

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

**Hanover House
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NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- 0074494 -Session-1987-88
-Superclass- XR

-Title- VEHICLE PAINT SURFACE PREPARATION 1

-DESCRIPTION-

Type and Purpose A general module which introduces paint surface preparation techniques.

Preferred Entry Level No formal entry requirements.

Learning Outcomes The student should:

1. identify the suitability of surfaces for painting;
2. use suitable masking and sheeting procedures;
3. use suitable abrasives for surface preparation;
4. use suitable stoppers or fillers and assess quality of surface finish;
5. apply suitable surface preparation coatings.

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

Corresponding to Learning Outcomes 1-5:

1. Identification of surfaces which are suitable and unsuitable for painting eg. oily, wet, rusty.
2. Masking and sheeting materials and procedures. Masking methods used for duo-tone and multi-coloured painting.

3. Types and applications of abrasive materials. Methods of using abrasives for flattening, denobbing and feather-edging paintwork by hand and machine. Methods of levelling stoppers or fillers and assessing surfaces as suitable for the next stage in the painting sequence.
4. Types and applications of stoppers and fillers.

Use of guide coatings where applicable, to assess surface quality.
5. Compatibility testing to identify suitable surface preparation coatings.

Suggested
Learning and
Teaching
Approaches

This module should be introduced by lecturing, followed by practical demonstrations on a range of surfaces, and completed by practical student participation.

Students should consider a range of surfaces, some parts of which may or may not require paint preparation or removal.

They should be involved in masking techniques suitable for a range of different units.

Students should select from a range of abrasives and describe methods for using abrasives.

Students should be introduced to the principles of selecting suitable materials for preparing different types of existing finishes and surfaces.

The premises must be equipped to the necessary Health and Safety standards.

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 identification test involving 10 surfaces.
- PC The student from 10 surfaces provided:
- (a) identifies 4 surfaces suitable for painting;
 - (b) identifies 4 surfaces unsuitable for painting;
 - (c) states the faults which would be caused by painting these unsuitable surfaces.
- LO2 IA Practical exercise used with observation checklist in the selection and use of masking and sheeting procedures for one large area, one small awkward object and one curved surface.
- PC The student:
- (a) selects suitable masking and sheeting materials;
 - (b) correctly masks each of the surfaces;
 - (c) wears all necessary safety clothing and equipment;
 - (d) uses tools and equipment safely.
- LO3 IA Practical exercise used with observation checklist on the use and selection of suitable abrasives for surface preparation including six different surfaces/finishes.
- PC The student:
- (a) selects for each surface a suitable abrasive material;
 - (b) prepares two surfaces using abrasives correctly by hand;
 - (c) prepares two surfaces using abrasives correctly by power tools;
 - (d) prepares one feather edge and surface correctly;
 - (e) prepares one surface using filler or stopper for levelling;
 - (f) wears all necessary safety clothing and equipment;

- (g) uses tools and equipment safely.
- LO4 IA Practical exercise used with observation checklist on the use of stoppers and fillers on 4 different surfaces.
- PC The student for each of the 4 surfaces:
- (a) selects two suitable fillers and two suitable stoppers;
- (b) correctly applies two fillers and two stoppers to rectify deep and shallow indentations and scratches;
- (c) assesses quality of surface finish by touch and sight;
- (d) wears all necessary safety clothing and equipment;
- (e) uses tools and equipment safely.
- LO5 IA Practical exercise used with observations checklist on the selection and application of surface preparation coating for two different surfaces.
- PC The student:
- (a) selects for each of the two surfaces a suitable surface coating;
- (b) applies the surface coatings correctly;
- (c) wears all necessary safety clothing and equipment;
- (d) uses tools and equipment safely.