



Australian Government

Department of Education, Employment and Workplace Relations

AURV329603FA Apply water based refinishing materials

Release: 1

AURV329603FA Apply water based refinishing materials

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers the competence required to apply water based refinishing materials to a variety of vehicle substrates and determine causes and apply rectification procedures for paint finish faults.
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Application of the Unit

Application of the unit	<p>The unit includes identification and confirmation of work requirement, preparation for work, application of materials, the rectification of faults and completion of work finalisation processes, including clean-up and documentation.</p> <p>Work requires individuals to demonstrate judgement and problem-solving skills in managing own work activities and contributing to a productive team environment.</p> <p>Work is carried out in accordance with award provisions.</p>
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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	<p>1.1. Work instructions are used to determine the job requirements, including job sheets, material type, colour, quality and quantity.</p> <p>1.2. Job specifications are read and interpreted.</p> <p>1.3. OH&S requirements, including personal protection needs, breathing apparatus and full body protection, are observed throughout the work.</p> <p>1.4. Materials are selected and inspected for quality.</p> <p>1.5. Hand, power tooling and safety equipment are identified and checked for operation.</p> <p>1.6. Procedures are determined to minimise waste material.</p> <p>1.7. Procedures are identified for maximising energy efficiency while completing the job.</p>
2. Apply water based refinishing materials by spray gun	<p>2.1. The environment for application of refinishing materials conforms to requirements for temperature, extraction of fumes and cleanliness.</p> <p>2.2. Refinishing materials are applied at manufacturer/ component supplier recommended intervals using approved methods.</p> <p>2.3. Refinishing materials are dried using approved methods and equipment.</p> <p>2.4. Paint film surface faults are removed using compounds, polishers and glazes.</p> <p>2.5. Refinishing materials are applied without causing damage to any component or system.</p> <p>2.6. The finish produced meets specifications for colour, texture, depth and gloss and is contaminant-free, blending into the surrounding surfaces.</p> <p>2.7. Surface refinishing is completed within approved timeframes.</p> <p>2.8. Application activities are carried out according to industry regulations/guidelines, OH&S legislation, and enterprise procedures/policies.</p>
3. Identify paint faults, causes and rectification procedures	<p>3.1. Paint faults are identified according to industry and workplace procedures.</p> <p>3.2. Paint fault causes are determined according to industry and workplace procedures.</p> <p>3.3. Rectification procedures are determined according to fault and type of finish material according to industry</p>

ELEMENT	PERFORMANCE CRITERIA
	<p>standard practices and workplace requirements.</p> <p>3.4. Identification and determination activities are carried out according to industry regulations/guidelines, OH&S legislation, and enterprise procedures/policies.</p>
4. Rectify and touch up paint faults	<p>4.1. Materials to restore paintwork to as new condition are determined from industry and manufacturer/component supplier standards.</p> <p>4.2. Damaged paintwork is rectified to blend with existing paintwork on vehicle.</p> <p>4.3. All rectification operations are carried out according to industry regulations/guidelines, OH&S legislation, and enterprise procedures/policies.</p> <p>4.4. Paint faults are rectified without causing damage to any component or system.</p>
5. Clean up work area and maintain equipment	<p>5.1. Material that can be reused is collected and stored.</p> <p>5.2. Waste material is removed and disposed of or stored according to statutory and workplace procedures.</p> <p>5.3. Spray equipment is cleaned as specified by manufacturer/ component supplier and/or workplace policy and procedures.</p> <p>5.4. Work area is cleaned and inspected for serviceable condition in accordance with workplace procedures.</p> <p>5.5. Unserviceable equipment is tagged and faults identified in accordance with workplace procedures.</p> <p>5.6. Operator maintenance is completed in accordance with manufacturer/component supplier specifications and worksite procedures.</p> <p>5.7. Tooling is maintained in accordance with workplace procedures.</p>

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 applying water based refinishing materials

REQUIRED SKILLS AND KNOWLEDGE

- 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
- 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 mathematical ideas and techniques to calculate time, apply accurate measurements, calculate material requirements and establish quality checks
- use workplace technology related to application of water based refinishing materials, including the use of specialist equipment, measuring equipment, computerised technology 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 requirements
- material safety data sheets
- types of water based refinishing materials
- application methods
- paint surface fault identification and rectification procedures
- drying methods for water based material
- types of spray guns
- spray gun operation and spraying techniques
- spray gun cleaning methods
- work organisation and planning processes
- enterprise quality processes

Evidence Guide

EVIDENCE GUIDE	
<p>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.</p>	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	<p>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:</p> <ul style="list-style-type: none"> • 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 water based paint • applying water based refinishing materials • identifying paint faults and determining rectification procedures • rectifying paint faults • applying environmental procedures.
Context of, and specific resources for assessment	<p>Application of competence is to be assessed in the workplace or simulated worksite.</p> <p>Assessment is to occur using standard and authorised work practices, safety requirements and environmental constraints.</p> <p>Assessment is to comply with regulatory requirements, including Australian Standards.</p> <p>The following resources should be made available:</p> <ul style="list-style-type: none"> • workplace location or simulated workplace • materials relevant to application of water based refinishing materials • equipment, hand and power tooling appropriate to application of water based refinishing materials • activities covering mandatory task requirements • specifications and work instructions.
Method of assessment	<ul style="list-style-type: none"> • Assessment must satisfy the endorsed assessment guidelines of the automotive industry's RS&R Training Package. • Assessment methods must confirm consistency and

EVIDENCE GUIDE	
	<p>accuracy of performance together with application of underpinning knowledge.</p> <ul style="list-style-type: none"> • Assessment must be by direct observation of tasks, with questioning on underpinning knowledge and it must also 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	
<p>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.</p>	
Refinishing materials	Refinishing materials include water based coatings, acrylic enamel clear, acrylic enamel hardeners and reducers.
Refinishing methods	Refinishing methods include spray gun selection, equipment protection methods, various spraying techniques, drying procedures, paint mixing,

RANGE STATEMENT	
	compound polishing and detailing of surfaces.
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 various spray guns, air pressure regulators, air compressors,

RANGE STATEMENT	
	spray booths, baking ovens, water borne drying equipment, strainers, measuring sticks, ford cup and safety equipment.
Materials	Materials may include polishing buffs and pads, tac rags, cleaning solvents, glazes, compounds and cleaning materials.
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	<p>Sources of information/documents may include:</p> <ul style="list-style-type: none"> • 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 application of water based refinishing materials • regulatory/legislative requirements for 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		

Competency field

Competency field	
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