

-SQA- SCOTTISH QUALIFICATIONS AUTHORITY

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

NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number-	1152140	-Session-	1990-91
-Superclass-	SG		

-Title-	MAINTENANCE OF HAND TOOLS USED IN FORESTRY WORK (x¹/₂)
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-DESCRIPTION-

Purpose	This module is designed to introduce students to the maintenance of the hand tools required for forest maintenance including brashing/pruning, forest cleaning, weed cutting and hand drainage.
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It is aimed at those who wish to develop their abilities of the craft level within the land based sector.

Preferred Entry Level	No formal entry requirements.
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Outcomes	The student should: 1. maintain straight and tooth-edged tools; 2. renew the shaft of a hand-held tool.
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Assessment Procedures	Acceptable performance in the module will be satisfactory achievement of all the Performance Criteria specified for each Outcome.
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The following abbreviations are used below:

PC Performance Criteria
IA Instrument of Assessment

Note: The Outcomes and PCs are mandatory and cannot be altered. The IA may be altered by arrangement with SQA. (Where a range of performance is indicated, this should be regarded as an extension of the PCs and is therefore mandatory.)

OUTCOME 1 MAINTAIN STRAIGHT AND TOOTH EDGED TOOLS

- PCs
- (a) The sharpening and shaping of a straight edged tool is appropriate for its efficient function.
 - (b) The sharpening and setting of a tooth edged tool is appropriate for its efficient function.
 - (c) The cleaning and oiling of tools is appropriate for their efficient function.
 - (d) The statement of the reasons for keeping metal tools clean, dry and oiled is correct.

IA Assignment

The student will be set an assignment to test the knowledge and skills required to maintain straight and tooth edged tools.

The exercise will cover the following:

- (i) sharpening and shaping of a straight edged tool;
- (ii) sharpening and setting of a tooth edged tool;
- (iii) cleaning and oiling tools;
- (iv) state the reasons for cleaning and oiling tools.

The assessment may be carried out with the aid of an observation checklist.

Satisfactory achievement of the Outcome will be based on all the Performance Criteria being met.

OUTCOME 2 RENEW THE SHAFT OF A HAND HELD TOOL

- PCs
- (a) The selection and shaping of a new shaft is appropriate to the head.
 - (b) The fitting of a new shaft is appropriate for its efficient function.

IA Practical Exercise

The student will be set a practical exercise to test the knowledge and skills required to renew the shaft of a hand-held tool.

The exercise will cover the following:

- (i) selection and shaping of a new shaft;
- (ii) fitting of a new shaft.

The assessment may be carried out with the aid of an observation checklist.

Satisfactory achievement of the Outcome will be based on all the Performance Criteria being met.

**The following sections of the descriptor are offered as guidance.
They are not mandatory.**

CONTENT/CONTEXT

The student should at all times comply with procedures and regulations designed for safe practice and use safe working practices specified for equipment and work areas.

Corresponding to Outcomes 1-2:

1. The skill of sharpening cutting tools is demonstrated, followed by practice to competency.

Maintenance techniques should be demonstrated on one straight-edged tool and on one saw-edged tool but all tools should be correctly maintained during use and thereafter.

Sharpening, stripping and setting a saw-edged tool.

Replacing detachable blade.

Oiling tools used before storage. Cleaning deposits from saw blades before storage.

2. The skill of re-shafting hand-held tools is demonstrated followed by practice to competency.

SUGGESTED LEARNING AND TEACHING APPROACHES

The emphasis throughout should be on the acquisition of practical skills. All instructions should be carried out in a practical situation. The instructor should demonstrate the correct maintenance of straight-edged and tooth-edged tools.

The instructor should:

- (a) demonstrate the correct procedures;
- (b) coach the student as skill is acquired;
- (c) criticise final uncoached practical exercise by the student.

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