

**-SQA-SCOTTISH QUALIFICATIONS AUTHORITY**

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**NATIONAL CERTIFICATE MODULE DESCRIPTOR**

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**-Module Number- 0074497 -Session-1987-88**  
**-Superclass- XR**

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**-Title- PAINT SURFACE COATINGS 4: TWO PACK FINISHES**

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**-DESCRIPTION-**

Type and Purpose A specialist module which develops the knowledge and skills required for the spray application of two-pack or chemically cured surface coatings.

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Preferred Entry Level 74494 Vehicle Paint Surface Preparation 1  
75333 Painting 5: Conventional Spray Painting

Learning Outcomes The student should:

1. select and prepare air-fed breathing equipment;
2. apply two pack materials by spray application;
3. identify and specify procedures to rectify a range of surface coating defects.

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

Corresponding to Learning Outcomes 1-3:

1. Reference to the need for correct use of ventilating appliances and for observing regulations on safe procedures when handling and using two-pack materials.

Reasons for air-fed breathing equipment.  
Preparation and use of air-fed breathing equipment.

2. Application of straight colour and metallic two-pack finishes by spray, including local or spot repair techniques.

Reasons for the thorough cleaning of equipment and tools used for spraying two-pack finishes.

3. Identification and rectification of surface coating defects which are likely to occur with chemically-cured finishes.

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Suggested Learning and Teaching Approaches

This module should be taught by lecturing and practical demonstration and for the bulk of the time students should be involved in practical assignments of a realistic nature.

Students could be shown the effects of applying two-pack materials to unsuitable bases eg. sandwiching of a two-pack polyester filler or stopper between coats of air drying cellulose or acrylic lacquer finishes.

Students should see, if possible, application procedures using at least two separate methods of paint feed, eg. suction and gravity spraying equipment.

For Learning Outcome 1 the lecturer could lay out the equipment and allow students to assemble as required.

Students should be allowed to practise on suitably sized areas and units applicable to their specific training objectives.

Sample panels showing defects could be used and any defects occurring during exercises could be rectified as necessary with due regard to the time available.

Where possible students should see the effects of incorrect cleansing procedures, e.g. blocked spray guns (this could be demonstrated by sectioning an old, work-contaminated gun). Damaged breathing air hoses could also be exhibited.

Safe procedures should be demonstrated throughout the module. Use should be made of regulations and other literature which is more readily interpreted, eg. paint manufacturers' information sheets should be made available for reference purposes.

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 Practical exercise used in conjunction with an observation checklist.

PC The student selects inspects, prepares, uses and cleans air fed breathing equipment in accordance with legislation and manufacturer's instructions.

LO2 IA Practical exercises used in conjunction with an observation checklist involving the application of one straight colour and one metallic colour.

PC The student for each application:

- (a) selects a suitable finishing process;
- (b) prepares the two pack materials for use;
- (c) applies the materials by spraying;
- (d) cleans all spraying equipment after use;
- (e) wears all spraying equipment after use;
- (f) uses tools and equipment safely.

LO3 IA Assignment report in which the student identifies and explains how to rectify six different surface coating defects.

PC The student correctly:

- (a) identifies from the samples provided the faults typical to chemically-cured coatings;

- (b) specifies the appropriate procedures for rectifying each defect.

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