



**Australian Government**

# **AUR30620 Certificate III in Light Vehicle Mechanical Technology**

**Release 2**

# AUR30620 Certificate III in Light Vehicle Mechanical Technology

## Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0
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"> <li>• AURTTL006 Install LNG fuel systems.</li> </ul> <p>The above training products were identified as having zero enrolments over a three year period.</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
- AURTTTC103 Diagnose and repair cooling systems
- AURTTTE104 Inspect and service engines
- AURTTTF101 Inspect and service petrol fuel systems
- AURTTTK102 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
- AURETD011 Diagnose and repair electronically controlled steering systems
- AURETH002 Service and maintain battery electric vehicles\*
- AURETH011 Depower and reinitialise hybrid electric vehicles
- AURETH012 Service and maintain electrical components in hybrid electric vehicles
- AURETH101 Depower and reinitialise battery electric vehicles
- AURETR010 Repair wiring harnesses and looms
- AURETR011 Install basic ancillary electrical systems and components
- AURETR028 Diagnose and repair instruments and warning systems
- AURETR032 Diagnose and repair automotive electrical systems
- 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  
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  
AURLTD001 Select and install performance enhanced suspension system products  
AURLTD002 Service and repair light vehicle lift assisted suspension systems  
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  
AURTTC001 Inspect and service cooling systems  
AURTTD002 Inspect and service steering systems  
AURTTD004 Inspect and service suspension systems  
AURTTF102 Inspect and service diesel fuel injection systems  
AURTTF105 Diagnose and repair engine forced-induction systems  
AURTTF106 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  
 AURTTQ003 Inspect and service drive shafts  
 AURTTW001 Carry out soft soldering techniques  
 AURTTX102 Inspect and service manual transmissions  
 AURTTX103 Inspect and service automatic transmissions  
 AURTTZ002 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
AURETH002 Service 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>