

AURVTP3023 Mix and apply clear over-base refinishing materials in two-component systems

Release 1



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Modification History

Release	Comment
Release 1	Replaces AURV329603CA Apply clear over base refinishing materials (two component system)
	Elements and Performance Criteria updated to reflect mixing of paint products

Unit Descriptor

Unit descriptor	This unit describes the performance outcomes required to mix and apply clear over-base refinishing materials in two-component systems to a variety of vehicle bodies and substrates by spray-gun application.
	The unit involves determining causes of paint finish faults and suitable rectification procedures. The unit also involves preparing for work and completing work finalisation processes, including clean-up and workplace documentation.
	Licensing, legislative, regulatory or certification requirements may apply to this unit in some jurisdictions. Users are advised to check with the relevant regulatory authority.

Application of the Unit

Application of the unit	Work applies to refinishing technicians in a repair environment and the application of clear over-base materials to a range of vehicles.
	Work requires individuals to demonstrate judgement and problem-solving skills in managing own work activities and contributing to a productive team environment.

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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

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 required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge and/or 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 and workplace <i>communications</i> are used to determine job requirements, including material type, colour, quality and quantity
	1.2. Workplace health and safety (WHS) requirements, including personal protective equipment (PPE) needs, breathing apparatus and full body protection, are observed throughout the work
	1.3. Refinishing materials are selected and inspected for quality
	1.4. Refinishing <i>tools and equipment</i> , including safety equipment, are identified and checked for correct operation
	1.5. Refinishing methods are determined to minimise waste material
	1.6. Painting procedures are identified to maximise energy efficiency while completing the job
	1.7. Workplace <i>emergency procedures</i> are identified and followed when required
2. Mix clear over-base pain colours	2.1. Mixing is performed according to paint manufacturer recommended specifications
	2.2. Mixing activities are carried out according to environmental requirements; industry, statutory and regulatory authorities' guidelines; WHS legislation; and workplace safe operating procedures and policies
	2.3. Clear over-base paints are mixed without causing damage to other components or systems
3. Apply clear over-base refinishing materials by spray-gun	3.1. Refinishing materials are applied using <i>processes</i> and <i>information</i> from the paint supplier and their recommended methods
	3.2. Refinishing materials are dried using approved methods and equipment
	3.3. Techniques are used that ensure that finish produced meets specifications for colour, texture, depth and gloss and is contaminant-free, blending into the surrounding surfaces
	3.4. Surface refinishing is completed within approved time frames
	3.5.Application activities are carried out according to industry regulations and guidelines, WHS legislation, and workplace policies and procedures
4. Rectify paint faults	4.1.Paint faults are identified according to industry and workplace procedures
	4.2. Paint fault causes are determined according to industry and

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	workplace procedures
	4.3. Paint surface faults are removed using compounds, polishes and glazes
	4.4.Rectification procedures are determined according to industry standard and workplace quality requirements
5. Rectify and touch up paint faults of clear over-base refinishing	5.1. <i>Materials</i> to restore paintwork to as new condition are determined from industry and paint manufacturer supplier standards
materials	5.2. Damaged paintwork is rectified to blend with existing paintwork <i>quality</i> on vehicle
	5.3. Rectification operations are carried out according to industry regulations and guidelines, WHS legislation, and workplace policies and procedures; and without causing damage to components or systems
6. Clean up work area and maintain equipment	6.1.Material that can be reused is collected and stored according to workplace sustainability practices
	6.2. Waste materials are removed and disposed of or stored according to statutory and workplace procedures
	6.3. Spray equipment is cleaned according to manufacturer and component supplier and workplace policies and procedures
	6.4. Work area is cleaned and inspected for serviceable condition according to workplace procedures
	6.5. Faulty equipment is identified and tagged according to workplace procedures
	6.6. Operator maintenance is completed according to manufacturer and component supplier specifications and workplace procedures
	6.7. Tools are maintained according to workplace procedures

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Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- communication skills to follow workplace verbal instructions
- initiative and enterprise skills to recognise a workplace problem or potential problem and take action
- learning skills to identify sources of information, assistance and expert knowledge to expand skills, knowledge and understanding
- literacy skills to:
 - read and follow information in written job instructions, specifications, standard operating procedures, charts, lists, drawings and other reference documents
 - obtain and record measurements
 - · document required paint and consumable parts
- numeracy skills to calculate paint quantity, mixing ratios and drying times
- planning and organising skills to:
 - plan, use and follow job specifications when mixing and applying clear over-base refinishing materials to components
 - plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed on time
 - identify risk factors and take action to minimise them
- problem-solving skills to:
 - refer problems outside area of responsibility to appropriate person
 - seek information and assistance as required to solve problems
- self-management skills to:
 - select and use appropriate clear over-base refinishing materials and equipment, processes and procedures
 - recognise own limitations and seek advice
 - follow workplace policies and documentation, such as codes of practice or original equipment manufacturer (OEM) repair procedures
- teamwork skills to apply knowledge of own role to complete activities efficiently to support team activities and tasks
- technical skills to use paint workplace tools and equipment relating to refinishing vehicles or components
- technology skills to:
 - operate vehicle painting and refinishing equipment
 - use technology to collect paint product information

Required knowledge

WHS regulations, requirements, equipment and material relating to mixing and applying

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REQUIRED SKILLS AND KNOWLEDGE

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

clear over-base refinishing materials, including personal safety requirements

- environmental protection requirements, and substance disposal and storage requirements
- material safety data sheets (MSDS)
- types of clear over-base refinishing materials in two-component systems
- mixing methods
- · application methods
- paint surface fault identification and rectification procedures
- drying methods for clear over-base refinishing material in two-component systems
- types of spray-guns
- spray-gun operation procedures and spraying techniques
- spray-gun cleaning methods
- work organisation and planning processes
- · workplace quality processes

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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, the Range Statement and the Assessment Guidelines for the Training Package.

