



Australian Government

AUR30316 Certificate III in Automotive Electrical Technology

Release 2

AUR30316 Certificate III in Automotive Electrical Technology

Modification History

Release	Comment
Release 2	Updates to elective bank.
Release 1	New qualification.

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.

Entry Requirements

This qualification may be accessed by direct entry.

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

Packaging Rules

Total number of units = 32

20 core units, plus

12 elective units, of which:

- up to 12 units may be chosen from the Elective Units listed below
- up to 6 units may be chosen from a Certificate II 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
-----------	------------	-------------------

Unit code	Unit title	Prerequisite unit
AURAEA002	Follow environmental and sustainability best practice in an automotive workplace	
AURASA002	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	
AURETR012	Test and repair basic electrical circuits	
AURETR023	Diagnose and repair spark ignition engine management systems	
AURETR024	Diagnose and repair compression ignition engine management systems	
AURETR025	Test, charge and replace batteries and jump-start vehicles	
AURETR027	Install ancillary electronic systems and components	
AURETR028	Diagnose and repair instruments and warning systems	
AURETR029	Diagnose and repair charging systems	
AURETR030	Diagnose and repair starting systems	
AURETR031	Diagnose and repair ignition systems	
AURETR032	Diagnose and repair automotive electrical systems	
AURETR035	Apply knowledge of petrol and diesel engine operation	
AURETR043	Diagnose and repair electronic body management systems	
AURTTA018	Carry out diagnostic procedures	

Elective Units

Unit code	Unit title	Prerequisite unit
AURAF003	Communicate effectively in an automotive workplace	
AURAKA002	Adapt work processes to new technologies in an automotive workplace	
AURAMA001	Work effectively with others in an automotive workplace	
AURAMA002	Communicate business information in an automotive workplace	
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	
AURETD011	Diagnose and repair electronically controlled steering systems	
AURETH001	Depower and reinitialise battery electric vehicles	
AURETH002	Service and maintain battery electric vehicles	AURETH001
AURETH011	Depower and reinitialise hybrid electric vehicles	
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	
AURETR015	Inspect, test and service batteries	
AURETR016	Read and apply vehicle wiring schematics and drawings	
AURETR017	Overhaul charging system alternators	

Unit code	Unit title	Prerequisite unit
AURETR018	Overhaul starting system motors	
AURETR019	Inspect, service and repair AC electric motor drive systems	
AURETR020	Diagnose and repair network electronic control systems	
AURETR021	Inspect, service and repair electronic management, monitoring and tracking systems	
AURETR022	Diagnose and repair vehicle dynamic control systems	
AURETR026	Remove, replace and program electrical and electronic units and assemblies	
AURETR136	Diagnose and repair electronically controlled suspension systems	
AURETR042	Remove, refit and operate electrical components following body repair activities	
AURETR044	Diagnose and repair integrated engine and transmission management systems	
AURETR045	Inspect, service and repair DC electric motor drive systems	
AURETU001	Install air conditioning systems	
AURETU002	Recover vehicle refrigerants	
AURETU003	Service air conditioning and HVAC systems	
AURETU004	Diagnose and repair air conditioning and HVAC systems	
AURETU005	Retrofit and modify air conditioning and HVAC systems	
AURETU007	Overhaul air conditioning and HVAC system compressors	
AURHTZ001	Diagnose and repair heavy vehicle emission control systems	
AURLTB003	Diagnose and repair light vehicle hydraulic braking systems	
AURLTD004	Diagnose and repair light vehicle steering systems	
AURLTD005	Diagnose and repair light vehicle suspension systems	
AURLTE001	Remove and install light vehicle engine assemblies	

Unit code	Unit title	Prerequisite unit
AURLTE002	Diagnose and repair light vehicle engines	
AURLTF001	Diagnose and repair light vehicle mechanical fuel injection systems	
AURPTR002	Test and service electric outdoor power equipment	
AURRTR006	Diagnose and repair marine electrical systems	
AURRTR007	Install marine electrical systems and components	
AURTTA004	Carry out servicing operations	
AURTTA005	Select and use bearings, seals, gaskets, sealants and adhesives	
AURTTA017	Carry out vehicle safety inspections	
AURTTA021	Diagnose complex system faults	
AURTTB001	Inspect and service braking systems	
AURTTTC003	Diagnose and repair cooling systems	
AURTTE004	Inspect and service engines	
AURTTTF001	Inspect and service petrol fuel systems	
AURTTK002	Use and maintain tools and equipment in an automotive workplace	
AURTTL010	Install LPG, CNG and LNG electrical control equipment	
AURTTW001	Carry out soft soldering techniques	
AURTTZ002	Diagnose and repair exhaust systems	
AURVTA002	Remove and replace vehicle supplementary restraint systems	
AURVTA004	Inspect damaged vehicle systems and recommend repairs	
AURVTT003	Remove and replace automotive and marine interior trim components	
AURVTW001	Carry out manual metal arc welding on components	
AURVTW002	Carry out oxyacetylene brazing of components	

Unit code	Unit title	Prerequisite unit
AURVTW003	Carry out advanced gas metal arc welding on vehicle body sections	
AURVTW004	Carry out tungsten inert gas welding	
AURVTW018	Carry out oxyacetylene welding, thermal heating and cutting	
BSBINN301	Promote innovation in a team environment	
BSBWHS301	Maintain workplace safety	
TAEDEL301	Provide work skill instruction	

Qualification Mapping Information

Equivalent to AUR30312 Certificate III 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>