

# AURETR014 Inspect, test and service starting systems

Release: 1

## **AURETR014** Inspect, test and service starting systems

### **Modification History**

Release	Comment
Release 1	New unit of competency.

## **Application**

This unit describes the performance outcomes required to inspect, test and service vehicle, vessel and machinery starting systems. It involves preparing for the task, inspecting starting systems, servicing the systems, and completing workplace processes and documentation, including any associated recommendations for further action.

It applies to those working in the automotive service and repair industry. The starting systems include those in agricultural machinery, heavy commercial vehicles, light vehicles, vessels, motorcycles, mobile plant machinery 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 inspect, test and service starting system	1.1 Job requirements are determined according to workplace instructions     1.2 Inspection, testing and servicing procedures are accessed and interpreted

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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.
	1.3 Hazards associated with the work are identified and risks are reported
	1.4 Tools and equipment are selected and checked for serviceability
2. Inspect and test system	2.1 System and battery are inspected and tested according to manufacturer specifications, workplace procedures and <i>safety</i> requirements
	2.2 Starting circuit is tested according to workplace procedures and without causing damage to components or systems
	2.3 Inspection results are compared with manufacturer specifications
	2.4 Inspection findings are reported according to workplace procedures, including recommendations for required repairs or adjustments
3. Service system	3.1 System is serviced according to manufacturer specifications, workplace procedures, and safety and <i>environmental requirements</i> , and without causing damage to components or systems
	3.2 Post-service testing is carried out to confirm starting system is operating to manufacturer specifications and that no other problems are present
4. Complete work processes	4.1 Final inspection is made to ensure work is to workplace expectations and vehicle, vessel or machinery is presented ready for use
	4.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recycle material is collected
	4.3 Tools and equipment are checked and 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.

xills	Description	
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Skills	Description
Learning skills to:	locate starting system information efficiently.
Reading skills to:	interpret information from manufacturer and workshop literature when seeking starting system service procedures and specifications.
Writing skills to:	<ul> <li>legibly and accurately complete workplace documentation when reporting inspection findings, making recommendations, and recording parts and material used.</li> </ul>
Oral communication skills to:	clarify instructions and report inspection findings to appropriate personnel.
Numeracy skills to:	<ul> <li>match starting system types and identification numbers to workplace instructions and manufacturer specifications</li> <li>compare battery cold cranking amps (CCA) with vehicle starting system specifications.</li> </ul>
Technology skills to:	use specialised tools and equipment, including load testers, inductive ammeters and multimeters.

# **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.

Tools and equipment must include:	<ul> <li>electronic testing equipment, including:</li> <li>multimeter</li> <li>load tester</li> <li>inductive ammeter.</li> </ul>
Safety requirements must include:	<ul> <li>work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for:</li> <li>selecting and using personal protective equipment (PPE), including clothing, and eye and hand protection</li> <li>working safely with high current electrical systems.</li> </ul>
Environmental requirements must include:	<ul> <li>procedures:</li> <li>found in safety data sheets (SDS) relating to toxic and corrosive substances</li> <li>for recycling and disposing of replaced starting system components.</li> </ul>

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# **Unit Mapping Information**

Equivalent to AURETR2014 Inspect and service starting systems

## Links

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

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