



**Australian Government**

# **AURVTN009 Clean vehicle engines and engine components**

**Release: 1**

## AURVTN009 Clean vehicle engines and engine components

### Modification History

| Release   | Comment                 |
|-----------|-------------------------|
| Release 1 | New unit of competency. |

### Application

This unit describes the performance outcomes required to wash and clean vehicle engines, engine bays and components. It involves preparing for the task, selecting and using cleaning equipment and materials, protecting engine components during cleaning process, and completing workplace processes and documentation.

It applies to those working in the automotive detailing industry.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

### Competency Field

Vehicle Body

### Unit Sector

Technical - Body

### Elements and Performance Criteria

| Elements                                          | Performance Criteria                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes.         | Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.                                                                                                                             |
| 1. Prepare to clean vehicle engine and engine bay | 1.1 Job requirements are determined from workplace instructions<br>1.2 Manufacturer recommended cleaning methods, workplace procedures and cleaning material safety data sheets (SDS) are sourced and interpreted<br>1.3 Cleaning materials are selected, inspected for quality and suitability, and required quantities are calculated |

| Elements                                  | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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|                                           | <p>1.4 Hazards associated with the work are identified and risks are managed</p> <p>1.5 Tools and equipment, including personal protective equipment (PPE), are selected and checked for serviceability</p> <p>1.6 Work is planned to identify cleaning methods, minimise waste, and prevent damage to vehicle</p>                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2. Wash and clean engine and components   | <p>2.1 Cleaning materials, tools and equipment are used according to manufacturer recommended cleaning methods, workplace procedures, and <b><i>safety and environmental requirements</i></b></p> <p>2.2 Engine, components and engine bay are washed and cleaned according to workplace procedures and customer requirements</p> <p>2.3 <b><i>Components</i></b> are protected according to workplace instructions, and washing and cleaning are completed without causing damage to vehicle or engine</p> <p>2.4 Engine, components and engine bay are dried according to workplace procedures</p> <p>2.5 Engine and components are inspected and tested to ensure normal operation after the washing and drying process</p> |
| 3. Complete work processes                | <p>3.1 Final inspection is made to ensure work meets workplace expectations and engine is presented ready for use</p> <p>3.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected and stored</p> <p>3.3 Tools and equipment are checked, reported if faulty, and stored according to workplace procedures</p> <p>3.4 Workplace documentation is processed according to workplace procedures</p>                                                                                                                                                                                                                                                                      |

## Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance and are not explicit in the performance criteria.

| Skills              | Description                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------------------|
| Learning skills to: | <ul style="list-style-type: none"> <li>locate appropriate sources of information efficiently.</li> </ul>   |
| Writing skills to:  | <ul style="list-style-type: none"> <li>legibly and accurately fill out workplace documentation.</li> </ul> |

| Skills                             | Description                                                                                                                                                                                |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Oral communication skills to:      | <ul style="list-style-type: none"><li>clarify instructions and procedures</li><li>clearly report issues or outcomes.</li></ul>                                                             |
| Planning and organising skills to: | <ul style="list-style-type: none"><li>plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.</li></ul> |

## Range of Conditions

This section specifies work environments and conditions that may affect performance.

Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Bold italicised wording, if used in the performance criteria, is detailed below.

|                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><i>Safety and environmental requirements</i></b> must include: | <ul style="list-style-type: none"><li>work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for:<ul style="list-style-type: none"><li>selecting and using PPE</li><li>using tools and equipment</li><li>using SDS for cleaning products</li><li>handling and storing cleaning material</li></ul></li><li>environmental requirements, including procedures for trapping, storing and disposing of waste materials and cleaning chemicals.</li></ul> |
| <b><i>Components</i></b> must include:                            | <ul style="list-style-type: none"><li>electrical and electronic components</li><li>air induction inlets</li><li>fuel components.</li></ul>                                                                                                                                                                                                                                                                                                                                                            |

## Unit Mapping Information

Equivalent to AURVTN2009 Clean vehicle engine and engine compartment

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>