

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

**Hanover House
24 Douglas Street
GLASGOW G2 7NG**

NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- 0065600 -Session-1986-87

-Superclass- TG

-Title- GENERAL BUILDING: PATHS AND PAVING

-DESCRIPTION-

Type and Purpose A general module which enables the student to acquire the basic skills needed to lay paths and pavings.

Preferred Entry Level No formal entry qualifications.

Learning Outcomes The student should:

1. know the materials suitable for constructing paths and paved areas;
2. read and interpret basic working drawings;
3. set out paths and paved areas;
4. handle transport and position materials safely;
5. construct pathways and paved areas using simple equipment;
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 materials commonly used to lay paths and paved areas, e.g. concrete, concrete slabs, stone, brick, gravel and tarmac.
2. reading, interpreting and extracting details from simple working drawings.

3. setting out a short 2m length of path and small paved area of at least 4 m by:
 - (a) determining the commencing level by placing a datum peg and transferring appropriate levels by straightedge and spirit level;

marking perimeters at ground level by using a sharp tool, e.g. a pick, along a pre-set line;
 - (c) excavating the soil to a pre-determined level within the perimeters marked out;
 - (d) placing and fixing formwork to appropriate level and falls.
4. handling, transporting, stockpiling and stacking materials in accordance with trade practice with a view to security, protection from the elements and safety.
5. constructing pathways and paved areas by:
 - (a) identifying and distinguishing the following techniques:
 - (i) bedding;
 - (ii) compacting;
 - (iii) screeding;
 - (iv) bonding;
 - (v) rolling;
 - (vi) trowelling.
 - (b) compacting the subsoil by using simple equipment, e.g. a hand rammer;
 - (c) laying and compacting bedding material if required, e.g. sand;
 - (d) laying, compacting and finishing the topping material, e.g. concrete, concrete slabs or bricks.
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 and 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. Demonstrations of all practical activities should be given initially by the lecturer. Examples of good practice should be shown whenever possible and site visits could be arranged for this purpose.

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

The following abbreviations are used below:

LO Learning Outcomes
LA Instrument of Assessment
PC Performance Criteria

LO1- IA Practical exercise for each LO
LO4

PC The student to an acceptable standard and in an agreed time where appropriate correctly:

LO1 identifies five materials suitable for constructing paths and paved areas.

LO2 reads, interprets and extracts details from simple working drawings.

LO3 sets out simple paths and paved areas as directed.

LO4 handles, transports, stockpiles and stacks materials.

LO5 IA Practical exercise and observation checklist.

PC The student, to an acceptable standard and in an agreed time, where appropriate, correctly:

- (a) compacts the sub-soil;
- (b) lays and compacts bedding material e.g. sand;
- (c) lays topping material, e.g., concrete, slabs or bricks;
- (d) finishes topping material, e.g. by roller and trowel.

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.