

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

**Hanover House
24 Douglas Street
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NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- 0074492 -Session-1987-88
-Superclass- XR

-Title- SPECIAL VEHICLE PAINT APPLICATION SYSTEMS
(x¹/₂)

-DESCRIPTION-

Type and Purpose A specialist module which introduces the skills required for paint spraying a basic knowledge of the tools, equipment, processes and applications associated with specialised paint spraying methods.

It would be useful to run this module in conjunction with 74494 Vehicle Paint Surface Preparation 1.

Preferred Entry Level 74494 Vehicle Paint Surface Preparation 1
75333 Basic Spray Painting

Learning Outcomes The student should:

1. know a range of specialised paint spraying processes;
2. use appropriate equipment and procedures for paint spraying;
3. service and maintain equipment.

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

Corresponding to Learning Outcomes 1-3:

1. Processes, equipment and typical applications to include: pressure feed spraying; airless spraying; electrostatic spraying; hot spraying. Comparison of processes; advantages and disadvantages.

2. Procedures for use of equipment. Practical techniques for applications of paint. Suitability of coatings for particular materials.
3. Adjustments to ensure satisfactory operation of equipment. Dismantling the equipment for cleaning. Parts to be replaced and tested before starting. Correct storage of equipment.

Suggested
Learning and
Teaching
Approaches

The module activities should be experienced in an environment appropriate to the Learning Outcomes.

Preparation of surfaces should be kept to a minimum to allow time for practice in using the equipment.

Realistic industrial applications should be used to reinforce the principles covered in the module.

Use of all equipment should be demonstrated, with particular emphasis on good practice and recommended safety procedures.

The special hazards associated with paints and pressurised spraying equipment must be highlighted.

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 Written test consisting of 10 questions, on the range of specialised paint spraying processes.

PC The student:

- (a) lists three different types of specialised paint spraying processes;
- (b) describes the operation of each type;
- (c) states the typical application of each type.

LO2 IA Practical exercise in which the student uses two different processes to spray prepared surfaces.

PC For each paint spraying process, the student:

- (a) selects the correct equipment and appropriate materials;
- (b) prepares the equipment for use;
- (c) correctly applies surface coatings to the prepared components;
- (d) wears all necessary safety clothing and equipment;
- (e) behaves in a manner appropriate to the working environment;
- (f) uses tools and equipment safely.

LO3 IA Practical exercises in which the student services and maintains the spraying equipment.

PC The student, for the equipment used in the assessment at LO2:

cleaning;

- (a) dismantles the equipment for
- (b) correctly cleans the equipment;
- (c) replace the parts correctly;
- (d) test the equipment correctly;
- (e) stores the equipment correctly.