Guidennes for the Training 1	ackage.
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy all of the requirements of the performance criteria and required skills and knowledge.
	A person who demonstrates competency in this unit must be able to:
	 observe safety procedures and requirements select methods and techniques appropriate to the circumstances complete preparatory activity in a systematic manner prepare clear over-base paint in two-component systems apply clear over-base refinishing materials in two-component systems identify paint faults and determine rectification procedures rectify paint faults apply environmental procedures.
Context of, and specific resources for assessment	Competency is to be assessed in the workplace or a simulated workplace environment that accurately reflects performance in a real workplace setting.
	Assessment is to occur:
	 using standard workplace practices and procedures following safety requirements applying environmental constraints.
	Assessment is to comply with relevant: regulatory requirements Australian standards industry codes of practice.
	The following resources must be made available for the assessment of this unit:
	 workplace location or simulated workplace materials relevant to application of clear over-base refinishing materials equipment, hand and power tools appropriate to application of

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EVIDENCE GUIDE

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Overview of assessment	
	clear over-base refinishing materials specifications and work instructions.
Method of assessment	Assessment must satisfy the endorsed Assessment Guidelines of this Training Package.
	Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with the application of required skills and knowledge.
	Assessment methods must be by direct observation of tasks and include questioning on required skills and knowledge to ensure correct interpretation and application.
	Competence in this unit may be assessed in conjunction with other units which together form part of a holistic work role.
	Where applicable, reasonable adjustment must be made to work environments and training situations to accommodate the needs of diverse clients.
	Assessment processes and techniques must be culturally sensitive and appropriate to the language, literacy and numeracy capacity of the candidate and the work being performed.

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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, 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.

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Communications may	verbal instructions
include:	• visual instructions
	worksite-specific instructions
	• written instructions
	job and task sheets
	• telephones.
WHS requirements:	are those prescribed under legislation, regulations, codes of practice and policies and procedures
	• may include:
	 personal protective clothing and equipment
	 use of tools and equipment
	safe handling of material
	use of fire-fighting equipment
	workplace first aid equipment
	 hazard control, including control of hazardous materials and toxic substances.
Personal protective equipment:	is that prescribed under legislation, regulations, codes of practice, and workplace policies and practices
1 1	• may include:
	eye protection
	 personal protective clothing
	• gloves
	 respirators
	• safety shoes
	air feed mask.
Definishing materials	solid, metallic, pearl two-pack base coat
Refinishing materials may include:	clear two-pack acyclic enamel
may metace.	• hardener
	• paint reducer.
Tools and equipment may	air pressure regulators
include:	• air compressors
	• spray booths
	baking ovens
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	and regional contexts) may also be included.
	heating and lighting systems
	• strainers
	measuring sticks
	• ford cups
	safety equipment
	tinting machines
	hand paddles
	nylon stocking weave
	viscosity measuring equipment
	high-volume low-pressure spray-guns
	gravity feed spray-guns
	suction feed spray-guns
	personal protective equipment
	polishing and cleaning equipment.
Refinishing methods may	spray-gun selection
include:	equipment protection methods
	various spraying techniques
	drying procedures
	paint mixing
	compound polishing
	detailing of surfaces.
Emergency procedures	emergency shutdown
may include:	extinguishing fires
	workplace first aid requirements
	workplace evacuation.
Environmental	waste management
requirements may	noise control
include:	dust control
	clean-up management.
Statutory and regulatory	statutory and regulatory regulations
authority guidelines may	industry codes of practice.
include:	•
	workplace safety policies and procedures
Safe operating	 workplace safety policies and procedures operational risk assessment
procedures may include:	operational fish assessment

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the item, and local industry and regional contexts) may also be included.		
	toxic substances	
	electrical safety	
	machinery movement and operation	
	manual and mechanical lifting and shifting	
	working in proximity to others	
	workplace visitors.	
Application processes	• conform to:	
must:	• temperature	
	extraction of fumes	
	cleanliness requirements	
	not cause damage to other components or systems.	
Information may include:	verbal and written information	
	graphical instructions	
	• signage	
	work schedules, plans and specifications	
	work bulletins and memos	
	• MSDS	
	diagrams and sketches	
	safe work procedures relating to colour matching of multi-layer and clear over-base colours	
	regulatory and legislative requirements	
	automotive painting and finishing code of practice	
	engineer's design specifications	
	workplace work specifications	
	instructions issued by authorised workplace or external persons	
	Australian standards.	
Materials may include:	polishing buffs and pads	
·	• tac-rags	
	cleaning solvents	
	polishes and glazes	
	compounds and cleaning materials	
	two-pack urethane acrylic enamels	
	clear acrylic lacquers	
	• paint thinners	
	paint reducers	

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	cleaning materials.
Quality may include:	industry standards
	workplace standards
	Australian standards
	quality policy
	workplace operations and procedures.

Unit Sector(s)

Competency field	Vehicle Body
Unit sector	Technical – Paint

Custom Content Section

Not applicable.

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