



Australian Government

AUR31120 Certificate III in Heavy Commercial Vehicle Mechanical Technology

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Modification History

Release	Comments
5	Superseded general elective units updated
4	Superseded elective units updated Minor update to qualification to include additional elective units
3	Minor update to qualification to include additional elective units
2	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.1. The following elective units of competency have been deleted as directed by the AISC: • AURTTL006 Install LNG fuel systems. 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 heavy commercial vehicles in the automotive service and repair sector.

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

22 core units, plus

14 elective units, of which:

- **1 unit** must be from one of the Specialist Elective Groups A or B below
- of the remaining **13 units** required to make up the elective unit total:
 - up to **13** may be from the Specialist Elective Groups and/or the general elective units listed below
 - up to **6** 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
- AURETR122 Diagnose and repair vehicle dynamic control systems
- AURETR124 Diagnose and repair compression 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
- AURHTB101 Diagnose and repair heavy vehicle air braking systems
- AURHTD102 Diagnose and repair heavy vehicle steering systems
- AURHTD103 Diagnose and repair heavy vehicle suspension systems
- AURHTE102 Diagnose and repair heavy vehicle compression ignition engines
- AURHTQ103 Diagnose and repair heavy vehicle drive shafts
- AURHTZ101 Diagnose and repair heavy vehicle emission control systems
- AURTTA006 Inspect and service hydraulic systems
- AURTTA104 Carry out servicing operations

- AURTTA118 Develop and carry out diagnostic test strategies
- AUR TTC103 Diagnose and repair cooling systems
- AUR TTF102 Inspect and service diesel fuel injection systems
- AUR TTF105 Diagnose and repair engine forced-induction systems
- AUR TTK102 Use and maintain tools and equipment in an automotive workplace
- AUR TTQ001 Inspect and service final drive assemblies

Specialist Elective Units

Group A: Heavy Vehicle Manual Transmission

- AURHTX101 Diagnose and repair heavy vehicle manual transmissions

Group B: Heavy Vehicle Automatic Transmission

- AURHTX103 Diagnose and repair heavy vehicle automatic transmissions

General Elective Units

- AUR AFA103 Communicate effectively in an automotive workplace
- AURAMA001 Work effectively with others in an automotive workplace
- AURETH017 Work safely with hydrogen in the automotive industry
- AURETH018 Inspect and maintain hydrogen fuel cell system*
- AURETH101 Depower and reinitialise battery electric vehicles
- 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
- 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)
- AURETU203 Service air conditioning and HVAC systems
- AURETU204 Diagnose and repair air conditioning and HVAC components
- AURETU205 Retrofit automotive air conditioning and HVAC systems
- AURHTB002 Diagnose and repair heavy vehicle hydraulic and air over hydraulic braking systems
- AURHTB107 Diagnose and repair heavy commercial vehicle electronic braking systems
- AURHTD104 Carry out heavy vehicle wheel alignment operations

- AURHTE001 Remove and install heavy vehicle engine assemblies
- AURHTF102 Diagnose and repair heavy vehicle diesel fuel injection systems
- AURHTJ203 Remove, inspect and refit heavy vehicle wheel and tyre assemblies
- AURHTJ206 Remove, inspect, repair and refit heavy vehicle tyres
- AURHTL101 Inspect, diagnose and repair alternative fuel systems in heavy vehicle engines
- AURHTQ102 Diagnose and repair heavy commercial vehicle final drive assemblies
- AURHTX002 Inspect, test and replace heavy vehicle automatic transmissions
- AURHTX104 Diagnose and repair heavy vehicle clutch systems
- AURHTY001 Inspect and service mechanical connections of heavy vehicles and trailers over 4.5 tonnes
- AURHTY102 Diagnose and repair mechanical connections of heavy vehicles and trailers over 4.5 tonnes
- AURTTA014 Assemble and install pneumatic system components
- AURTTA105 Select and use bearings, seals, gaskets, sealants and adhesives
- AURTTA113 Diagnose and repair hydraulic systems
- AURTTB004 Inspect and service air braking systems
- AURTTB006 Inspect, service and repair auxiliary braking systems
- AURTTB101 Inspect and service braking systems
- AURTTC002 Repair radiators
- AURTTD002 Inspect and service steering systems
- AURTTD004 Inspect and service suspension systems
- AURTTE104 Inspect and service engines
- AURTTK001 Use and maintain measuring equipment in an automotive workplace
- AURTTL003 Install CNG fuel systems
- AURTTL009 Install LPG fuel systems
- AURTTL104 Inspect and service LNG fuel systems
- AURTTL105 Diagnose and repair LNG fuel systems
- AURTTX102 Inspect and service manual transmissions
- AURTTX103 Inspect and service automatic transmissions
- AURTTZ102 Diagnose and repair exhaust systems
- 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

Pre-requisite Requirements

Unit of competency	Prerequisite requirement
AURETH018 Inspect and maintain hydrogen fuel cell system	AURETH017 Work safely with hydrogen in the automotive industry 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
AUR31120 Certificate III in Heavy Commercial Vehicle Mechanical Technology	AUR31116 Certificate III in Heavy Commercial Vehicle Mechanical Technology		Equivalent

Links

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