



Australian Government

AURETR001 Remove and tag automotive electrical system components

Release: 1

AURETR001 Remove and tag automotive electrical system components

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to identify, remove and tag a range of automotive electrical system components. It involves preparing for the work, removing and tagging components by title, job number and application, and completing workplace processes and documentation.

It applies to those undertaking a Vocational Education and Training in Schools (VETiS) or pre-vocational qualification as preparation to entering the automotive service and repair or automotive manufacturing industry. The unit is designed for use in a highly supervised context and is not suitable for use in a vocational qualification.

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

Competency Field

Electrical

Unit Sector

Technical - Electrical and Electronic

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 remove and tag electrical system	1.1 Task instructions are interpreted and electrical system to be worked on is identified

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.
component	1.2 Electrical system component information is accessed and interpreted 1.3 Potential hazards and risks associated with task are identified and reported to workplace supervisor 1.4 Tools and equipment are selected and checked for serviceability
2. Remove component	2.1 Component for removal is identified 2.2 Component is removed according to manufacturer specifications, workplace procedures, and <i>safety and environmental requirements</i> , and without causing damage to components or systems 2.3 Removed component is inspected and findings are recorded according to workplace procedures
3. Tag component	3.1 Tagging procedures are identified 3.2 Removed component is legibly <i>tagged</i> according to workplace procedures and without causing damage to components or systems 3.3 Tagged component is stored according to workplace procedures
4. Complete work processes	4.1 Final inspection is made to ensure work meets task instruction and workplace standards 4.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected and stored 4.3 Tools and equipment are checked, stored and any faulty electrical equipment is identified, tagged and isolated according to workplace procedures 4.4 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 information.
Reading skills to:	interpret key information from manufacturer and workshop literature relating to electrical system components.

Skills	Description
Writing skills to:	legibly and accurately fill out workplace documentation, including tags, using correct industry terminology and conventions.
Numeracy skills to:	interpret numerical information in task instructions and part numbers.

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 identifying hazards and controlling risks associated with wearing jewellery while working around high current electrical circuits - environmental requirements, including procedures for disposing of waste materials.
<i>Tagged</i> must include:	- component title - component condition - job number.

Unit Mapping Information

Equivalent to AURETR1001 Remove and tag automotive electrical system components

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 AURETR001 Remove and tag automotive electrical system components

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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:

- remove and tag six of the following automotive electrical system components:
 - main fuse panel
 - battery
 - starter motor
 - alternator
 - ignition system
 - engine control module
 - body control module
 - flasher can relay
 - brake stop lamp switch
 - electric fuel pump.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to removing and tagging automotive electrical system components, including procedures for identifying hazards and controlling risks associated with wearing jewellery while working around high current electrical circuits
- environmental requirements, including procedures for disposing of waste materials
- types and location of automotive electrical system components, including:
 - main fuse panels
 - batteries

- starter motors
- alternators
- ignition systems
- engine control modules
- body control modules
- flasher can relays
- brake stop lamp switches
- electric fuel pumps
- procedures for removing and tagging electrical system components, including:
 - component removal
 - component inspection
 - component tagging, including key information required on tags
 - component storage.

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 electrical system components that they have removed and tagged, 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 workplace or simulated workplace
- task instructions
- manufacturer specifications for the electrical system components
- one vehicle or machinery with the electrical system components specified in the performance evidence requiring removal and tagging
- tools, equipment and materials appropriate for removing and tagging electrical system components.

Links

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