

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

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

NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- 0064426 -Session-1986-87

-Superclass- XS

-Title- MOBILE PLANT TRANSMISSION 5 - TRACKED TRANSMISSION (x 1/2)

-DESCRIPTION-

Type and Purpose A specialist module (1/2) which introduces the student to the repair of tracked transmission.

Preferred Entry Level 04410 Engineering Systems 1: Machines and Mechanisms
04439 Mobile Plant Transmission Systems 1

Learning Outcomes The student should:

1. know the function and operation of the components of a tracked transmission;
2. dismantle, examine and reassemble a track unit and drive;
3. locate and rectify faults in a tracked vehicle transmission system;
4. examine the alignment and adjust the components in a tracked transmission system;
5. use safe working practices.

Content/ Context Corresponding to the Learning Outcomes:

1. reasons for using tracked transmission. Types of construction, layout and operation of main components in track units and track drives.
2. procedures to dismantle and reassemble track units and drives. Examination for faults when dismantled.

3. test and inspection procedures for faults. Common faults and their rectification.
4. methods of checking and adjusting alignment. Methods of adjusting track tension. Methods of adjusting steering, brakes, clutches.
5. safe practices when working with tracks.

Suggested
Learning and
Teaching
Approaches

This module should be taught in a practical situation, with adequate facilities for demonstration and practical work on a suitable range of tracked transmissions.

The lecturer should provide specialist instruction with the student participating in a wide range of activities.

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 Outcome
IA Instrument of Assessment
PC Performance Criteria

LO1

IA Written graphics exercise.

PC The student correctly identifies track transmission components by:

- (a) function;
- (b) operation.

LO2

IA Observation checklist.

PC The student satisfactorily:

- (a) dismantles a track transmission;

- (b) examines components for defects;
- (c) assembles a track transmission.

LO3

IA Assignment report.

PC The student correctly:

- (a) outlines fault location procedures;
- (b) identifies faulty components from symptoms.

LO4

IA Observation checklist.

PC The student correctly:

- (a) checks track alignment;
- (b) realigns track units;
- (c) adjusts track tension;
- (d) adjusts steering, brakes, clutches.

LO5

IA Observation checklist.

PC The student consistently:

- (a) wears all necessary safety clothing and equipment;
- (b) behaves in a manner appropriate to the working environment;
- (c) uses tools and equipment safely.