

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

**Hanover House
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NATIONAL CERTIFICATE MODULE DESCRIPTOR

**-Module Number-
-Superclass-**

**0074442
XR**

-Session-1987-87

-Title-

**VEHICLE CONFIGURATIONS, CONSTRUCTIONS AND
IDENTIFICATION (x 1/2)**

-DESCRIPTION-

Type and
Purpose

A general module which introduces vehicle types, layouts, constructions and interpretation of identification information. It is suitable for persons involved with vehicle service, repair and usage.

Preferred
Entry Level

No formal entry requirements

Learning
Outcomes

The student should:

1. recognise the layout and functions of the main components in different vehicle configurations;
2. identify the principal methods of vehicle construction;
3. interpret information given on vehicle manufacturer's data plate;
4. know the general requirements of the current Motor Vehicle Construction and Use Regulations;
5. know the current Type Approval Regulation requirements.

Content/
Context

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

Corresponding to Learning Outcomes 1-5:

1. The identification and function of main components such as engine, gearbox, driving axles, steering, fuel tank, radiator, etc.

The layout of these components in vehicle configurations such as front engine front wheel drive, front engine rear wheel drive, mid-engine, buses and coaches, multi-wheel drives.

2. Names of principal types of vehicles and vehicle bodies such as cars, light goods vehicles, heavy goods vehicles, public service vehicles, containers, etc.

Methods of vehicle construction by a separate chassis, mono construction, composite construction; etc.

Main load bearing members in these constructions.

Names of frame and body components, panels and sections.

3. Location of Vehicle Data Plates and sources of information for decoding plate data.

Relationship between Manufacturers Data Plate and the Department of Transport Plate.

4. Sources of information on the content and interpretation of the current Motor Vehicle Construction and Use Regulations.

Methods by which the C & U Regulations are enforced such as annual tests and spot checks.

Responsibilities of vehicle users and others to ensure that vehicles comply with the C & U Regulations.

5. Sources of information on current Type Approval Regulations.

Identification of type approved units and components.

Suggested
Learning and
Teaching
Approaches

Relating to the Learning Outcomes:

1&2. students should inspect as wide a range of vehicles as possible and teaching should be supported by films, transparencies or photographs of types or constructions which cannot be inspected.

Assignments should be given to individual students to determine the type, layout, method of construction and load bearing members of vehicles.

3. a range of data plates should be interpreted with the aid of suitable publications to show the relevance of the information available.

4. students should be made aware of the general requirements of the C & U Regulations and how to obtain information on the relevant regulations.

5. students should be made aware of the general requirements of Type Approval Regulations. How to obtain information on the regulations and how to identify Type Approved components.

Assessment
Procedures

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 Graphical/written exercise.

PC The student correctly:

(a) identifies three different vehicle layouts and configurations;

(b) states the functions of the main components of each.

- LO2 IA Graphical/written exercise.
- PC The student correctly identifies for one vehicle layout and configuration:
- (a) type of vehicle body;
 - (b) type of vehicle construction;
 - (c) load bearing members.
- LO3 IA Assignment report.
- PC The student gives a report on an interpretation of a data plate which includes all relevant information appertaining to that vehicle.
- LO4 IA Assignment report.
- PC On being instructed to obtain information on a given C & U subject; the student gives a report which includes:
- (a) source used for the information;
 - (b) a satisfactory explanation of the relevant information;
 - (e) a decision on whether or not a certain vehicle and component complies with that requirement and reason for the decision.
- LO5 IA Assignment report.
- PC On being instructed to obtain information on Type Approval of a component, the student gives a report which includes:
- (a) the source used for the information;
 - (b) an explanation of the relevant information;
 - (c) a decision on whether the component is Type Approved.