

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

**Hanover House
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NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number-	0074491	-Session-1987-88
-Superclass-	XR	

-Title-	VEHICLE PAINT COLOUR MIXING AND MATCHING
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-DESCRIPTION-

Type and Purpose	A <u>specialist</u> module which introduces a knowledge of colour terminology, paint mixing and matching materials. It also develops the skills required to mix and match a range of different types of paint materials.
Preferred Entry Level	74494 Vehicle Paint Surface Preparation 1 75333 Painting 5: Conventional Spray Painting 75325 Vehicle Painting: Introductory Brush Painting
Learning Outcomes	The student should: 1. know colour terminology; 2. identify and use gravimetric paint mixing equipment; 3. locate and use colour formula information; 4. mix straight and metallic colours by hand and match to given samples.

Content/ Context	Safety regulations and Safe working practices and procedures should be observed at all times. <u>Corresponding to Learning Outcomes 1-4:</u> 1. Colour terminology, hue, shade, tint, pastel tint, pastel shade, tone, value chroma, greyness weight, colour harmonies BS2660, BS4800.
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2. Types of gravimetric paint mixing equipment and comparison of the systems available. Preparation and use of equipment.

A knowledge of the types of volumetric paint mixing equipment and comparison of the systems available. Mixing paint by hand where power mixers are not incorporated with the equipment.

3. Use of vehicle manufacturer data plate to identify colours. Use of paint manufacturer's literature and microfiche to obtain information.

4. Matching of colours by eye and the influence of light source and direction. Causes, remedies and preventative measures of metamerism. Use of Munsell colour solids.

Knowledge of the regulations governing the handling of paints. Use of protective clothing and barrier creams. Care of skin diseases resulting from chemicals.

Suggested Learning and Teaching Approaches

This module should be presented in a practical situation using lectures and demonstrations as appropriate.

Students should be given a range of practical assignments to develop the skills and techniques necessary to achieve the learning outcomes.

Assessment Procedures

Acceptable performance in the module will be satisfactory achievement of the performance criteria for each learning outcome.

The following abbreviations are used below:

LO Learning Outcome

IA Instrument of Assessment

PC Performance Criteria

LO1 IA Short answer written test consisting of 10 questions on colour technology.

PC The student defines eight of the common terms used in colour terminology.

LO2 IA Practical exercise in the use of gravimetric paint mixing equipment.

The sample given should be a panel measuring approximately 100mm x 75mm.

PC The student:

- (a) identifies gravimetric paint mixing equipment;
- (b) using gravimetric equipment and manufacturer's data, mixes one straight sample and one metallic sample to match given colours.

LO3 IA Practical and written exercises in which the student locates and uses colour formula information.

PC The student:

- (a) extracts and records the data from three different vehicle manufacturers' data plates;
- (b) refers this data to the paint manufacturers' data;
- (c) identifies and records the colour and formula for the paint.

LO4 IA Practical exercise in which the student mixes and matches:

- (a) one straight coloured sample and;
- (b) one metallic colour sample;

PC The student, for each sample:

- (a) identifies by eye the colour to match the sample;
- (b) mixes the colour required by hand;
- (c) uses all necessary safety clothing and equipment;
- (d) behaves in a manner appropriate to the working environment;

- (e) follows the safe methods of mixing and handling paints according to legislation and manufactures data.

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