



Australian Government

AUR31520 Certificate III in Automotive Diesel Engine Technology

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Modification History

Release	Comments
2	Minor update to qualification to add new elective unit
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 range of tasks on a variety of diesel engines and associated systems 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 = 28

14 core units, plus

14 elective units, of which:

- all **14** units may be from the elective units listed below
- up to **5** 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
- AURETR125 Test, charge and replace batteries and jump-start vehicles
- AURHTE102 Diagnose and repair heavy vehicle compression ignition engines
- AURHTF102 Diagnose and repair heavy vehicle diesel fuel injection systems
- AURTTA104 Carry out servicing operations
- AURTTA118 Develop and carry out diagnostic test strategies
- AURTTE104 Inspect and service engines
- AURTTK001 Use and maintain measuring equipment in an automotive workplace
- AURTTK102 Use and maintain tools and equipment in an automotive workplace
- AURTTM004 Assemble engine blocks and sub-assemblies
- AURTTM008 Dismantle and evaluate engine blocks and sub-assemblies
- AURTTM011 Recondition engine cylinder heads

Elective Units

- AURAF103 Communicate effectively in an automotive workplace
- AURAMA001 Work effectively with others in an automotive workplace
- AURETH017 Work safely with hydrogen in the automotive industry
- AURETR124 Diagnose and repair compression ignition engine management systems
- AURETR128 Diagnose and repair instruments and warning systems
- AURETR129 Diagnose and repair charging systems
- AURETR130 Diagnose and repair starting systems
- AURETR132 Diagnose and repair automotive electrical systems
- AURHTE001 Remove and install heavy vehicle engine assemblies
- AURHTX104 Diagnose and repair heavy vehicle clutch systems
- AURHTZ101 Diagnose and repair heavy vehicle emission control systems
- AURMTE101 Test engines using a dynamometer
- AURTTA009 Carry out mechanical pre-repair operations
- AURTTA105 Select and use bearings, seals, gaskets, sealants and adhesives
- AURTTF102 Inspect and service diesel fuel injection systems
- AURTTF105 Diagnose and repair engine forced-induction systems
- AURTTL001 Inspect and service CNG fuel systems
- AURTTL102 Diagnose and repair CNG fuel systems

- AURVTW101 Carry out manual metal arc welding on components
- AURVTW103 Carry out advanced gas metal arc welding on vehicle body sections
- AURVTW109 Carry out basic gas metal arc welding
- MEM05006 Perform brazing and/or silver soldering*
- MEM05007 Perform manual heating and thermal cutting*
- MEM09002 Interpret technical drawing*
- MEM11011 Undertake manual handling*
- MEM12023 Perform engineering measurements*
- MEM12024 Perform computations*
- MEM13015 Work safely and effectively in manufacturing and engineering
- MEM14006 Plan work activities*
- MEM16006 Organise and communicate information*
- MEM18001 Use hand tools*
- MEM27004 Maintain and repair engine lubrication systems*

Pre-requisite Requirements

Unit of competency	Prerequisite requirement
MEM05006 Perform brazing and/or silver soldering	MEM11011 Undertake manual handling MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
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	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM16006 Organise and communicate information</p>
MEM27004 Maintain and repair engine lubrication systems	<p>MEM09002 Interpret technical drawing</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p>

Qualification Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
AUR31520 Certificate III in Automotive Diesel Engine Technology	AUR31516 Certificate III in Automotive Diesel Engine Technology		Equivalent

Links

Companion volumes, including implementation guides, are found on the national training register - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>.