

AUR32725 Certificate III in Automotive Electric Vehicle Technology

Qualification Description

This qualification reflects the role of individuals who service, diagnose and repair battery electric vehicles and components in the automotive, service and repair industry who carry out work according to Australian Standards (AS) 5732 Electric vehicle operations - Maintenance and repair.

Licensing, legislative, regulatory or certification considerations

Licensing, legislative and certification requirements may apply to this qualification but vary between states, territories and industry sectors.

Licensing requirements relating to handling refrigerants are governed by the Australian Refrigeration Council.

Users are advised to check with the relevant state/territory jurisdiction or industry body for current requirements.

Entry Requirements

Nil

Packaging Rules

Total number of units = 29

16 core units plus

13 elective units, of which:

- all units in one of the Specialist elective Groups A or B below must be chosen
- of the remaining units required to make up the elective unit total:
 - all may be from the General Elective Group C units listed below
 - up to 3 may be from elsewhere in this or any other currently endorsed Certificate III or above training package qualification or accredited course.

Elective units must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid industry-supported vocational outcome.

Specialisations

Specialisation in this qualification is mandatory. The achievement of a specialisation will be identified on testamurs as follows:

- AUR32721 Certificate III in Automotive Electric Vehicle Technology (Light Vehicle)
- AUR32721 Certificate III in Automotive Electric Vehicle Technology (Heavy Vehicle)

Packaging rules to achieve a specialisation

Light Vehicle

Complete all units from Group A – Light Vehicle

Heavy Vehicle

Complete all units from Group B – Heavy Vehicle

Core units

AURAEA002 Follow environmental and sustainability best practice in an automotive workplace

AURASA102 Follow safe working practices in an automotive workplace

AURETH101 Depower and reinitialise battery electric vehicles

AURETH102 Inspect and maintain battery electric vehicles*

AURETH104 Diagnose and repair traction motor speed control systems in battery electric vehicles

AURETH105 Diagnose and repair high voltage traction motors in battery electric vehicles

AURETH106 Diagnose and repair auxiliary motors and associated components in battery electric vehicles*

AURETH107 Diagnose and repair system instrumentation and safety interlocks in battery electric vehicles*

AURETH108 Diagnose and repair HVAC and rechargeable energy storage cooling systems in battery electric vehicle*

AURETH109 Diagnose and repair DC to DC converters in battery electric vehicles*

AURETK002 Use and maintain electrical test equipment in an automotive workplace

AURETR112 Test and repair basic electrical circuits

AURETR125 Test, charge and replace batteries and jump-start vehicles

AURETU103 Service air conditioning and HVAC systems

AURTTA118 Develop and carry out diagnostic test strategies

AURTTK102 Use and maintain tools and equipment in an automotive workplace

Elective Units

Group A - Light Vehicle

AURETH103 Diagnose and repair high voltage rechargeable energy storage systems in battery electric vehicles

AURETR132 Diagnose and repair automotive electrical systems

AURLTB103 Diagnose and repair light vehicle hydraulic braking systems

AURLTD104 Diagnose and repair light vehicle steering systems

AURLTD105 Diagnose and repair light vehicle suspension systems

AURLTJ102 Remove, inspect, repair and refit light vehicle tyres and tubes

AURTTB101 Inspect and service braking systems

AURTTJ011 Balance wheels and tyres

Group B - Heavy Vehicle

AURETH015 Diagnose, remove and replace heavy electric vehicle rechargeable energy storage system

AURHTB101 Diagnose and repair heavy vehicle air braking systems

AURHTD102 Diagnose and repair heavy commercial vehicle steering systems

AURHTD103 Diagnose and repair heavy commercial vehicle suspension systems

AURHTQ103 Diagnose and repair heavy vehicle drive shafts

AURTTA006 Inspect and service hydraulic systems

AURTTQ001 Inspect and service final drive assemblies

Group C - General Electives

AURACA101 Respond to customer needs and enquiries in an automotive workplace

AURAF002 Read and respond to automotive workplace information

AURAF003 Communicate effectively in an automotive workplace

AURAKA001 Use information technology systems

AURATA005 Estimate and quote automotive mechanical and electrical repairs

AURETD101 Diagnose and repair electronically controlled steering systems

AURETH017 Work safely with hydrogen in the automotive industry

AURETH018 Inspect and service fuel cell components*

AURETR006 Solder electrical wiring and circuits

AURETR010 Repair wiring harnesses and looms

AURETR011 Install basic ancillary electrical systems and components

AURETR026 Remove, replace and program electrical and electronic units and assemblies

AURETR028 Diagnose and repair instruments and warning systems

AURETR120 Diagnose and repair network electronic control systems

AURETR122 Diagnose and repair vehicle dynamic control systems

AURETR143 Diagnose and repair electronic body management systems

AURETR149 Apply knowledge of ADAS technology to vehicle pre-repair scans

AURETR236 Diagnose and repair electronically controlled suspension systems

AURETU104 Diagnose and repair air conditioning and HVAC components

AURLTD002 Service and repair light vehicle lift assisted suspension systems

AURLTD101 Select and install performance enhanced suspension system products

AURLTD106 Carry out light vehicle wheel alignment operations

AURLTQ102 Diagnose and repair light vehicle drive shafts

AURTTD002 Inspect and service steering systems

AURTTD004 Inspect and service suspension systems

AURTTA104 Carry out servicing operations

AURTTK001 Use and maintain measuring equipment in an automotive workplace

AURVTN104 Remove, replace and align bolt-on vehicle body panels and components

AURVTT003 Remove and replace automotive and marine interior trim components

*Note the following prerequisite unit requirements.

UNIT IN THIS QUALIFICATION	PREREQUISITE UNITS
AURETH102 Inspect and maintain battery electric vehicles	AURETH101 Depower and reinitialise battery electric vehicles
AURETH103 Diagnose and repair high voltage rechargeable energy storage systems in battery electric vehicles	AURETH101 Depower and reinitialise battery electric vehicles
AURETH018 Inspect and service fuel cell components	AURETH101 Depower and reinitialise battery electric vehicles AURETH017 Work safely with hydrogen in the automotive industry
AURETH106 Diagnose and repair auxiliary motors and associated components in battery electric vehicles	AURETH101 Depower and reinitialise battery electric vehicles
AURETH107 Diagnose and repair system instrumentation and safety interlocks in battery electric vehicles	AURETH101 Depower and reinitialise battery electric vehicles
AURETH108 Diagnose and repair HVAC and rechargeable energy storage cooling systems in battery electric vehicle	AURETH101 Depower and reinitialise battery electric vehicles
AURETH109 Diagnose and repair DC to DC converters in battery electric vehicles	AURETH101 Depower and reinitialise battery electric vehicles AURETR125 Test, charge and replace batteries and jump-start vehicles

Qualification Mapping Information

AUR32721 Certificate III in Automotive Electric Vehicle Technology

Links

[Link to Companion Volume Implementation Guide](#)