

National Unit Specification: general information

UNIT Bricklaying: Introduction (Intermediate 1)

NUMBER D37N 10

COURSE

SUMMARY

On completion of this unit the candidate will have the basic competence required to build elementary brickwork. The unit has been designed as a first experience of laying bricks and will provide a basis for someone who is considering a career in construction.

OUTCOMES

- 1 Identify basic bricklayers' tools.
- 2 Build a half brick plumbing to include a stopped end and racking back.
- 3 Build a straight half brick wall in stretcher bond.
- 4 Build a half brick return corner racked back at both ends.
- 5 Build and key point a decorative brickwork wall.

RECOMMENDED ENTRY

Entry is at the discretion of the centre but it should be remembered that the unit is designed to introduce the candidate to the craft of bricklaying .

CREDIT VALUE

1 Credit.

Administrative Information

Superclass: TG

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CORE SKILLS

Information on the automatic certification of any core skills in this unit is published in *Automatic Certification of Core Skills in National Qualifications* (SQA, 1999).

National Unit Specification: statement of standards

UNIT

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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

Identify basic bricklayers tools.

Performance criteria

- a) The tools are correctly identified.
- b) The purpose of each tool is correctly stated.

Note on range for the outcome

Tools: a full set of standard bricklayers' tool kit.

Evidence requirements

Please refer to *Evidence requirements for the unit* at the end of the Statement of Standards.

OUTCOME 2

Build a half brick plumbing to include a stopped end and racking back.

Performance criteria

- a) The setting out is in accordance with the given specification.
- b) The finished wall is in accordance with the given specification.
- c) The cleanliness of the work is maintained.
- d) Work methods and activities are correct in terms of:
 - i) sequencing operations;
 - ii) minimising waste of materials;
 - iii) the use and care of tools and equipment;
 - iv) satisfying current safety regulations.

Note on range for the outcome

Activities: setting out; dry bonding; measuring; gauging; plumbing; levelling; cutting half bricks; spreading mortar; building straight.

Evidence requirements

Please refer to *Evidence requirements for the unit* at the end of the Statement of Standards.

National Unit Specification: statement of standards (cont)

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OUTCOME 3

Build a straight half brick wall in stretcher bond.

Performance criteria

- a) The interpretation of technical information is correct.
- b) Setting out is in accordance with the working drawing and specification.
- c) The finished wall is in accordance with the working drawing and specification.
- d) Work methods and activities are correct in terms of :
 - i) sequencing operations;
 - ii) Minimising waste;
 - iii) the use and care of tools and equipment;
 - iv) satisfying current safety regulations.

Note on range for the outcome

Activities: setting out and building half brick walls.

Evidence requirements

Please refer to *Evidence requirements for the unit* at the end of the Statement of Standards.

OUTCOME 4

Build a half brick return corner raked back at both ends.

Performance criteria

- a) The setting out is in accordance with the working drawing and specification.
- b) The finished wall is in accordance with the working drawing and specification.
- c) The cleanliness of the work area is maintained.
- d) Work methods and activities are correct in terms of:
 - i) sequencing operations;
 - ii) minimising waste of materials;
 - iii) the use and care of tools and equipment;
 - iv) satisfying current safety regulations.

Note on range for the outcome

Activities: setting out and building return corners.

National Unit Specification: statement of standards (cont)

UNIT Bricklaying: Introduction (Intermediate 1)

Evidence requirements

Please refer to *Evidence requirements for the unit* at the end of the Statement of Standards.

OUTCOME 5

Build and key point a decorative brickwork wall.

Performance criteria

- a) The setting out is in accordance with the working drawings and specification.
- b) The finished wall is in accordance with the working drawing and specification.
- c) The cleanliness of the work area is maintained.
- d) Work methods and activities are correct in terms of:
 - i) sequencing operations;
 - ii) minimising waste of materials;
 - iii) the use and care of tools and equipment;
 - iv) satisfying current safety regulations.

Note on range for the outcome

Activities: setting out, building and pointing decorative brickwork.

Evidence requirements

Please refer to *Evidence requirements for the unit* at the end of the Statement of Standards.

EVIDENCE REQUIREMENTS FOR THE UNIT

Outcome 1

Written or oral evidence is needed to show that the candidate can name all of the tools and state the correct ones for given tasks.

All working practices must be in line with current relevant health and safety legislation and regulations.

All the performance criteria must be met and all items in the range statement covered.

Outcome 2

Practical evidence in the form of a wall is needed to show the candidate has met all the PCs by setting out and building a half brick plumbing in stretcher bond and achieving all items selected from the checklist.

All working practices must be in line with current relevant health and safety legislation and regulations.

National Unit Specification: statement of standards (cont)

UNIT Bricklaying: Introduction (Intermediate 1)

All the performance criteria must be met and all items in the range statement covered.

Outcome 3

Evidence in the form of a wall is needed to show the candidate can meet all the PCs by setting out and building a half brick wall and achieving all items selected from the checklist.

