

AUR31525 Certificate III in Automotive Diesel Engine Technology

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.

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

AURETH101 Depower and reinitialise battery electric vehicles

AURETH017 Work safely with hydrogen in the automotive industry

AURETH018 Inspect and service fuel cell components*

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*

*Note the following prerequisite unit requirements.

UNIT IN THIS QUALIFICATION	PREREQUISITE UNIT(S)
AURETH018 Inspect and service fuel cell components	AURETH101 Depower and reinitialise battery electric vehicles AURETH017 Work safely with hydrogen in the automotive industry
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
MEM05007 Perform manual heating and thermal cutting	MEM09002 Interpret technical drawing MEM11011 Undertake manual handling MEM12023 Perform engineering measurements MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
MEM09002 Interpret technical drawing	MEM12023 Perform engineering measurements MEM12024 Perform computations MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
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UNIT IN THIS QUALIFICATION	PREREQUISITE UNIT(S)
MEM14006 Plan work activities	MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
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MEM27004 Maintain and repair engine lubrication systems	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

Qualification Mapping Information

AUR31520 Certificate III in Automotive Diesel Engine Technology.

Links

[Link to Companion Volume Implementation Guide](#)