

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

**Hanover House
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NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- 0065642 -Session-1986-87
-Superclass- TG

-Title- INTRODUCTORY TROWEL SKILLS: WALLING

-DESCRIPTION-

Type and Purpose A general module which enables the student to acquire the basic tool skills needed to build short lengths of walling. It could also assist the student in making a career choice.

Preferred Entry Level No formal entry qualifications.

Learning Outcomes The student should:

1. identify a range of bricks and blocks;
2. select and maintain basic bricklaying tools;
3. know the appropriate bricks, blocks and mortar strengths suited to particular situations;
4. interpret simple working drawings, measure and set out brick and block projects;
5. build and key point brickwork and blockwork for three of the exercises listed in content;
6. comply with regulations and procedures and use safe working practices specified for equipment and work areas.

Content/ Context	Corresponding to the Learning Outcomes:
	1. identifying: <ul style="list-style-type: none">(a) two types of common bricks, eg. clay and concrete;(b) two types of facing bricks, eg. dapple light and rustic;(c) one type of engineering brick, eg. Staffordshire blue;(d) one type of precast concrete screenblock, eg. porto.
	2. <ul style="list-style-type: none">(a) selecting basic tools, eg. bedding trowel, brick hammer, club hammer, bolster, spirit level and chalk line;(b) maintaining basic tools, eg. cleaning mortar from tools on completion of work, checking spirit level for accuracy in plumb and level by noting reading in first position, reversing level looking for the same reading in the second position.
	3. <ul style="list-style-type: none">(a) retaining wall in a garden: engineering brick built with 1:3 cement/sand mortar;(b) screen wall in a garden: screen blocks built with 1:4 cement/sand mortar;(c) external wall of a garage: common brick built with 1:5 cement/sand mortar;(d) external wall of a house: facing brick built with 1:4 cement/sand mortar;(e) a damp proof course of a house: engineering brick built with 1:2 cement/sand mortar.
	4. <ul style="list-style-type: none">(a) interpreting simple working drawings, eg. plans of first and second courses;(b) measuring and setting out projects using rule and builder's square.
	5. <ul style="list-style-type: none">(a) short length of wall (2m x 1.25m x 100mm) with attached piers;(b) short length of wall to include a honeycomb pattern;(c) gate pillars;(d) screen wall (1.8m x 1.8m x 90mm) built with concrete blocks;

- (e) isolated piers with extended footings;
 - (f) short length of wall to include simple decorative pattern;
 - (g) a simple bird bath incorporating elementary corbelling;
 - (h) brick or block base for a park seat.
6. Safety, safe practices and care in use of equipment should be an integral part of all module activities.

Suggested Learning and Teaching Approaches

This should be a workshop or project area based module in which students can work singly or in pairs. The work should be of an elementary standard and should be set with a view to motivating the student.

The transferable skills of cutting, measuring, mixing, levelling and plumbing should be strongly emphasised. Demonstration of all practical activities should be given initially by the lecturer. Profiles could be used to assist the student to build to gauge, plumb an level.

Assessment Procedures

All learning outcomes must be validly assessed.

The student must be informed of the tasks which contribute to summative assessment. Any unsatisfactory aspects of performance should. If possible, be discussed with the student as and when they arise.

Acceptable performance in module will be satisfactory achievement of the performance criteria specified for each learning outcome.

The following abbreviations are used below:

LO Learning Outcome

IA Instrument of Assessment

PC Performance Criteria

LO1
- 2

IA Practical exercise for each LO.

PC The student correctly:

LO1

identifies a common brick, facing brick, ,engineering brick, a precast concrete screen block, and a common building block.

LO2

selects and maintains the basic tools listed in content 2.

- LO3 IA Short answer exercise.
- PC The student correctly:
- describes the appropriate bricks, blocks and mortar strengths for five different situations.
- LO4
- 5 IA Practical exercise and observation checklist for each LO.
- PC The student to an acceptable standard and in an agreed time where appropriate, correctly:
- LO4 measures and sets out given brick and block exercises.
- LO5 completes three exercises from the list given in content.
- LO6 IA Observation checklist in conjunction with practical activities.
- PC The student consistently:
- (a) wears all necessary clothing and equipment;
- (b) behaves in a manner appropriate to the working environment;
- (c) uses tools and equipment safely.