



Australian Government

Department of Education, Employment and Workplace Relations

AURV329649A Prepare substrate for refinishing

Release: 1

AURV329649A Prepare substrate for refinishing

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers the competence required to prepare substrates for refinishing. The preparation of plastic/composite materials for refinishing is not addressed in this unit.
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Application of the Unit

Application of the unit	The unit includes identification and confirmation of work requirement, preparation for work, removal of surface rust/ scale, application of primers and sealers, the preparation of the surface for refinishing and completion of work finalisation processes, including clean-up and documentation. Work requires individuals to demonstrate judgement and problem-solving skills in managing own work activities and contributing to a productive team environment. Work is carried out in accordance with award provisions.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for work	1.1. Work instructions are used to determine the job requirements, including method and material type. 1.2. Job specifications are read and interpreted. 1.3. OH&S requirements, including personal protection needs, are observed throughout the work. 1.4. Materials are selected and inspected for quality. 1.5. Hand, power tooling and safety equipment are identified and checked for operation. 1.6. Procedures are determined to minimise waste material. 1.7. Procedures are identified for maximising energy efficiency while completing the job.
2. Remove surface rust and scale and prepare body surfaces for application of primers	2.1. Surfaces to be painted are cleaned of contaminants. 2.2. Surfaces to be painted are prepared using approved methods, materials and equipment. 2.3. Surface preparation activities are carried out according to industry regulations/guidelines, OH&S legislation, and enterprise procedures/policies. 2.4. Work is completed without causing damage to any component or system. 2.5. Waste materials are disposed of in accordance with statutory and enterprise requirements.
3. Apply primers and/or sealers	3.1. Components and ancillary fittings that can be affected by application processes are protected and/or removed and stored safely. 3.2. Primers/primer surfaces are applied using approved methods, materials and equipment. 3.3. Application activities are carried out according to industry regulations/guidelines, OH&S legislation, and enterprise procedures/policies. 3.4. Work is completed without causing damage to any component or system.
4. Prepare primed/sealed surface for refinishing	4.1. Surfaces to be refinished are prepared using approved methods, materials and equipment. 4.2. Preparation activities are carried out according to industry regulations/guidelines, OH&S legislation, and enterprise procedures/policies. 4.3. Work is completed without causing damage to any component or system.

ELEMENT	PERFORMANCE CRITERIA
	4.4. Waste materials are disposed of in accordance with statutory and enterprise requirements.
5. Clean up work area and maintain equipment	5.1. Material that can be reused is collected and stored. 5.2. Waste and scrap is removed following workplace procedures. 5.3. Equipment and work area are cleaned and inspected for serviceable condition in accordance with workplace procedures. 5.4. Unserviceable equipment is tagged and faults identified in accordance with workplace procedures. 5.5. Operator maintenance is completed in accordance with manufacturer/component supplier specifications and worksite procedures. 5.6. Tooling is maintained in accordance with workplace procedures.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- collect, organise and understand information related to work orders, plans and safety procedures for preparing substrate for refinishing
- communicate ideas and information to enable confirmation of work requirements and specifications, coordination of work with worksite supervisor, other workers and customers, and the reporting of work outcomes and problems
- plan and organise activities, including preparation and layout of worksite and obtaining of equipment and materials to avoid backtracking, workflow interruptions or wastage
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise workflow and productivity
- use mathematical ideas and techniques to calculate time, assess tolerances, apply accurate measurements, calculate material requirements and establish quality checks
- establish safe and effective work processes which anticipate and/or resolve problems and downtime, to systematically develop solutions to avoid or minimise reworking and avoid wastage
- use workplace technology related to preparation of substrate for refinishing,

REQUIRED SKILLS AND KNOWLEDGE

including the use of specialist tooling, measuring equipment and communication devices and the reporting/recording of results

Required knowledge

A working knowledge of:

- OH&S regulations/requirements, equipment, material and personal safety requirements
- environmental protection requirements/substance disposal and storage
- material safety data sheets
- technical information/manufacture/component supplier specifications
- surface preparation procedures for primers/sealers (including minor dent/surface blemish repair)
- the types and uses of cleaning agents
- types of primers and sealers
- application methods of primers/fillers/sealers, including roller application
- operating procedure of equipment for surface preparation
- wet/dry rubbing procedures
- feather edging procedures
- primer/sealed surface preparation for refinishing
- work organisation and planning processes
- enterprise quality processes

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

It is essential that competence is fully observed and there is ability to transfer competence to changing circumstances and to respond to unusual situations in the critical aspects of:

- observing safety procedures and requirements
- communicating effectively with others involved in or affected by the work
- selecting methods and techniques appropriate to the circumstances
- completing preparatory activity in a systematic manner
- preparing primed/sealed surface for refinishing to workplace and manufacturer/component supplier requirements.