All working practices must be in line with current relevant health and safety legislation and regulations.

All the performance criteria must be met and all items in the range statement covered.

Outcome 4

Evidence in the form of a wall is needed to show the candidate meet all the PCs by setting out and building a half brick plumbing in stretcher bond and achieving all items selected from the checklist.

All working practices must be in line with current relevant health and safety legislation and regulations

All the performance criteria must be met and all items in the range statement covered.

Outcome 5

Evidence in the form of a wall is needed to show the candidate meet all the PCs by setting out and building a decorative wall and achieving all items selected from the checklist.

All working practices must be in line with current relevant health and safety legislation and regulations

All the performance criteria must be met and all items in the range statement covered.

National Unit Specification: support notes

UNIT Bricklaying: Introduction (Intermediate 1)

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 candidate successfully completing this unit will have acquired the first basic competences of the bricklaying craft.

This unit would be offered to candidates who may be interested in pursuing a career in construction. The skills are transferable within different working environments but the unit is primarily aimed at candidates whose interest lies in the trowel skills area.

The range statement is applicable to all areas of construction and other related or similarly structured industries. The competencies and underpinning knowledge gained in successfully completing this unit would be transferable across a range of related disciplines.

The following information may be helpful with regard to specific outcomes:

Outcome 1

The candidate should be introduced to a full set of bricklaying tools and the lecturer may demonstrate the correct use of each tool. At this stage it is important that the candidate is shown how to handle tools with regard to health and safety.

Outcomes 2, 3,& 4.

The candidate will be introduced to the principle of building a plumbing at each end of a straight end of wall. The principles of building to straight, level, plumb, and gauge will be established at this stage. The candidate should be provided with the required building materials, a working drawing with a specification for the walls, and an outline of the demands of the practical exercise with the performance criteria. The candidate should be introduced to the marking schedule prior to commencing work and be made fully aware that there are national standards and tolerances to work towards.

Outcome 5.

The candidate will be presented with a range of decorative walls from which he/she will select which one they are opting to build. They will then proceed under the same parameters as outcomes 2,3,&4 above.

The following safety requirements apply: HSA (Health and Safety at Work etc) Act; COSHH (Control of Substances Hazardous to Health) Regulations.

(b) Correct tools for given task

6 questions

National Unit Specification: support notes (cont)

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OUTCOME 2

The candidate will be given a working drawing and specification for a racked back plumbing. The lecturer will instruct the candidate on the demands of the performance criteria and the walls to be built must be of reasonable practical dimensions therefore the following specification should be regarded as minimum. The candidate should be made aware that assessment is continuous and therefore is based on both the quality of the end product and the methods used during construction.

SPECIFICATION

Minimum length of first course	0.890 m (4 brick)
Minimum height	0.600 m (8 course)

OUTCOME 3

The candidate will be given a working drawing and specification for a straight length of half brick walling and whenever possible candidates should work in pairs for this outcome. The walls must be of reasonable practical dimensions and the candidate once again informed that the assessment is continuous.

Minimum length of wall	2.690m (12 brick)
Minimum height	0.600m (8 courses)

If for some reason candidates have to work alone on this outcome the wall length may be reduced accordingly but the minimum height of 8 courses must be maintained.

OUTCOME 4

The candidate will be given a working drawing and specification for a half brick return corner with racking back at both ends and the corner must be to a reasonable working length and height.

Minimum length of return corner	0.890m x 1002.5m (4 bricks x 4.5 bricks)
Minimum height	8 courses)

OUTCOME 5

The candidate will be presented with working drawings of a range of decorative brickwork walls and will choose his /her practical project for the outcome. The range to choose from will include (a) Length of wall with a honeycomb feature. (b) A gate pillar. (c) Length of wall with soldier courses. (d) A simple bird bath with corbells. (e) Brick base for a park seat. (f) A simple arch.

National Unit Specification: support notes (cont)

UNIT Bricklaying: Introduction (Intermediate 1)

SPECIFICATION CHECKLIST FOR OUTCOMES 2,3,4,&5

Setting out	+ or - 15mm
Gauge	+ or - 10mm
Level	+ or - 10mm
Plumb	+ or - 10mm
Joint thickness	+ or - 5mm
Bed thickness	+ or - 5mm
Face plane	+ or - 10mm
Corner square	+ or - 8mm
Beds & Joints	Full (no holes or gaps)
Brick faces	Clean (few mortar smudges)
Round key	Neat and regular

This specification can be used as a basis for setting national standards to be applied as appropriate at each of the 4 outcomes.

SPECIAL NEEDS

This unit specification is intended to ensure that there are no artificial barriers to learning or assessment. Special needs of individual candidates should be taken into account when planning learning experiences, selecting assessment instruments or considering special alternative outcomes for units. For information on these, please refer to the SQA document *Guidance on Special Assessment and Certification Arrangements for Candidates with Special Needs/Candidates whose First Language is not English* (SQA, 1998).