



Australian Government

AUR31116 Certificate III in Heavy Commercial Vehicle Mechanical Technology

Release 2

AUR31116 Certificate III in Heavy Commercial Vehicle Mechanical 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 perform a broad range of tasks on a variety of heavy commercial vehicles in the automotive service and repair sector.

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 = 36

22 core units, plus

14 elective units, of which:

- **1** unit must be chosen from one of the Specialist Elective Unit Groups A or B below
- of the **13** remaining units required to make up the elective unit total:
 - up to **13** units may be chosen from the Specialist Elective Unit Group not already chosen and the General 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
AURAEA002	Follow environmental and sustainability best practice in an automotive workplace
AURASA002	Follow safe working practices in an automotive workplace
AURETR012	Test and repair basic electrical circuits
AURETR022	Diagnose and repair vehicle dynamic control systems
AURETR024	Diagnose and repair compression ignition engine management systems
AURETR025	Test, charge and replace batteries and jump-start vehicles
AURETR029	Diagnose and repair charging systems
AURETR030	Diagnose and repair starting systems
AURHTB001	Diagnose and repair heavy vehicle air braking systems
AURHTD002	Diagnose and repair heavy commercial vehicle steering systems
AURHTD003	Diagnose and repair heavy commercial vehicle suspension systems
AURHTE002	Diagnose and repair heavy vehicle compression ignition engines
AURHTQ003	Diagnose and repair heavy vehicle drive shafts
AURHTZ001	Diagnose and repair heavy vehicle emission control systems
AURTTA004	Carry out servicing operations
AURTTA006	Inspect and service hydraulic systems
AURTTA018	Carry out diagnostic procedures
AURTTC003	Diagnose and repair cooling systems
AURTTF002	Inspect and service diesel fuel injection systems
AURTTF005	Diagnose and repair engine forced-induction systems
AURTTK002	Use and maintain tools and equipment in an automotive workplace
AURTTQ001	Inspect and service final drive assemblies

Specialist Elective Unit Groups

Group A: Heavy Vehicle Manual Transmission

Unit code	Unit title
AURHTX001	Diagnose and repair heavy vehicle manual transmissions

Group B: Heavy Vehicle Automatic Transmission

Unit code	Unit title
AURHTX003	Diagnose and repair heavy vehicle automatic transmissions

General Elective Units

Unit code	Unit title
AURAF003	Communicate effectively in an automotive workplace
AURAMA001	Work effectively with others in an automotive workplace
AURETR020	Diagnose and repair network electronic control systems
AURETR032	Diagnose and repair automotive electrical systems
AURETR043	Diagnose and repair electronic body management systems
AURETR044	Diagnose and repair integrated engine and transmission management systems
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
AURHTB002	Diagnose and repair heavy vehicle hydraulic and air over hydraulic braking systems
AURHTB007	Diagnose and repair heavy commercial vehicle electronic braking systems
AURHTD004	Carry out heavy vehicle wheel alignment operations

Unit code	Unit title
AURHTE001	Remove and install heavy vehicle engine assemblies
AURHTJ003	Remove, inspect and refit heavy vehicle wheel and tyre assemblies
AURHTJ006	Remove, inspect, repair and refit heavy vehicle tyres and tubes
AURHTQ002	Diagnose and repair heavy commercial vehicle final drive assemblies
AURHTX002	Inspect, test and replace heavy vehicle automatic transmissions
AURHTX004	Diagnose and repair heavy vehicle clutch systems
AURTTA005	Select and use bearings, seals, gaskets, sealants and adhesives
AURTTA013	Diagnose and repair hydraulic systems
AURTTA014	Assemble and install pneumatic system components
AURTTB001	Inspect and service braking systems
AURTTB004	Inspect and service air braking systems
AURTTB006	Inspect, service and repair auxiliary braking systems
AURTTD002	Inspect and service steering systems
AURTTD004	Inspect and service suspension systems
AURTTE004	Inspect and service engines
AURHTF002	Diagnose and repair heavy vehicle diesel fuel injection systems
AURTTK001	Use and maintain measuring equipment in an automotive workplace
AURTTX002	Inspect and service manual transmissions
AURTTX003	Inspect and service automatic transmissions
AURTTZ002	Diagnose and repair exhaust systems
AURVTW001	Carry out manual metal arc welding on components
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

Qualification Mapping Information

Equivalent to AUR31114 Certificate III in Heavy Commercial Vehicle Mechanical Technology

Links

Companion Volume Implementation Guides are found in VETNet -

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