

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

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

NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- 0074488 -Session-1987-88
-Superclass- XS

-Title- VEHICLE MAJOR DAMAGE REPAIR: STRUCTURAL REPLACEMENT

-DESCRIPTION-

Type and Purpose A specialist module which extends the skills required in the use of body jigs including the removal and replacement of structural body parts.

Preferred Entry Level 74442 Vehicle Configurations, Constructions and Identification
74486 Vehicle Major Damage Repair: Assessment and Jigs
74741 Metal Joining Skills: Thermal

Learning Outcomes The student should:

1. remove structural body panels and sections;
2. prepare vehicle bodies to receive new parts;
3. replace and align new body panels and sections.

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

Corresponding to Learning Outcomes 1-3:

1. Identification, selection and use of hand and power tools and equipment. Methods for removing panels.
2. Procedures for preparing joints and edges to accept new parts.
3. Alignment procedures, use of temporary clamps and body jig. Appropriate welding methods to secure panels and sections.

Suggested Learning and Teaching Approaches	<p>Module activities should be experienced in an environment appropriate to the Learning Outcomes.</p> <p>It is anticipated that a team of students will work on a damaged vehicle to restore it to an acceptable condition.</p> <p>Students should be encouraged to discuss problems, exchange ideas, assist each other and make decisions.</p> <p>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.</p> <p>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.</p>
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Assessment Procedures	<p>Acceptable performance in the module will be satisfactory achievement of the performance criteria specified for each learning outcome.</p> <p>The following abbreviations are used below:</p> <p>LO Learning Outcome IA Instrument of Assessment PC Performance Criteria</p> <p>LO1, IA 2&3 Practical exercises, used with an observation checklist in which the student is required to remove and replace a damaged vehicle body panel and section. The damaged vehicle should have been involved in a major accident and require the use of jigs for repair.</p> <p>PC The student.</p> <p>LO1 (a) removes the damage panel and section with no unnecessary damage to the surrounding bodywork;</p> <p>LO2 (b) correctly prepares the body to receive the new part;</p> <p>LO3 (c) uses the appropriate equipment to replace and align at least one panel and one section to the standard laid down by the appropriate manufacturers' manuals and data;</p>
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- LO1, 2&3
- (d) wears all necessary safety clothing and equipment;
 - (e) uses the appropriate tools and equipment for the repair;
 - (f) uses tools and equipment safely;
 - (g) behaves in a manner appropriate to the working environment.

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