

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

**Hanover House
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NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number-	0078029	-Session-1987-88
-Superclass-	SK	
-Title-	USE OF HAND TOOLS IN GREENKEEPING (x 1/2)	
-DESCRIPTION-		
Type and Purpose	A <u>general</u> module which enables the student to acquire the practical skills associated with the use of hand tools for turf cultivation in greenkeeping.	
Preferred Entry Level	No formal entry requirements .	
Learning Outcomes	he student should: <ol style="list-style-type: none">1. know the purposes for which hand tools are used and the mechanical equipment which might be used in their place ;2. know the effects of season, soil and turf condition on the choice of hand tools;3. use hand tools safely;4. maintain hand tools.	
Content/ Context	<u>Corresponding to Learning Outcomes 1-4:</u> <ol style="list-style-type: none">1. To include a range of hand tools and their mechanical counterparts which reflect the students major topic of interest. Turfing irons and edging irons, shovel and lute, rake , holecutter.2. Awareness that soil/turf condition and season may influence the choice of tools and equipment.3. Students should use the tools appropriate to their major topic of interest.	

4. Sharpen tools; place correctly and safely on site when not in use; clean and store correctly in permanent storage.

Suggested
Learning and
Teaching
Approaches

Relating to the Learning Outcomes:

It is important that the skills relating to the use of hand tools should be acquired early in a programme of modules for many students in the land based sector (except in agriculture) since:

- (a) hand tools will be used in many of the subsequent modules
- (b) the land or area on which the operations are carried out can subsequently be used for many of the practical operations in other modules.

In general the learning approaches should be based on practical activities with a minimum of classroom work.

Demonstrations of the use of hand tools (and, on a limited basis of the equivalent machinery where available), at the correct time/season should cover adequately the reasons for their use (see checklist below for details) but tuition will have to cover use outwith the current season.

Following the demonstrations students should carry out operations using hand tools on appropriate areas. A knowledge of when tools need sharpening should come to students naturally during practical sessions. A demonstration area where all cultural operations are carried out (preferably by students), at the wrong time will help them to understand the importance of working with, rather than against, the seasons. This aspect is likely to be reinforced through activities associated with other modules at different times in the year.

Assessment
Procedures

Acceptable performance in the module will be satisfactory achievement of the performance criteria specified for each Learning Outcome.

Where cutting scores are stated these are intended to be for guidance. The precise cutting score for a test will depend on the difficulty of the test and will have to be decided by the tutor aided by the Assessor.

The following abbreviations are used below:

LO Learning Outcome
IA Instrument of Assessment
PC Performance Criteria

LO1 IA Questionnaire containing 10 items.
&2

PC The student:

- (a) describes the purposes for which hand tools are used;
- (b) states the mechanical equipment which could be used in place of hand tools;
- (c) states the effects that turf condition and season have on the type of hand tool chosen;
- (d) recommends the type of hand tools to be used for various operations.

Cutting score 70%.

LO3 IA Practical exercises using three tools from the following lists appropriate to the student's major topic of interest and with reference to an observation checklist

1. CUTTING AND LIFTING TURF
(Turf Iron and Edging Iron)

PC The student:

- (a) marks one area to be lifted;
- (b) uses edging iron/turf race correctly;
- (c) uses turving iron to lift turf of suitable thickness;
- (d) uses turving iron to lift turf of uniform thickness;
- (e) uses turf box if appropriate;
- (f) stacks turf correctly.

2. SEED/TURF BED PREPARATION (Rake)

PC The student:

- (a) levels coarse tilth on cultivated area;
- (b) removes large stones and debris without removing soil;
- (c) consolidates evenly;

- (d) produces a level and suitably fine tilth;
- (e) clears up site on completion of bed preparation.

3. HOLE CUTTING (Hole Cutter)

PC The student:

- (a) selects site for new hole;
- (b) removes cup from old hole;
- (c) cuts new hole with selected cutter;
- (d) sets plug in old hole and renovates;
- (e) places cup at correct depth in new hole using cup setter;
- (f) trims/tidies both work areas.

4. APPLY AND WORK IN TOP DRESSING
(Shovel and lute)

PC The student:

- (a) applies top dressing evenly over prescribed area;
- (b) applies top dressing at appropriate rate;
- (c) using lute, spreads top dressing over area;
- (d) inverting lute, works top dressing into sward;
- (e) tidies up area on completion of application.

LO4 IA Practical exercises in maintaining hand tools, used with observation checklist.

PC The student

- (a) adequately cleans the hand tools;
- (b) sharpens appropriate hand tools;
- (c) oils where appropriate;
- (d) stores in appropriate manner.