

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

**Hanover House
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NATIONAL CERTIFICATE MODULE DESCRIPTOR

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| -Module Number- | 0074496 | -Session-1987-88 |
| -Superclass- | XR | |

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| -Title- | PAINT SURFACE COATINGS 2: AIR DRYING SYNTHETIC FINISHES (SPRAY APPLICATION) |
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-DESCRIPTION-

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| Type and Purpose | A <u>specialist</u> module which introduces a knowledge of the materials and principles for the spray application of air drying synthetic surface coatings. |
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| Preferred Entry Level | 74494 Vehicle Paint Surface Preparation 1 74492 Special Vehicle Paint Application Systems or 75333 Painting 5: Conventional Spray Painting |
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| Learning Outcomes | The student should: <ol style="list-style-type: none">1. know suitable surfaces for the spray application of air-drying synthetic finishes;2. prepare suitable spraying equipment;3. prepare and apply by spraying air-drying synthetic coatings;4. identify and rectify air-drying synthetic surface coating defects;5. apply specific equipment cleaning procedures. |
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| Content/ Context | <p>Safety Regulations and safe working practices and procedures should be observed at all times.</p> <p><u>Corresponding to Learning Outcomes 1-5:</u></p> <ol style="list-style-type: none"> 1. Applications for air-drying synthetic finishes. <p>Comparisons of different synthetic paint systems eg. gloss, varnish, emulsions.</p> 2. Advantages and disadvantages of suction, gravity and pressure feed spraying systems with regard to these finishes. <p>Equipment settings for use with these finishes.</p> 3. Use of manufacturers' instructions for preparing and applying a synthetic painting system. <p>Reasons why these materials should not be left in spraying equipment for prolonged periods.</p> 4. Surface coating defects, eg. wrinkling, flooding, bruising of soft paint films and varnish defects. 5. Equipment cleaning procedures following use with synthetic finishes. |
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| Suggested Learning and Teaching Approaches | <p>This module should be taught by lecture/demonstrations followed by student participation.</p> <p>Students should make reference to manufacturers information sheets throughout the finishing process. An example of a paint system showing the stages from start to finish would be useful.</p> <p>In the application of these materials suitable practical assignments should be used.</p> <p>Students should identify panels with defects and state the causes, remedies and preventative measures necessary.</p> |
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| Assessment Procedures | <p>Acceptable performance in the module will be satisfactory achievement of the performance criteria for each learning outcome.</p> <p>LO Learning Outcome IA Instrument of Assessment</p> |
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PC Performance Criteria

- LO1 IA Practical identification test in which the student is given 5 samples of different surfaces.
- PC The student:
- (a) identifies three surfaces suitable for painting with synthetic finishes;
 - (b) states two reasons for using air drying synthetic finishes.
- LO2 IA Practical exercise used with observation checklist on the selection of spraying equipment for one given example.
- PC The student:
- (a) selects suitable spraying equipment;
 - (b) prepares the equipment for spraying synthetic finishes.
 - (c) wears all necessary safety clothing and equipment;
 - (d) uses equipment safely.
- LO3 IA Practical exercise used with observation checklist on the preparation and application of air drying synthetic coatings.
- PC The student for two different situations:
- (a) selects suitable materials;
 - (b) using manufacturers' data prepares materials for spraying and measures viscosity;
 - (c) applies materials by spraying;
 - (d) wears all necessary safety clothing and equipment;
 - (e) uses tools and equipment safely.

LO4 IA Written exercise on the identification and rectification of air drying synthetic surface coating defects from given samples.

PC The student:

- (a) identifies six finish defects from samples provides;
- (b) specifies appropriate rectification procedures for each given defects.

LO5 IA Practical exercise, used with observation checklist on cleaning equipment after use with synthetic finishes.

PC The student:

cleaning;

- a) dismantles the equipment for
- b) correctly cleans the equipment;
- c) replaces the parts correctly;
- d) tests the equipment correctly;
- e) stores the equipment correctly.