



Australian Government

AUR30620 Certificate III in Light Vehicle Mechanical Technology

Release 3

AUR30620 Certificate III in Light Vehicle Mechanical Technology

Modification History

Release	Comments
Release 3	<p>This version released with AUR Automotive Service and Repair Training Package Version 7.0.</p> <p>Minor update to qualification to include additional elective units and rectify typographical errors.</p>
Release 2	<p>This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.1.</p> <p>The following elective units of competency have been deleted as directed by the AISC:</p> <ul style="list-style-type: none"> • AURTTL006 Install LNG fuel systems. <p>The above training products were identified as having zero enrolments over a three year period.</p>
Release 1	<p>This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0</p>

Qualification Description

This qualification reflects the role of individuals who perform a broad range of tasks on a variety of light vehicles in the automotive retail, 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 = 36

20 core units, plus

16 elective units, of which:

- all **16** 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 chosen 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 vocational outcome.

Core Units

AURAEA002 Follow environmental and sustainability best practice in an automotive workplace

AURASA102 Follow safe working practices in an automotive workplace

AURETR112 Test and repair basic electrical circuits

AURETR123 Diagnose and repair spark ignition engine management systems

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

AURETR129 Diagnose and repair charging systems

AURETR130 Diagnose and repair starting systems

AURETR131 Diagnose and repair ignition systems

AURLTD104 Diagnose and repair light vehicle steering systems

AURLTB103 Diagnose and repair light vehicle hydraulic braking systems

AURLTD105 Diagnose and repair light vehicle suspension systems

AURLTE102 Diagnose and repair light vehicle engines

AURLTZ101 Diagnose and repair light vehicle emission control systems

AURTTA104 Carry out servicing operations

AURTTA118 Develop and carry out diagnostic test strategies

AURTTB101 Inspect and service braking systems

AURTTC103 Diagnose and repair cooling systems

AURTTE104 Inspect and service engines

AURTTF101 Inspect and service petrol fuel systems

AURTTK102 Use and maintain tools and equipment in an automotive workplace

Elective Units

AURACA101 Respond to customer needs and enquiries in an automotive workplace

AURAF103 Communicate effectively in an automotive workplace

AURETD101 Diagnose and repair electronically controlled steering systems

AURETH011 Depower and reinitialise hybrid electric vehicles

AURETH012 Service and maintain electrical components in hybrid electric vehicles

AURETH101 Depower and reinitialise battery electric vehicles

AURETH102 Inspect and maintain battery electric vehicles*

AURETR010 Repair wiring harnesses and looms

AURETR011 Install basic ancillary electrical systems and components

AURETR120 Diagnose and repair network electronic control systems

AURETR122 Diagnose and repair vehicle dynamic control systems
AURETR124 Diagnose and repair compression ignition engine management systems
AURETR128 Diagnose and repair instruments and warning systems
AURETR132 Diagnose and repair automotive electrical systems
AURETR143 Diagnose and repair electronic body management systems
AURETR144 Diagnose and repair integrated engine and transmission management systems
AURETR149 Apply knowledge of ADAS technology to vehicle pre-repair scans
AURETR236 Diagnose and repair electronically controlled suspension systems
AURETU103 Service air conditioning and HVAC systems
AURETU104 Diagnose and repair air conditioning and HVAC components
AURETU105 Retrofit automotive and modify air conditioning and HVAC systems
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
AURLTE001 Remove and install light vehicle engine assemblies
AURLTF101 Diagnose and repair light vehicle mechanical fuel injection systems
AURLTF102 Diagnose and repair light vehicle diesel fuel injection systems
AURLTJ011 Select light vehicle tyres and wheels for specific applications
AURLTJ102 Remove, inspect, repair and refit light vehicle tyres and tubes
AURLTJ113 Remove, inspect and refit light vehicle wheel and tyre assemblies
AURLTQ101 Diagnose and repair light vehicle final drive assemblies
AURLTQ102 Diagnose and repair light vehicle drive shafts
AURLTX101 Diagnose and repair light vehicle manual transmissions
AURLTX102 Diagnose and repair light vehicle automatic transmissions
AURLTX103 Diagnose and repair light vehicle clutch systems
AURTTA009 Carry out mechanical pre-repair operations
AURTTA017 Carry out vehicle safety inspections
AURTTA105 Select and use bearings, seals, gaskets, sealants and adhesives
AURTTB013 Machine brake drums and brake disc rotors
AURTTB015 Assemble and fit braking system components
AURTTTC001 Inspect and service cooling systems
AURTTD002 Inspect and service steering systems
AURTTD004 Inspect and service suspension systems
AURTTTF102 Inspect and service diesel fuel injection systems
AURTTTF105 Diagnose and repair engine forced-induction systems
AURTTTF106 Diagnose and repair petrol carburettor systems
AURTTJ011 Balance wheels and tyres
AURTTK001 Use and maintain measuring equipment in an automotive workplace
AURTTL003 Install CNG fuel systems
AURTTL007 Inspect and service LPG fuel systems

AURTTL009 Install LPG fuel systems
 AURTTL104 Inspect and service LNG fuel systems
 AURTTL105 Diagnose and repair LNG fuel systems
 AURTTL108 Diagnose and repair LPG fuel systems
 AURTTQ001 Inspect and service final drive assemblies
 AURTTQ103 Inspect and service drive shafts
 AURTTW001 Carry out soft soldering techniques
 AURTTX102 Inspect and service manual transmissions
 AURTTX103 Inspect and service automatic transmissions
 AURTTZ102 Diagnose and repair exhaust systems
 AURVTA104 Inspect damaged vehicle systems and recommend repairs
 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
 AURVTW109 Carry out basic gas metal arc welding

*Note the following prerequisite unit requirements.

UNIT IN THIS QUALIFICATION	PREREQUISITE UNIT
AURETH102 Inspect and maintain battery electric vehicles	AURETH001 Depower and reinitialise battery electric vehicles

Qualification Mapping Information

Supersedes and is equivalent to AUR30616 Certificate III in Light Vehicle Mechanical Technology.

Links

Companion Volume Implementation Guide is found in VETNet -

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