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NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number-	2210981	-Session-1991-92
-Superclass-	XR	

-Title-	PAINTING PLASTIC SURFACES (x¹/₂)
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-DESCRIPTION-

Purpose This module is designed to enable the student to develop the skills and knowledge required to paint vehicle body components manufactured from a range of plastic and non metallic materials.

It is primarily intended for persons employed in the vehicle body, paint and repair trades but is also suitable for those employed in the industrial painting of other plastic materials and components.

The standards contained in this module cover the work and the associated Transkill assessments for the RTITB Skills Test BR116 Refinishing of Plastics.

Preferred Entry Level	85333 Conventional Spray Painting (x 1 1/2)
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Outcomes	The student should: 1. determine the procedures recommended for the painting of plastic surfaces; 2. apply paints to plastic surfaces.
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Assessment Procedures	Acceptable performance in this module will be satisfactory achievement of all the Performance Criteria specified for each Outcome.
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The following abbreviations are used below:

PC Performance Criteria
IA Instrument of Assessment

Note: The Outcomes and PCs are mandatory and cannot be altered. The IA may be altered by arrangement with SQA. (Where a range of performance is indicated, this should be regarded as an extension of the PCs and is therefore mandatory.)

OUTCOME 1 DETERMINE THE PROCEDURES RECOMMENDED FOR THE PAINTING OF PLASTIC SURFACES

- PCs
- (a) The selection of reference publications for use in identifying types of plastic is correct in terms of use for vehicle components.
 - (b) The selection from use of reference publications of the type of plastic material is correct for the given vehicle component.
 - (c) The selection from use of reference publications of the procedure for painting is correct for the given vehicle plastic component.

IA Assignment

The student will be set an assignment consisting of a series of 3 exercises set in a workshop environment to test the application of skills and knowledge required to determine the recommended procedures for painting plastic components.

The student will be required to determine the procedures for 3 different types of plastic components.

Satisfactory achievement of the Outcome will be demonstrated by the student identifying, from an appropriate publication, information which gives the procedure for painting all 3 of the plastic components identified in the tasks.

OUTCOME 2 APPLY PAINT TO PLASTIC SURFACES

- PCs
- (a) The preparation of the surface ensures, upon visual inspection, that all grease, dust, flaking, glazing and surface imperfections have been removed.
 - (b) The preparation of the paint mix includes additives in the proportions stated by the manufacturer.
 - (c) The application of the primer coats provides a painted surface which is free from runs, blistering, chemical reactions and poor adhesion.
 - (d) The application of the top coats provides a paint finished free from runs, snags, blisters, rough finish and colour mis-match.
 - (e) Tools used are appropriate to the task and working practices followed are in accordance with current safety regulations.
 - (f) The recognition of defects in painted plastic surfaces commonly known as sags, runs, blistering, cracking, pin holing, low gloss, and chemical reaction are correct.
 - (g) Remedial actions recommended for defects commonly known as sags, runs, blistering, cracking, pin holing, low gloss, and chemical reaction would prevent those defects recurring.
 - (h) Repair action recommended for defects commonly known as sags, runs, blistering, cracking, pin holing, low gloss, and chemical reaction would rectify any existing defect damage.

IA Assignment

The student will be presented with an assignment comprising of a practical exercise and restricted response questions to test the application of knowledge and skills required to apply paints to plastic surfaces and recommend remedial action for defects.

The assignment will consist of 2 parts as follows:

Part (I): A practical exercise relating to PC (a) to (e) which will comprise of 2 tasks:

- (i) the painting of a rigid plastic surface and;
- (ii) the painting of a flexible plastic surface.

Part (II): 7 Restricted Response Questions relating to PC (g) to (h) requiring the student to identify and recommend remedial action for the following defects:

- (i) sags;
- (ii) blistering;
- (iii) pin holing;
- (iv) chemical reaction;
- (v) runs;
- (vi) cracking;
- (vii) low gloss.

Satisfactory achievement of the Outcome will be based on all Performance Criteria being met. This will be demonstrated by the student for:

Part (I) - producing 2 plastic surfaces painted in accordance with the Performance Criteria and;

Part (II) - producing 7 correct responses.

**The following sections of the descriptor are offered as guidance.
They are not mandatory.**

CONTENT/CONTEXT

The requirements of the relative safety regulations should be applied through out the module, with particular reference to:

- Handling of the chemicals used in the painting of plastic surfaces.
 - Storage of chemicals.
 - Procedures in the event of spillage.
 - Disposal of unused supplies.
 - Special ventilation requirements.
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SUGGESTED LEARNING AND TEACHING APPROACHES

All Outcomes should be taught and assessed in a practical situation and may be incorporated into a simulated work situation which requires a correctly painted component to be produces for a given purpose.

The requirements of any Industry Body such as the RTITB Transkill Scheme should be investigate for inclusion and assessment in the module.

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