors.

The main content of the Unit will be learning the preparatory skills required in measuring, setting out and building small-scale, one-brick walls. Candidates should be taught good working practices at each stage and should learn how to carry out quality checks on their own work throughout the task and on completion.

There are a number of standard brickwork bonds that can be employed in one-brick walling. Candidates should be shown a number of these, including: English Bond, Flemish Bond, English Garden Wall Bond and Flemish Garden Wall Bond. Candidates should be given opportunity to practice building walls using each of these brick bonds which are, by nature, more complex than simple half-brick thick 'stretcher' bond.

Candidates should be encouraged to use and develop techniques suited to their own physical strength and abilities. This might include the use of small trowels to spread mortar and the use of light weight bricks (for example, London Brick (LBC) commons).

Outcome 1 requires the candidate to select tools, and to use, clean and maintain them correctly. Materials used will almost exclusively be common bricks and an appropriate mortar. It is recommended that a lime/sand mortar is employed to facilitate the reuse of materials. The bricklayers' trowel will be the prime tool that candidates will use to build the walls, but they should also learn how to use builders' line and other small tools where appropriate.

Outcome 2 entails skills in measuring and setting out for subsequent building of brick walls. This task requires the reading of drawings, use of tape measures, chalk and, where appropriate, setsquare. This task requires the calculating of the lengths of walls and transferring this information to the workshop floor. Candidates must be made aware of the tolerances that will be acceptable for this task and will be allowed to practise particular skills until they have become competent in them to the standards required.

