

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

**38 Queen Street
GLASGOW G1 3DY
041-248 7900**

NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- 0074418 **-Session-1987-88**
-Superclass- XS

-Title- **MOBILE PLANT USERS MAINTENANCE (x¹/₂)**

-DESCRIPTION-

Purpose A general module which introduces the skills necessary to undertake the user's maintenance of a range of mobile plant.

Preferred Entry Level 64020 Assembly Skills
64730 Fastening and Joining: Non-Thermal Methods

Outcomes The student should:

1. recognise main components on mobile plant;
2. carry out user's periodic checks and servicing in accordance with manufacturers' recommendations;
3. clean and valet mobile plant units;
4. complete minor repairs, adjustments and replacements.

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

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 RECOGNISE MAIN COMPONENTS ON MOBILE PLANT

PCs

The student correctly identifies the main components on one type of mobile plant by:

- (a) appearance;
- (b) location.

IA Practical identification test used with an observation checklist involving one type of mobile plant.

**OUTCOME 2 CARRY OUT USER'S PERIODIC CHECKS AND
SERVICING IN ACCORDANCE WITH
MANUFACTURERS' RECOMMENDATIONS**

Pcs

The student:

- (a) completes daily and weekly servicing to meet with the manufacturers recommendations;
- (b) gives a verbal report of his/her observations;
- (c) completes any appropriate records;
- (d) wears all necessary safety clothing and equipment;
- (e) uses tools and equipment safely.

IA Practical exercise used with an observation checklist on one type of mobile plant.

OUTCOME 3 CLEAN AND VALET MOBILE PLANT UNITS

PCs

The student satisfactorily:

- (a) cleans exterior of one item of plant or equipment;
- (b) cleans interior of one item of plant or equipment;
- (c) uses tools and equipment safely;
- (d) wears all necessary safety clothing and equipment.

IA Practical exercise used with an observation checklist involving the cleaning of the interior and exterior of one item of plant.

OUTCOME 4 COMPLETE MINOR REPAIRS, ADJUSTMENTS AND REPLACEMENT

- PC The student:
- (a) completes a minor repair, an adjustment and a replacement;
 - (b) gives a verbal report of his/her observations;
 - (c) completes any appropriate records;
 - (d) uses tools and equipment safely;
 - (e) wears all necessary safety clothing and equipment.
- IA Practical exercise used with an observation checklist involving the repair, adjustment and replacement of components.
-

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

CONTENT/CONTEXT

Safety regulations and safe working procedures should be observed at all times.

Corresponding to Learning Outcomes 1-4:

1. Layout of main components of any of the following, and any others as appropriate to the student group:
 - (a) light road vehicles;
 - (b) heavy goods/public service vehicles;
 - (c) motor cycles;
 - (d) mobile construction plant;
 - (e) fixed construction plant;
 - (f) agricultural/horticultural tractors;
 - (g) self-propelled agricultural machinery;
 - (h) agricultural/horticultural implements;
 - (l) industrial vehicles.

Sources of information

2. Daily and weekly servicing procedures as given in relevant publications.
3. Properties and criteria for the selection of cleaning and valeting materials and equipment.

4. Use of common workshop tools and equipment necessary to complete minor replacements and repairs such as replacing a wheel, lamp bulbs, drive belts, wipers, adjusting door catches, headlamps alignment, hose clips, etc.

Where repair equipment is provided with the units of mobile plant the operation of this equipment should be taught, eg. vehicle jacks and vehicle tools.

SUGGESTED LEARNING AND TEACHING APPROACHES

The types of mobile plant selected should reflect the student group's area of interest and the module should be taught in a workshop or plant depot with access to a good range of units.

The relevant service literature and reference publications should be available and records must be the normal type required by plant user.

Formal instruction should be minimal and students should work individually or in pairs on assignments related to the type of plant selected.

The level of achievement is not expected to exceed that required by the daily user of mobile plant and should be designed to stimulate the student's interest in an identified area of work and provide an industrial base for personal development in working with others, communicating effectively and being responsible for own actions.

© Copyright SQA 1987
