



Australian Government

AUR40616 Certificate IV in Automotive Electrical Technology

Release 2

AUR40616 Certificate IV in Automotive Electrical Technology

Modification History

Release	Comment
Release 2	Update of one unit within elective bank
Release 1	New qualification.

Qualification Description

This qualification reflects the role of individuals who work as master diagnostic technicians the automotive service and repair industry; servicing, diagnosing and repairing vehicle electrical systems and components. A range of advanced electrical diagnostic skills and knowledge is necessary, and leadership and supervision of others would be expected.

Entry Requirements

Those undertaking Certificate IV in Automotive Electrical Technology must have completed AUR30316 Certificate III in Automotive Electrical Technology, or be able to demonstrate equivalent competency.

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

Packaging Rules

Total number of units = 10

1 core unit, plus

9 elective units, of which:

- up to 9 units may be chosen from the Elective Units listed below
- up to 3 units may be chosen from a Certificate III qualification or above in this Training Package or another endorsed Training Package or accredited course, provided that the units chosen contribute to the vocational outcome of this qualification and do not duplicate the outcome of another unit chosen for the qualification.

Core Units

Unit code	Unit title	Prerequisite unit
AURTTA021	Diagnose complex system faults	

Elective Units

Unit code	Unit title	Prerequisite unit
AURAEA003	Monitor environmental and sustainability best practice in an automotive workplace	
AURAF A006	Conduct research and present technical reports	
AURAF A007	Develop and document specifications and procedures	
AURAKA002	Adapt work processes to new technologies in an automotive workplace	
AURANN011	Estimate and quote automotive body repairs	
AURAQA002	Inspect technical quality of work in an automotive workplace	
AURAQA003	Maintain quality processes in an automotive workplace	
AURATA004	Provide technical guidance	
AURATA005	Estimate and quote automotive mechanical and electrical repairs	
AURETB001	Diagnose and repair electric braking systems	
AURETH001	Depower and reinitialise battery electric vehicles	
AURETH002	Service and maintain battery electric vehicles	AURETH001
AURETH003	Diagnose and repair high voltage rechargeable energy storage systems in battery electric vehicles	AURETH001
AURETH004	Diagnose and repair traction motor speed control systems in battery electric vehicles	AURETH001
AURETH005	Diagnose and repair high voltage traction motors in battery electric vehicles	AURETH001

Unit code	Unit title	Prerequisite unit
AURETH006	Diagnose and repair auxiliary motors and associated components in battery electric vehicles	AURETH001
AURETH007	Diagnose and repair system instrumentation and safety interlocks in battery electric vehicles	AURETH001
AURETH008	Diagnose and repair HVAC and rechargeable energy storage cooling systems in battery electric vehicle	AURETH001
AURETH009	Diagnose and repair DC to DC converters in battery electric vehicles	AURETH001 AURETR025
AURETH010	Diagnose and repair high voltage rechargeable energy storage systems in hybrid electric vehicles	AURETR025
AURETH011	Depower and reinitialise hybrid electric vehicles	
AURETH012	Service and maintain electrical components in hybrid electric vehicles	AURETH011
AURETH014	Diagnose complex faults in hybrid and battery electric vehicle network management systems	
AURETR004	Diagnose complex faults in convenience and entertainment systems	
AURETR025	Test, charge and replace batteries and jump-start vehicles	
AURETR033	Develop and apply network electronic control system modifications	
AURETR034	Develop and apply electrical system modifications	
AURETR037	Diagnose complex faults in light vehicle safety systems	
AURETR038	Diagnose complex faults in motorcycle electrical and electronic systems	
AURETR039	Diagnose complex faults in light vehicle theft-deterrent systems	
AURETR040	Diagnose complex faults in vehicle monitoring and protection systems	
AURETU004	Diagnose and repair air conditioning and HVAC systems	

Unit code	Unit title	Prerequisite unit
AURETU005	Retrofit and modify air conditioning and HVAC systems	
AURETU006	Diagnose complex faults in air conditioning and HVAC systems	
AURETU007	Overhaul air conditioning and HVAC system compressors	
AURTNA001	Estimate and quote automotive vehicle or machinery modifications	
AURTTA017	Carry out vehicle safety inspections	
AURTTA026	Diagnose complex faults in electronic over hydraulic systems	
AURTTE001	Apply knowledge of engine science	
AURTTL010	Install LPG, CNG and LNG electrical control equipment	
BSBLED401	Develop teams and individuals	
BSBINN301	Promote innovation in a team environment	
BSBWHS401	Implement and monitor WHS policies, procedures and programs to meet legislative requirements	
BSBWOR301	Organise personal work priorities and development	
TAEDEL301	Provide work skill instruction	
TAEDEL404	Mentor in the workplace	

Qualification Mapping Information

Equivalent to AUR40612 Certificate IV in Automotive Electrical Technology

Links

Companion Volume Implementation Guides are found in VETNet -

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