



**Australian Government**

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

## AUR30620 Certificate III in Light Vehicle Mechanical Technology

### Modification History

| Release | Comments                                                                                                                                                                                                                                                                                                                                                                                |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6       | Superseded elective units updated                                                                                                                                                                                                                                                                                                                                                       |
| 5       | Superseded elective units updated<br>Minor update to qualification to include additional elective units                                                                                                                                                                                                                                                                                 |
| 4       | Minor update to qualification to include additional elective units                                                                                                                                                                                                                                                                                                                      |
| 3       | This version released with AUR Automotive Service and Repair Training Package Version 7.0.<br>Minor update to qualification to include additional elective units and rectify typographical errors.                                                                                                                                                                                      |
| 2       | This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.1.<br>The following elective units of competency have been deleted as directed by the AISC: <ul style="list-style-type: none"><li>• AURTTL006 Install LNG fuel systems.</li></ul> The above training products were identified as having zero enrolments over a three year period. |
| 1       | This qualification was first released in AUR Automotive Retail, Service and Repair Training Package Release 6.0.                                                                                                                                                                                                                                                                        |

### 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.

## Licensing/Regulatory Information

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
- 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
- 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\*
- AURETH017 Work safely with hydrogen in the automotive industry
- AURETH018 Inspect and maintain hydrogen fuel cell system\*
- 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
- AURETR052 Apply knowledge of Advanced Driver Assistance Systems (ADAS)
- AURETR054 Diagnose and repair Advanced Driver Assistance Systems (ADAS) and components in vehicles\*
- 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
- AURETR249 Scan and calibrate Advanced Driver Assistance Systems (ADAS)
- AURETR236 Diagnose and repair electronically controlled suspension systems
- AURETU203 Service air conditioning and HVAC systems
- AURETU204 Diagnose and repair air conditioning and HVAC components
- AURETU205 Retrofit automotive 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
- AURLTJ111 Select light vehicle wheels and tyres
- AURLTJ202 Remove, inspect, repair and refit light vehicle tyres
- AURLTJ213 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
- AURTTF102 Inspect and service diesel fuel injection systems
- AURTTF105 Diagnose and repair engine forced-induction systems
- AURTTF106 Diagnose and repair petrol carburettor systems
- AURTTJ111 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

## Pre-requisite Requirements

| Unit of competency                                                                                 | Prerequisite requirement                                                                                                           |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| AURETH012 Service and maintain electrical components in hybrid electric vehicles                   | AURETH011 Depower and reinitialise hybrid electric vehicles                                                                        |
| AURETH018 Inspect and maintain hydrogen fuel cell system                                           | AURETH017 Work safely with hydrogen in the automotive industry<br><br>AURETH101 Depower and reinitialise battery electric vehicles |
| AURETH102 Inspect and maintain battery electric vehicles                                           | AURETH101 Depower and reinitialise battery electric vehicles                                                                       |
| AURETR054 Diagnose and repair Advanced Driver Assistance Systems (ADAS) and components in vehicles | AURETR249 Scan and calibrate Advanced Driver Assistance Systems (ADAS)                                                             |

## Qualification Mapping Information

| Current Code and Title                                                      | Previous Code and Title                                                     | Comments | Equivalence |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------|-------------|
| AUR30620<br>Certificate III in<br>Light Vehicle<br>Mechanical<br>Technology | AUR30616<br>Certificate III in<br>Light Vehicle<br>Mechanical<br>Technology |          | Equivalent  |

## Links

Companion volumes, including implementation guides, are found on the national training register - <https://training.gov.au/training/details/AUR>.