-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

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NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- **0094370** **-Session-1989-90**
-Superclass- **ZL**

-Title- **VEHICLE TRADES COMMUNICATION SKILLS ($x^1/_2$)**

-DESCRIPTION-

Purpose

This module is designed to introduce the basic communication skills used in vehicle trades including use of parts and service manuals, interpretation of engineering drawings, preparation of parts and materials requisitions, and completion of service work records.

It is aimed at those intending to pursue a career in the motor vehicle repair industry. The module is also designed to complement RTITB module MV014F Light and Heavy Vehicle: Repair and Maintenance Skills and will provide the student with the necessary knowledge and skills to prepare for the RTITB Skills Test. It should be noted however that adequate supporting industrial experience will also be necessary.

Preferred Entry Level

No formal entry requirements

Learning Outcomes

The student should:

1. read and interpret, in accordance with current British Standards, engineering drawings related to motor vehicle engineering;

2. prepare a parts and materials requisition using appropriate literature for a major vehicle service;

3. read and interpret vehicle manufacturers' wiring diagrams.

Content/ Context

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

Corresponding to Learning Outcomes 1-3:

This module should be taught in the context most suited to the student's particular needs.

Emphasis should be placed on the student being able to extract information from drawings, charts and diagrams only as relevant to the motor trade service industry. Students should be made aware of the existence of other standards in addition to B S S e.g. DIN and I S O.

Suggested Learning and Teaching Approaches

The students should be given the opportunity to examine and interpret a range of drawings, charts, graphs and diagrams relating to the motor trade. Service manuals, data sheets, stores requisitions etc. should be readily available.

Assessment Procedures

Acceptable performance in the module will be satisfactory achievement of all 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

READ AND INTERPRET, IN ACCORDANCE WITH CURRENT BRITISH STANDARDS, ENGINEERING DRAWINGS RELATED TO MOTOR VEHICLE ENGINEERING

PC The student:

(a) identifies different types of drawing used in current British Standards;
(b) extracts and interprets information from a range of drawings.

IA Assignment

The student will be presented with an assignment to test the application of knowledge relating to extraction and interpretation of information from engineering drawings.

The assignment will involve the student being presented with 4 different types of drawings from the following:

- assembly
- detail
- pictorial
- sectioned
- exploded
- line

Five items of information should be extracted and interpreted from each drawing.

Satisfactory achievement of the Learning Outcome will be based on all performance criteria being met.

LO2 PREPARE A PARTS AND MATERIALS REQUISITION USING APPROPRIATE LITERATURE FOR A MAJOR VEHICLE SERVICE

PC The student:

(a) obtains information from appropriate sources on a vehicle;
(b) extracts information from relevant literature;
(c) prepares a stores requisition for parts and materials required.

IA Assignment.

The student will be presented with an assignment to test the application of knowledge required to complete a parts and materials requisition for a major vehicle service.

The assignment will be carried out for any vehicle. Satisfactory achievement of the Learning Outcome will be based on all performance criteria being met.

LO3 READ AND INTERPRET VEHICLE MANUFACTURERS' WIRING DIAGRAMS

PC The student:

(a) identifies common symbols for electrical components;
(b) identifies colour codes used in wiring diagrams;
(c) demonstrates the ability to trace a circuit from a wiring diagram.

IA Assignment

The student will be presented with an assignment to test the application of knowledge and skills required to interpret vehicle wiring diagrams.

The assignment should involve diagrams such as found in manufacturers' manuals and other literature.

Satisfactory achievement of the Learning Outcome will be based on all performance criteria being met. This will be demonstrated by the student:

1. Identifying 6 commonly used symbols.
2. Tracing one circuit from a wiring diagram.
3. Identifying 4 circuits by cable colour, two of which must include tracer colours.