

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

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

NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- 0074486 -Session-1987-88
-Superclass- XS
-Title- VEHICLE MAJOR DAMAGE REPAIR: ASSESSMENT AND JIGS

-DESCRIPTION-

Type and Purpose A specialist module which develops the knowledge and skills knowledge necessary to use jigs in the repair of damaged vehicle bodies.

Preferred Entry Level 74442 Vehicle Configurations, Constructions and Identification
74498 Mobile Plant Bodyworking: Introduction

Learning Outcomes The student should:

1. assess whether a jig is necessary for the repair of a damaged vehicle body;
2. mount a vehicle body on a repair jig;
3. determine the extent of misalignment or damage;
4. rectify damage and re-align the vehicle.

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

Corresponding to Learning Outcomes 1-4:

1. Checks to determine structural or other damage. Use of quick-check adapters, gunsight gauges, drop checks; measurement techniques.
2. Identification and use of different types of jigs. To include bracket jigs and bracketless jigs. Lifting, handling and mounting of vehicle bodies on jigs.
3. Use of jig checking systems to determine extent of misalignment and damage.

4. Attachments for pulling, pushing.

Methods for fixing attachments.

Procedures for using equipment to re-align the vehicle, rectify damage.

Suggested Learning and Teaching Approaches

The module activities should be experienced in an environment appropriate to the learning outcomes.

It is anticipated that a team of students (a maximum of four to each team) should work on a damaged body in order to obtain sufficient worthwhile experience.

Students should be encouraged to discuss problems, exchange ideas, assist each other and make decisions.

Safety, safe working practices, and care and use of equipment should be an integral part of module activities.

The particular dangers associated with heavy equipment should be highlighted.

Evidence of the exercises should be kept for the assessors. If the actual vehicle is not available for inspection some other method may be used.

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 Practical exercise in which the student is required to check a damaged vehicle body using drop checks and at least one other method.

PC The student:

- (a) selects suitable drop or reference points;
- (b) checks dimensions according to manufacturers' data;
- (c) decides whether a jig is required for the repair.

- LO2 IA
3&4 Practical exercises, used with observation checklists, in which the student is required to mount a vehicle on a jig, determine the extent of misalignment or damage, rectify the damage and re-align the vehicle.
- PC The student:
- LO2 (a) mounts the body on the appropriate jig;
- LO3 (b) referring to manufacturers' data, completes a damage assessment sheet detailing the extend of damage to the chassis or misalignment;
- LO4 (c) secures and uses the equipment necessary to realign the vehicle to the standard specified in the appropriate manufacturers' data or manual;
- LO1
2&3 (d) wears all necessary safety clothing and equipment;
- (e) uses correct lifting and handling techniques;
- (f) uses hand and power tools and attachments safely;
- (g) behaves in a manner appropriate to the working environment and with due consideration for the other team members.

02/12/98

© Copyright SQA 1987