

AUR30325 Certificate III in Automotive Electrical Technology

Qualification Description

This qualification reflects the role of individuals who service, diagnose and repair electrical systems and components in vehicles in the automotive electrical service and repair industry.

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

Entry Requirements

Nil.

Packaging Rules

Total number of units = 32

21 core units, plus

11 elective units, of which:

- all **11** units may be from the elective units listed below
- up to **6** units may be from a Certificate II qualification or above in this Training Package or another endorsed Training Package 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 for the qualification, and contribute to a valid vocational outcome.

Core Units

AURAEA002 Follow environmental and sustainability best practice in an automotive workplace

AURASA102 Follow safe working practices in an automotive workplace

AURETK002 Use and maintain electrical test equipment in an automotive workplace

AURETR006 Solder electrical wiring and circuits

AURETR007 Apply knowledge of automotive electrical circuits and wiring systems

AURETR009 Install vehicle lighting and wiring systems

AURETR010 Repair wiring harnesses and looms

AURETR027 Install ancillary electronic systems and components

AURETR112 Test and repair basic electrical circuits

AURETR123 Diagnose and repair spark ignition engine management systems

AURETR124 Diagnose and repair compression ignition engine management systems

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

AURETR128 Diagnose and repair instruments and warning systems

AURETR129 Diagnose and repair charging systems
AURETR130 Diagnose and repair starting systems
AURETR131 Diagnose and repair ignition systems
AURETR132 Diagnose and repair automotive electrical systems
AURETR135 Apply knowledge of petrol and diesel engine operation
AURETR143 Diagnose and repair electronic body management systems
AURTTA118 Develop and carry out diagnostic test strategies
AURTTE104 Inspect and service engines

Elective Units

AURAF103 Communicate effectively in an automotive workplace
AURATA004 Provide technical guidance
AURATA005 Estimate and quote automotive mechanical and electrical repairs
AURETB101 Diagnose and repair electric braking systems
AURETD101 Diagnose and repair electronically controlled steering systems
AURETH011 Depower and reinitialise hybrid electric vehicles
AURETH015 Diagnose, remove and replace heavy electric vehicle rechargeable energy storage systems
AURETH101 Depower and reinitialise battery electric vehicles
AURETH102 Inspect and maintain battery electric vehicles*
AURETH017 Work safely with hydrogen in the automotive industry
AURETH018 Inspect and service fuel cell components*
AURETR005 Install automotive security systems and components
AURETR008 Remove and replace electrical units and assemblies
AURETR011 Install basic ancillary electrical systems and components
AURETR013 Inspect, test and service charging systems
AURETR014 Inspect, test and service starting systems
AURETR017 Overhaul charging system alternators
AURETR018 Overhaul starting system motors
AURETR019 Inspect, service and repair AC electric motor drive systems
AURETR026 Remove, replace and program electrical and electronic units and assemblies
AURETR042 Remove, refit and operate electrical components following body repair activities
AURETR045 Inspect, service and repair DC electric motor drive systems
AURETR115 Inspect, test and service batteries
AURETR116 Read and apply vehicle wiring schematics and drawings
AURETR120 Diagnose and repair network electronic control systems
AURETR121 Diagnose, repair and replace electronic management, monitoring and tracking systems
AURETR122 Diagnose and repair vehicle dynamic control systems

AURETR144 Diagnose and repair integrated engine and transmission management systems
AURETR149 Apply knowledge of ADAS systems to vehicle pre-repair scans
AURETR236 Diagnose and repair electronically controlled suspension systems
AURETU001 Install air conditioning systems
AURETU007 Overhaul air conditioning and HVAC system compressors
AURETU102 Recover vehicle refrigerants
AURETU103 Service air conditioning and HVAC systems
AURETU104 Diagnose and repair air conditioning and HVAC components
AURETU105 Retrofit automotive air conditioning and HVAC systems
AURHTZ101 Diagnose and repair heavy vehicle emission control 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
AURLTE001 Remove and install light vehicle engine assemblies
AURLTE102 Diagnose and repair light vehicle engines
AURLTF101 Diagnose and repair light vehicle mechanical fuel injection systems
AURPTR002 Test and service electric outdoor power equipment
AURRTR007 Install marine electrical systems and components
AURTTA017 Carry out vehicle safety inspections
AURTTA104 Carry out servicing operations
AURTTA105 Select and use bearings, seals, gaskets, sealants and adhesives
AURTTA121 Diagnose complex system faults
AURTTB101 Inspect and service braking systems
AURTTC103 Diagnose and repair cooling systems
AURTTF101 Inspect and service petrol fuel systems
AURTTK102 Use and maintain tools and equipment in an automotive workplace
AURTTW001 Carry out soft soldering techniques
AURTTZ102 Diagnose and repair exhaust systems
AURVTA002 Remove and replace vehicle supplementary restraint systems
AURVTA104 Inspect damaged vehicle systems and recommend repairs
AURVTT003 Remove and replace automotive and marine interior trim components
AURVTW002 Carry out oxyacetylene brazing of components
AURVTW018 Carry out oxyacetylene welding, thermal heating and cutting
AURVTW101 Carry out manual metal arc welding on components
AURVTW103 Carry out advanced gas metal arc welding on vehicle body sections
AURVTW104 Carry out tungsten inert gas welding
BSBSTR401 Promote innovation in team environments
BSBWHS311 Assist with maintaining workplace safety
TAEDEL301 Provide work skill instruction

*Note the following prerequisite unit requirements.

UNIT IN THIS QUALIFICATION	PREREQUISITE UNIT
AURETH102 Inspect and maintain 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

Qualification Mapping Information

AUR30320 Certificate III in Automotive Electrical Technology.

Links

[Link to Companion Volume Implementation Guide](#)