Context of, and specific resources for assessment

Application of competence is to be assessed in the workplace or simulated worksite.

Assessment is to occur using standard and authorised work practices, safety requirements and environmental constraints.

Assessment is to comply with regulatory requirements, including Australian Standards.

The following resources should be made available:

- workplace location or simulated workplace
- materials relevant to preparation of substrate for refinishing
- equipment, hand and power tooling appropriate to preparation of substrate for refinishing
- activities covering mandatory task requirements
- specifications and work instructions.

Method of assessment

- Assessment must satisfy the endorsed assessment guidelines of the automotive industry's RS&R Training Package.
- Assessment methods must confirm consistency and accuracy of performance together with application of underpinning knowledge.
- Assessment must be by direct observation of tasks, with questioning on underpinning knowledge and it must also

EVIDENCE GUIDE	
	reinforce the integration of key competencies. • Assessment may be applied under project related conditions and require evidence of process. • Assessment must confirm a reasonable inference that competence is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances. • It is preferable that assessment reflects a process rather than an event and occurs over a period of time to cover varying quality circumstances. Evidence of performance may be provided by customers, team leaders/members or other persons subject to agreed authentication arrangements. • Competence in this unit may be assessed in conjunction with other functional units which together form part of the holistic work role.
Guidance information for assessment	

Range Statement

RANGE STATEMENT	
The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.	
Substrate preparation methods	Substrate preparation methods include abrasive blasting and/or sanding (wet and dry), masking, filling, spraying, rolling, application of refinishing material.
Specific requirements	Specific requirements may include in situ panels, doors, plastic components, fenders, boots and bonnets.
Variables	Other variables may include internal trim, external trim, plastics, glass fittings, mirrors, lights, accessory items, rubber seals, protective

RANGE STATEMENT	
	strips, decals and striping.
OH&S	OH&S requirements are to be in accordance with legislation/regulations/codes of practice and enterprise safety policies and procedures. This may include protective clothing and equipment, use of tooling and equipment, workplace environment and safety, handling of materials, use of fire fighting equipment, enterprise first aid, hazard control and hazardous materials and substances.
Personal protective equipment	Personal protective equipment is to include that prescribed under legislation/regulation/codes of practice and workplace policies and practices.
Safe operating procedures	Safe operating procedures are to include, but are not limited to operational risk assessment and treatments associated with vehicular movement, toxic substances, electrical safety, machinery movement and operation, manual and mechanical lifting and shifting, working in proximity to others and worksite visitors.
Emergency procedures	Emergency procedures related to this unit are to include, but are not limited to emergency shutdown and stopping of equipment, extinguishing fires, enterprise first aid requirements and worksite evacuation.
Environmental requirements	Environmental requirements are to include but are not limited to waste management, noise, dust and clean-up management.
Quality requirements	Quality requirements are to include, but are not limited to regulations, including Australian Standards, internal company quality policy and standards and enterprise operations and procedures.
Statutory/regulatory authorities	Statutory/regulatory authorities may include Federal, State/Territory and local authorities administering acts, regulations and codes of practice.
Tooling and equipment	Tooling and equipment may include hand tooling, air and power tooling, cleaning equipment, spray

RANGE STATEMENT	
	equipment and rollers.
Materials	Materials may include chemical cleaners, body fillers, primer fillers, body solder, abrasive papers, cleaning materials, masking materials, primers and etch primers.
Communications	Communications are to include, but are not limited to verbal and visual instructions and fault reporting and may include worksite specific instructions, written instructions, plans or instructions related to job/task, telephones and pagers.
Information/documents	Sources of information/documents may include: • verbal or written and graphical instructions, signage, work schedules/plans/specifications, work bulletins, memos, material safety data sheets, diagrams or sketches • safe work procedures related to preparation of substrate for refinishing • regulatory/legislative requirements pertaining to automotive painting and finishing • engineer's design specifications and instructions • organisation work specifications and requirements • instructions issued by authorised enterprise or external persons • Australian Standards.

Unit Sector(s)

Unit sector	Vehicle body
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Co-requisite units

Co-requisite units	
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Co-requisite units		

Competency field

Competency field	
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