



Australian Government

AURETR146 Remove and refit vehicle batteries

Release: 1

AURETR146 Remove and refit vehicle batteries

Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Application

This unit describes the skills and knowledge required to remove and refit lead-acid batteries from a vehicle. It involves preparing for the task, investigating battery types and connections, removing and refitting the battery from a vehicle, and completing workplace processes and documentation.

The unit 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.

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

Unit Sector

Electrical Technical – Electrical and Electronics

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to remove and refit battery	1.1 Identify task requirements from task instructions, including vehicle battery to be worked on 1.2 Obtain and interpret technical information and safe operating procedures for battery removal and refitting 1.3 Identify potential hazards and risks associated with the task according to workplace health and safety and environmental requirements and report to workplace supervisor 1.4 Implement control measures in line with workplace policies and procedures

ELEMENT	PERFORMANCE CRITERIA
	1.5 Identify tools and equipment required for battery removal and refitting and establish serviceability according to manufacturer specifications, workplace procedures and workplace health and safety and environmental requirements
2. Remove battery	2.1 Prepare vehicle for battery removal according to workplace procedures and workplace health and safety and environmental requirements 2.2 Remove battery from vehicle according to manufacturer specifications, workplace procedures and workplace health and safety and environmental requirements 2.3 Inspect battery according to manufacturer specifications, workplace procedures, and workplace health and safety and environmental requirements 2.4 Record battery inspection results according to workplace procedures
3. Refit battery	3.1 Refit battery according to manufacturer specifications, workplace procedures, and workplace health and safety and environmental requirements 3.2 Check vehicle for correct electrical operation according to manufacturer specifications, workplace procedures, and workplace health and safety and environmental requirements
4. Complete work processes	4.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use 4.2 Clear work area and dispose of or recycle materials according to workplace procedures 4.3 Complete documentation according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Learning	Locates required sources of information efficiently
Reading	- Selects and interprets key information from manufacturer specifications, workplace health and safety requirements and workplace procedures to safely remove and refit batteries - Selects and interprets key information from environmental requirements and workplace procedures to ensure a clean

SKILL	DESCRIPTION
	and safe work site
Oral communication	Participates effectively in verbal exchanges using questioning and active listening to request, clarify and clearly convey information
Numeracy	Interprets numerical information embedded in battery identification codes
Planning and organising	- Plans own work requirements - Prioritises actions to achieve required outcomes
Self-management	Recognises own limitations when selecting and using tools and equipment and seeks timely advice
Problem-solving	Refers problems that cannot be readily resolved and seeks assistance from workplace supervisor
Technology	Sets up and operates specialised equipment and tools.

Unit Mapping Information

Supersedes and is equivalent to AURETR046 Remove and refit vehicle batteries.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for AURETR146 Remove and refit vehicle batteries

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- remove and refit the batteries of at least two different operational vehicles.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to remove and refit vehicle batteries, including:
 - battery and vehicle manufacturer specifications
 - safety data sheets (SDS)
- workplace procedures required to remove and refit vehicle batteries, including:
 - battery identification procedures
 - battery polarity and connection methods
 - battery removal and refitting methods, precautions and procedures
 - battery cleaning methods
 - post-fitting inspection procedures
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment
 - disposal of excess materials
 - recycling procedures

- key aspects of workplace health and safety (WHS) and environmental requirements when removing and refitting batteries, including procedures for:
 - handling, storing and disposing of used automotive batteries
 - selecting and using personal protective equipment (PPE), including safety glasses, ear protection and safety footwear
- use of hand tools and lifting equipment
- key battery types and their uses, including:
 - lead-acid batteries, including deep cycle batteries
 - maintenance-free batteries, including gel batteries and absorbed glass mat batteries
 - lithium-ion batteries.

Assessment Conditions

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 vehicles where they have removed and refitted batteries, 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
- personal protective equipment appropriate to the workplace
- two operational vehicles with lead-acid batteries
- hand tools for removing and refitting lead-acid batteries.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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