



Australian Government

AURTTA009 Carry out mechanical pre-repair operations

Release: 1

AURTTA009 Carry out mechanical pre-repair operations

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to prepare and clean mechanical components. It involves preparing for the task, cleaning and tagging equipment for repair or storage, and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The pre-repair operations include those of agricultural machinery, heavy commercial vehicles, light vehicles, mobile plant machinery or motorcycles.

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

Competency Field

Mechanical Miscellaneous

Unit Sector

Technical

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 undertake pre-repair operations	1.1 Job requirements are determined from workplace instructions 1.2 Pre-repair procedures and information are sourced and interpreted 1.3 <i>Cleaning options</i> are analysed and selected 1.4 Hazards associated with the work are identified and risks are managed

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.
	1.5 Tools and equipment are selected and checked for serviceability
2. Clean and tag mechanical component prior to repair or storage	2.1 Component is cleaned according to manufacturer specifications, workplace procedures, and <i>safety and environmental requirements</i>, and without causing damage to component or system 2.2 <i>Cleaning materials</i> and equipment are used according to manufacturer specifications and workplace procedures 2.3 Component is tagged and prepared for further repair procedures or treated with rust prevention material for storage 2.4 Used cleaning materials and waste materials are safely disposed of according to manufacturer specifications, workplace procedures, and safety and environmental requirements
3. Complete work processes	3.1 Final inspection is made to ensure work is to workplace expectations and component is presented ready for repair or storage 3.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 3.3 Tools and equipment are checked and stored according to workplace expectations 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.
Reading skills to:	- interpret information from manufacturer and workshop literature when seeking pre-repair and cleaning specifications and procedures - interpret instructions from cleaning agent information - interpret cleaning equipment operating procedures.
Writing skills to:	legibly and accurately fill out workplace documentation, including component identification tags.

Skills	Description
Oral communication skills to:	clarify instructions.
Numeracy skills to:	use basic mathematical operations, including addition and subtraction, to calculate chemical mixing volumes and proportions from manufacturer specifications.
Planning and organising skills to:	plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.
Technology skills to:	operate cleaning equipment.

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>Cleaning options</i> must include at least two of the following:	- steam cleaning - high pressure washing - manual washing - sand or bead blasting.
<i>Safety and environmental requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - operating cleaning equipment - using hazardous chemicals - selecting and using personal protective equipment (PPE), including safety glasses, gloves and protective clothing - environmental requirements, including procedures for trapping, storing and disposing of cleaning agents and residue released during the cleaning process.
<i>Cleaning materials</i> must include:	- chemical cleaning agents, including dewaxing, detergents, degreasers and special purpose agents - rust prevention material.

Unit Mapping Information

Equivalent to AURTTA2009 Carry out pre-repair operations (mechanical)

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 AURTTA009 Carry out mechanical pre-repair operations

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Performance Evidence

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

- carry out mechanical pre-repair operations to three of the following vehicle components:
 - transmission
 - engine
 - steering and suspension system
 - final drive
 - wheels and hubs
 - chassis
 - hydraulic system
 - fuel system.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to carrying out mechanical pre-repair operations, including procedures for:
 - operating cleaning equipment
 - using hazardous chemicals
 - selecting and using personal protective equipment (PPE), including safety glasses, gloves and protective clothing
- environmental requirements, including procedures for trapping, storing and disposing of cleaning agents and residue released during the cleaning process
- procedures for identifying and operating cleaning equipment, including:
 - steam cleaning

- high pressure washing
- manual washing
- sand or bead blasting
- types, application and safe handling of cleaning agents
- component cleaning procedures
- component dismantling procedures
- tagging and storage procedures for cleaned 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 components that they have worked on, e.g. repair 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 repair workplace or simulated workplace
- workplace instructions
- manufacturer cleaning agent specifications
- area and equipment, including PPE, for safely cleaning vehicle components
- vehicle components for pre-repair operations as specified in the performance evidence
- tools, equipment and materials appropriate for carrying out mechanical pre-repair operations.

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