

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

**Hanover House
24 Douglas Street
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NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number-	0068020	-Session-1986-87
-Superclass-	SL	
-Title-	FENCE CONSTRUCTION	
-DESCRIPTION-		
Type and Purpose	A <u>specialist</u> module which enables the student to acquire the basic practical skills, numeracy and decision making skills in the context of the construction of new fences or the maintenance of existing fences. This module relates to the erection and maintenance of fences by farm staff and not to the performance level expected of a full-time professional fencer.	
Preferred Entry Level	08023 Introduction to Estate Maintenance 1	
Learning Outcomes	The student should: <ol style="list-style-type: none">1. know the terms, materials and equipment associated with the erection or major maintenance of fences;2. prepare for a fence erection or major maintenance activity;3. carry out all tasks associated with fence erection or maintenance safely, effectively and economically;4. know the appropriate regulations relating to fences;5. record the work carried out.	
Content/ Context	Corresponding to the Learning Outcomes: <ol style="list-style-type: none">1. familiarity with the local/general names of materials and structures in order to be understood when asking for materials for particular tasks. Knowledge of the range and use of specialist tools and equipment used for fencing.	

2. the student should be presented with the site for a new fence or the existing fence in need of major repair. Estimation of the materials required and equipment necessary to carry out the work. The type of fence to be stipulated.

Choice of the tools and materials when setting out for a remote task so that unnecessary journeys are avoided; development of ingenuity in overcoming abnormal circumstances so that stock can be successfully contained, without recourse to others for advice.
3. use of tools and equipment appropriate to the practice of the locality and relevant to the student's likely work situation; and development of awareness of the hazards to self, others and livestock of injudicious practices.

Erect a length of fence or carry out major repair using the appropriate tools and equipment for the task. Gate hanging and/or repair should also be included.

Improvisations and use of standard aids for the spacing of stobs and heights of wires; logical lay-out of materials and collection of tools on completion.
4. knowledge of the practices which are not permitted under fencing regulations, e.g. combinations of barbed and electric, and barbed on roadsides.
5. the student should keep worksheets of tasks performed indicating the materials and quantities used, and in so doing, develop independence and a responsibility in selecting the tools and materials required for each practical task. The student should develop an awareness of animal psychology and human behaviour related to the tasks to be carried out.

Suggested
Learning and
Teaching
Approaches

Relating to the Learning Outcomes:

This module requires little formal teaching. Practical activity should be preceded by demonstration with concurrent reference to appropriate regulations, terms and practice. The student should achieve all the Learning Outcomes primarily through practical activities, which

should cover a wide range of tasks. Formative assessment should be an integral part of each activity: the results should be used to advise students about their performance and remediation would be an inherent part of the learning activity. Activities should include:

- dig a post hole by hand and install a strainer post with/without stay(s) and using stone (not concrete);
- connect broken wires and/or fit new wires (including barbed and tension) between two strainer posts, with and without ratchet winders;
- insert new or replacement stobs to given spacing using piercer, mell and stob holder;
- staple wires to stobs and droppers to given heights;
- make repairs to a wooden gate or hurdle involving buying, measuring, and cutting suitable timber, and treating with preservatives as necessary;
- hang a wooden or iron gate, making adjustments where appropriate to adjustable eyes;
- fix rails to a wire and stob fence at ground undulations to make stock proof.

Assessment Procedures

All Learning Outcomes must be validly assessed.

The students 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.

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 Written exercise.

PC The student demonstrates a knowledge of the terms, materials and equipment associated with the erection or major maintenance of fences.

LO2 IA Short Project - the student is presented with the site for a stated type of fence and is required to prepare a work plan.

PC The student:

- (a) estimates the type and quantity of materials necessary;
- (b) lists the equipment which would be used;
- (c) plans feasibly how the work would be undertaken;
- (d) records all information accurately;
- (e) presents information neatly.

LO3 IA Practical exercise used with observation checklist - the student carries out all the tasks associated with the erection or major maintenance of a fence.

PC The student:

- (a) identifies tools and equipment used for fencing;
- (b) prepares post hole to appropriate dimensions;
- (c) positions strainer and one stay;
- (d) positions stone packing;
- (e) spaces and inserts new stobs along a fence line
- (f) fits new wires between strainer posts;
- (g) tensions wires with ratchet;
- (h) staples wires at given heights;
- (i) cuts timber to specified lengths;
- (j) adjusts eyes to provide free swing gate hang;
- (k) works safely and effectively;
- (l) uses materials economically.

LO4 IA Short answer written test consisting of five questions.

PC The student states the legal regulations and welfare recommendations relating to the construction of fences.

Cutting score 70%.

LO5 IA Completed work sheets.

PC The student satisfactorily completes work sheets of the tasks performed indicating the materials and quantities used.