



Australian Government

AURETR002 Inspect heavy vehicle battery storage systems

Release: 1

AURETR002 Inspect heavy vehicle battery storage systems

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to inspect battery storage systems in heavy vehicle and machinery according to manufacturer specifications. It involves preparing for the task, inspecting the system, 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 inspect battery storage system	1.1 Task instructions are interpreted and vehicle to be worked on is identified 1.2 Inspection information is accessed and interpreted 1.3 Potential hazards and risks associated with task are identified and

Elements	Performance Criteria
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	reported to workplace supervisor 1.4 Tools, equipment and materials are selected and checked for serviceability
2. Inspect system	2.1 Inspection is carried out according to manufacturer specifications, workplace procedures and safety requirements 2.2 Inspection results are compared with manufacturer specifications 2.3 Inspection findings are reported according to workplace procedures
3. Complete work processes	3.1 Final inspection is made to ensure work meets task instruction and workplace standards, and vehicle or machinery is presented ready for use 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 procedures 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 information.
Reading skills to:	interpret key information from manufacturer and workshop literature when seeking inspection procedures and specifications relating to battery storage systems.
Writing skills to:	legibly and accurately fill out workplace documentation using correct industry terminology and conventions.
Numeracy skills to:	interpret numerical information on batteries.

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>Inspection</i> must include:	• inspecting battery, terminals and leads • inspecting battery securing system • inspecting battery storage compartment.
<i>Safety requirements</i> must include:	• work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: • selecting and using personal protective equipment (PPE), including clothing, and eye and hand protection • working safely with high current electrical systems • manually handling batteries and toxic and corrosive substances.

Unit Mapping Information

Equivalent to AURETR1002 Test, service and maintain battery storage systems

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 AURETR002 Inspect heavy vehicle battery storage systems

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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:

- inspect the heavy vehicle battery storage system of one heavy vehicle or machinery.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to inspecting heavy vehicle battery storage systems, including procedures for:
 - selecting and using personal protective equipment (PPE), including clothing, and eye and hand protection
 - working safely with high current electrical systems
 - manually handling batteries and toxic and corrosive substances
- identification and function of heavy vehicle battery storage system components, including:
 - base, cover and box
 - battery hold down systems
 - ventilation and cooling systems
 - battery switching devices
- inspection procedures of heavy vehicle battery storage systems, including:
 - inspecting battery, terminals and leads
 - inspecting battery securing systems
 - inspecting battery storage compartments.

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 heavy vehicle or machinery battery storage systems that they have inspected, 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 battery storage system specifications
- one heavy vehicle or machinery with battery storage system requiring inspection
- tools, equipment and materials appropriate for inspecting heavy vehicle battery storage systems.

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