

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

**Hanover House
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NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- 0074499 -Session-1987-88
-Superclass- XR

-Title- VEHICLE PAINT SURFACE PREPARATION 2

-DESCRIPTION-

Type and Purpose specialist module which introduces the student cleaning and shot or grit-blasting equipment, materials and processes.

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

Learning Outcomes The student should:

1. select and use burnishing tools;
2. know and use steam and water pressure cleaning equipment;
3. select and use shot and grit blasting equipment;
4. know other specialised surface preparation processes.
5. comply with regulations and procedures and use safe working practice specified for equipment and work areas.

Content/ Context Corresponding to Learning Outcomes 1-5:

1. Identification of the main components of burnishing tools and preparation of the tools for use. Maintenance necessary to keep the tools in good working order. Applications of burnishing tools.

Use of burnishing tools for compounding and burnishing operations involving straight and metallic finishes.

2. Preparation of steam and pressure cleaning equipment.

Use of steam and pressure cleaning equipment for cleaning appropriate surfaces.

Cleaning, disconnecting and storing equipment in correct manner after use.
3. Various types of shot or grit blasting equipment and materials, and preparation of this equipment for use.

Use of shot or grit blasting equipment for removing corrosion millscale, etc.
4. Identification and uses of shipping needles and chisels, Oxy-acetylene flame cleaning equipment and phosphating applications, etc.
5. Reference to the relevant regulations and manufacturers' information prior to using tools, equipment and materials.

Suggested
Learning and
Teaching
Approaches

This module should be presented by lecture/ demonstrations and followed by student participation in the practical activities outlined in a suitably equipped workshop.

Relating to the Learning Outcomes:

1. lecturers should demonstrate the compounding and burnishing of suitable straight and metallic finishes and display panels showing defects illustrating incorrect methods.
2. the student should observe steam and pressure cleaning equipment being prepared and used for appropriate tasks. This should be followed by student participation on suitable work pieces or units.
3. a demonstration of shot or grit blasting for removing, eg. rust from a chassis, followed by student participation on workpieces of a suitable nature and size, would be appropriate.
4. films or visual aids of equipment should be used where actual equipment is not available.

5. this learning outcome can be taught by using visual aids and films as appropriate but there must always be demonstrations using the actual equipment. Safety precautions should be pointed out as and when necessary.

Assessment
Procedures

All learning outcomes must be validly assessed.

The student must be informed of the tasks which contribute to summative assessment and, if possible, any unsatisfactory aspects should be discussed with the student as and when they arise.

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 Observation checklist.

PC The student correctly:

(a) identifies burnishing tools and states the function of their main components;

(b) uses burnishing tools for compounding and burnishing straight colour and metallic finishes;

(c) states reasons why certain finishes should not be burnished.

LO2 IA Observation checklist.

PC The student correctly:

(a) identifies steam and water pressure cleaning equipment/tools and states the function of their main components;

(b) uses steam and water pressure cleaning equipment/tools.

- LO3 IA Observation checklist.
- PC The student correctly:
- (a) identifies shot or grit blasting tools and equipment and states the functions of their main components;
 - (b) uses shot or grit blasting equipment for suitable cleaning operations.
- LO4 IA Short answer questions.
- PC The student correctly describes other processes and states appropriate applications.
- LO5 IA Observation checklist.
- PC The student:
- (a) wears all necessary safety clothing and equipment;
 - (b) behaves in a manner appropriate to the working environment;
 - (c) uses tool and equipment safely.