



**Australian Government**

# **AURETR003 Identify automotive electrical systems and components**

**Release: 1**

# AURETR003 Identify automotive electrical systems and components

## Modification History

Release	Comment
Release 1	New unit of competency.

## Application

This unit describes the performance outcomes required to identify the function and basic operation of a range of vehicle electrical systems and components. It involves preparing for the task, locating information on the systems and components, and demonstrating knowledge of electrical systems.

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. Locate and identify electrical system and its	1.1 Task instruction is interpreted and vehicle or machinery to be worked on is identified

<b>Elements</b>	<b>Performance Criteria</b>
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.
components	1.2 Technical information regarding electrical system to be identified is located 1.3 Electrical system major components are located and identified on vehicle or machinery according to <i>safety requirements</i> and task instructions
2. Demonstrate knowledge of electrical system	2.1 System function is determined from technical information and demonstrated during workplace activities 2.2 System major component function and basic operation are determined from technical information and demonstrated during workplace activities 2.3 System relationship to vehicle or machinery operation is determined from technical information, and knowledge of relationship is demonstrated during workplace activities

## 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.

<b>Skills</b>	<b>Description</b>
Learning skills to:	<ul style="list-style-type: none"> <li>locate appropriate information.</li> </ul>
Oral communication skills to:	<ul style="list-style-type: none"> <li>clarify instructions and information.</li> </ul>
Numeracy skills to:	<ul style="list-style-type: none"> <li>use and communicate basic numerical information relating to automotive electrical systems and components.</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 requirements</i></b> must	<ul style="list-style-type: none"> <li>work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for:</li> </ul>
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include:	<ul style="list-style-type: none"><li>• selecting and using personal protective equipment (PPE)</li><li>• using tools and equipment</li><li>• following workplace safety procedures.</li></ul>
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## Unit Mapping Information

Equivalent to AURETR1003 Apply automotive electrical system fundamentals

## Links

Companion Volume implementation guides are found in VETNet -

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