Australian Government

# AURVNA4008 Apply automotive body and paint knowledge to vehicle loss assessment

**Release 2**

INDUSTRY SKILLS COUNCILS
Creating Australia's Future

# AURVNA4008 Apply automotive body and paint knowledge to vehicle loss assessment

## Modification History

| Release | Comment |
|---|---|
| **Release 2** | Replaces AURVNA4008 Apply automotive body and paint knowledge to vehicle loss assessment (Release 1)<br>Reference to OHS legislation replaced with new WHS legislation |

## Unit Descriptor

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| **Unit descriptor** | This unit describes the performance outcomes required to apply automotive body and paintwork knowledge to identify body and paint damage resulting from a vehicular accident.<br>Licensing, legislative, regulatory or certification requirements may apply to this unit in some jurisdictions. Users are advised to check with their relevant regulatory authority. |

## Application of the Unit

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| **Application of the unit** | Work involves applying specialist body and paint knowledge to a vehicle loss assessment in the loss assessment environment. Vehicles and components may include light vehicles, commercial vehicle, heavy vehicles, agricultural and plant equipment, recreational vehicles and motorcycles. |

## Licensing/Regulatory Information

Refer to Unit Descriptor.

## Pre-Requisites

Not applicable.

## Employability Skills Information

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| **Employability skills** | This unit contains employability skills. |

## Elements and Performance Criteria Pre-Content

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| 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. |

# Elements and Performance Criteria

| ELEMENT | PERFORMANCE CRITERIA |
|---|---|
| 1. Develop and apply an understanding of automotive paintwork knowledge | 1.1. Knowledge of operating principles of ***paint preparation, application***, and refinishing process and techniques, including ***paint products*** and imperfection identification is developed<br>1.2. Paint preparation and paint product knowledge is applied to loss assessment processes<br>1.3. Paintwork damage is identified |
| 2. Develop and apply an understanding of automotive body knowledge | 2.1. Knowledge of operating principles of ***vehicle structure***, is developed<br>2.2. Knowledge of operating principles of vehicle ***supplementary restraint systems*** (SRS***)*** is developed<br>2.3. Knowledge of operating principles of ***vehicle body repair procedures***, is developed<br>2.4. Knowledge of vehicle structure, SRS and body repair procedures is applied to loss assessment processes, procedures and policies<br>2.5. Bodywork damage is identified |
| 3. Develop and apply an understanding of advanced specialist vehicle knowledge | 3.1. Knowledge of ***specific vehicle types*** is developed, clarified where necessary, and applied to loss assessment processes, procedures and policies<br>3.2. Knowledge of ***latest technology*** relating to automotive paint and bodywork is developed, clarified where necessary, and applied loss assessment processes, procedures and policies<br>3.3. ***Research techniques*** and advanced specialist vehicle knowledge is employed in order to identify vehicle damage |

# Required Skills and Knowledge

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

**Required skills**

- technical skills to:
  - apply paint colour matching techniques, including:
    - eye
    - formula
    - colour cards
    - colour spectrometer
  - identify body and paint vehicle damage
- communication skills to engage with repairers and specialist providers
- literacy skills to:
  - apply loss assessment processes, procedures and policies
  - research, interpret and apply automotive paintwork, body, and advanced specialist vehicle knowledge
- numeracy skills to interpret technical measurements
- problem-solving skills to clarify problems relating to:
  - latest automotive technology
  - specific vehicle types
  - vehicle body
  - vehicle paintwork
- technology skills to use communication devices and computerised equipment to research advanced specialist vehicle information

**Required knowledge**

- technical knowledge of motor vehicle:
  - operating principles of paint preparation and refinishing process and techniques, including:
    - colour matching
    - imperfection identification
    - paint products
  - operating principles of vehicle airbags
  - operating principles of vehicle structural repair and procedures, including:
    - measuring and alignment systems
    - trimming techniques
    - welding, bonding and fastening methods and types
  - operating principles of vehicle structure, including:
    - alloys
    - metals

