

AURETR016 Read and apply vehicle wiring schematics and drawings

Release: 1

AURETR016 Read and apply vehicle wiring schematics and drawings

Modification History

Release	Comment	
Release 1	New unit of competency.	

Application

This unit describes the performance outcomes required to read and apply technical information in the wiring schematics and drawings of vehicles, vessels and machinery when testing and fault finding electrical wiring systems. It involves preparing for the task, reading and interpreting the schematics and drawings, and completing work processes.

It applies to those working in the automotive service and repair industry. The wiring schematics and diagrams include those in electrical systems in agricultural machinery, heavy commercial vehicles, light vehicles, vessels, mobile plant machinery, motorcycles or outdoor power equipment.

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.	
Prepare to read and apply vehicle wiring	1.1 Workplace instructions are used to determine job requirements 1.2 Wiring schematics and drawings are sourced that relate to the	

Approved Page 2 of 4

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.		
schematics and	vehicle, vessel or machinery electrical system being tested		
drawings	1.3 Schematics and drawings are checked to ensure they are current and include latest amendments		
2. Interpret information	2.1 <i>Electrical circuit information</i> in schematics and drawings is correctly identified		
	2.2 Information is interpreted and applied to assist when carrying out testing and repair procedures on electrical wiring systems		
3. Complete work processes	3.1 Schematics and drawings are stored to ensure ease of access and protection from loss or damage		
	3.2 Damage to schematics and drawings is reported 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 symbols and graphical illustrations in electrical wiring schematics and drawings.	
Oral communication skills to:	clarify information.	
Numeracy skills to:	interpret numbers and units relating to electrical circuits and wiring systems in automotive workshop hard copy and online documentation	
	determine correct measurement relationships for voltage, current and resistance in electrical circuits from wiring schematics and drawings	
	interpret correct wiring gauge and dimensions from wiring schematics and drawings.	

Approved Page 3 of 4

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.

Electrical circuit	•	symbols
<i>information</i> must include:	•	wiring codes
	•	legends
	•	diagrammatic representations.

Unit Mapping Information

Equivalent to AURETR2016 Read and apply vehicle wiring schematics and drawings

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1

Approved Page 4 of 4