



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 1.2 Manufacturer recommended cleaning methods, workplace procedures and cleaning material safety data sheets (SDS) are sourced and interpreted 1.3 Cleaning materials are selected, inspected for quality and suitability, and required quantities are calculated

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

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:	locate appropriate sources of information efficiently.
Writing skills to:	legibly and accurately fill out workplace documentation.

Skills	Description
Oral communication skills to:	- clarify instructions and procedures - clearly report issues or outcomes.
Planning and organising skills to:	plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.

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.

<i>Safety and environmental requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - selecting and using PPE - using tools and equipment - using SDS for cleaning products - handling and storing cleaning material - environmental requirements, including procedures for trapping, storing and disposing of waste materials and cleaning chemicals.
<i>Components</i> must include:	- electrical and electronic components - air induction inlets - fuel components.

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>

Assessment Requirements for AURVTN009 Clean vehicle engines and engine components

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Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standard defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- clean vehicle engine, components and engine bay on three different vehicles.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to cleaning vehicle engines and engine components, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - using tools and equipment
 - using safety data sheets (SDS) for cleaning products
 - handling and storing cleaning material
- environmental requirements, including procedures for trapping, storing and disposing of waste materials and cleaning chemicals
- methods and techniques for cleaning vehicle engine, components and engine bay, including:
 - cleaning materials and their recommended applications
 - cleaning equipment type and correct use
 - washing and drying methods and procedures
- procedures for protecting vehicle electrical, electronic, air intake and fuel components during cleaning process
- procedures for final inspection of engine and engine components.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the vehicle engine and engine components that they have cleaned, e.g. work orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- automotive workplace or simulated workplace
- workplace instructions
- PPE required to clean vehicle engine, components and engine bay
- SDS for cleaning products
- materials required to wash and clean engine, components and engine bay
- three different vehicles requiring their engine, components and engine bay to be cleaned
- tools, equipment and materials appropriate for washing and cleaning engines, components and engine bay.

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