

# **AUR31125 Certificate III in Heavy Commercial Vehicle Mechanical Technology**

## **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.

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 commercial vehicle steering systems

AURHTD103 Diagnose and repair heavy commercial 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

AURTTTC103 Diagnose and repair cooling systems

AURTTTF102 Inspect and service diesel fuel injection systems

AURTTTF105 Diagnose and repair engine forced-induction systems

AURTTK102 Use and maintain tools and equipment in an automotive workplace

AURTTQ001 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**

AURAF103 Communicate effectively in an automotive workplace

AURAMA001 Work effectively with others in an automotive workplace

AURETH101 Depower and reinitialise battery electric vehicles

AURETH017 Work safely with hydrogen in the automotive industry

AURETH018 Inspect and service fuel cell components\*

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

AURETU103 Service air conditioning and HVAC systems

AURETU104 Diagnose and repair air conditioning and HVAC components

AURETU105 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

AURHTJ103 Remove, inspect and refit heavy vehicle wheel and tyre assemblies

AURHTJ106 Remove, inspect, repair and refit heavy vehicle tyres and tubes

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
- AURTTTC002 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

<b>UNIT IN THIS QUALIFICATION</b>	<b>PREREQUISITE UNIT</b>
AURETH018 Inspect and service fuel cell components	AURETH101 Depower and reinitialise battery electric vehicles  AURETH017 Work safely with hydrogen in the automotive industry

## **Qualification Mapping Information**

AUR31120 Certificate III in Heavy Commercial Vehicle Mechanical Technology.

### **Links**

[Link to Companion Volume Implementation Guide](#)

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