    - other materials
  - paintwork and body, including:
    - damage and faults
    - dismantling and repair methods
- technical knowledge relating to a specific vehicle type
- technical knowledge of latest technology relating to vehicle paintwork and body repair, including airbags, composite materials, high-strength steels, waterborne paints, and painting preparation and procedures
- vehicle inspection and damage assessment procedures and methodologies, including repair set-up and dismantling procedures
- current assessing and quoting methodologies
- relevant automotive websites to locate current best practice and future trends information
- general insurance industry knowledge, including relevant sections of:
  - contract and insurance law
  - Competition and Consumer Act
  - Insurance Contracts Act
  - intellectual property
  - Motor Vehicle Insurance and Repair Industry Code of Conduct
  - personal legal liability
  - privacy law
  - State or Territory Fair Trading Act
- methods of sourcing manufacturer and component supplier specifications, including workshop manuals and repair guides
- applicable commonwealth, state or territory laws, regulations and standards relating to vehicle loss assessment and reporting requirements, including:
  - Competition and Consumer Act
  - copyright law
  - environmental regulations
  - legislation
  - Workplace Health and Safety (WHS) Act
- workplace policies and procedures relating to vehicle loss assessment and reporting requirements, including:
  - quality requirements
  - recording and reporting procedures

# Evidence Guide

| **Evidence Guide** | |
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| 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** | 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.<br>A person who demonstrates competency in this unit must be able to:<br>• apply automotive paintwork and body knowledge to loss assessment processes, procedures and policies<br>• apply knowledge of latest automotive technology and of specific vehicle types to loss assessment processes, procedures and policies<br>• identify paint and body damage. |
| **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.<br>Assessment is to occur:<br>• using standard workplace practices and procedures<br>• following safety requirements<br>• applying environmental constraints.<br>Assessment is to comply with relevant:<br>• regulatory requirements<br>• Australian standards<br>• industry codes of practice.<br>The following resources must be made available for the assessment of this unit:<br>• a range of vehicles with paint and body damage<br>• relevant information, including manufacturer and component supplier specifications, workshop manuals and repair guides<br>• relevant materials, resources and safety equipment<br>• relevant WHS materials, including workshop WHS procedures. |

| **Evidence Guide** | |
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| **Method of assessment** | Assessment must satisfy the endorsed Assessment Guidelines of this Training Package.<br><br>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.<br><br>Assessment methods must be by direct observation of tasks and include questioning on required skills and knowledge to ensure correct interpretation and application.<br><br>Competence in this unit may be assessed in conjunction with other units which together form part of a holistic work role.<br><br>Where applicable, reasonable adjustment must be made to work environments and training situations to accommodate the needs of diverse clients.<br><br>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. |

# Range Statement

| **Range Statement** | |
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| 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. | |
| ***Paint preparation, application*** may include: | • colour matching<br>• dent filling<br>• elcometer<br>• paint code list<br>• paint mixing<br>• masking<br>• surface preparation, including:<br>  • sanding<br>  • degreasing. |
| ***Paint products*** may include: | • acrylic enamel<br>• air dry enamel<br>• clear over base (COB)<br>• fillers<br>• multi-layer<br>• pearls<br>• polyurethane<br>• special effects<br>• two-pack paint<br>• waterborne paint. |
| ***Vehicle structure*** may include: | • alloys<br>• collision energy management<br>• composite materials<br>• glass components<br>• metals<br>• plastics<br>• vehicle structural integrity and component interrelationship. |

| **Range Statement** | |
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| ***SRS*** may include: | • airbag systems, including:<br>  • console<br>  • curtain<br>  • dash<br>  • knee<br>  • pillar<br>  • seat<br>  • side<br>  • steering wheel<br>• seat belt tensioners. |
| ***Vehicle body repair procedures*** may include: | • alignment systems<br>• measuring systems<br>• methods and types of:<br>  • bonding<br>  • fastening<br>  • welding<br>• trimming techniques. |
| ***Specific vehicle types*** may include: | • agricultural and plant equipment<br>• heavy vehicles<br>• commercial vehicles<br>• light vehicles<br>• motorcycles<br>• recreational vehicles. |
| ***Latest technology*** may include: | • alloy steel technology<br>• composites materials<br>• electric and fuel isolating systems<br>• high strength steels<br>• painting preparation and procedures. |
| ***Research techniques*** may include: | • internet<br>• reference material including:<br>  • paint code list<br>  • repair guides<br>  • workshop manuals<br>• subject matter experts. |

# Unit Sector(s)

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| **Competency field** | Vehicle Body |
| **Sector** | Loss Assessment or Repair Quoting |

# Custom Content Section

Not applicable.