



Australian Government

AUR30520 Certificate III in Marine Mechanical Technology

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Modification History

Release	Comments
4	Superseded elective units updated and new elective units added
3	<p>This version first released with AUR Automotive Retail, Service and Repair Training Package Version 7.0.</p> <p>The following elective unit has been updated:</p> <ul style="list-style-type: none"> • AURETR021 Inspect, service and repair electronic management, monitoring and tracking systems has been superseded by and is equivalent to AURETR121 Diagnose, repair and replace electronic management, monitoring and tracking systems.
2	<p>This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0.</p> <p>The following elective units of competency have been deleted as directed by the AISC:</p> <ul style="list-style-type: none"> • AURRGA002 Use cranes, gantries and forklifts to launch and recover vessels • AURRTA001 Inspect and service deck, hull and cabin equipment • AURRTA003 Winterise vessels and engine systems. <p>The above training products were identified as having zero enrolments over a three year period.</p>
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 in the marine industry. It is suitable for entry into the marine mechanical 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 = 30

11 core units

19 elective units, of which:

- 1 unit must be from one of the Specialist Elective Groups A or B below
- of the remaining units required to make up the elective unit total:
 - all 18 may be from the general elective units listed below
 - up to 5 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
- AURETR129 Diagnose and repair charging systems
- AURETR130 Diagnose and repair starting systems
- AURRTE008 Install marine engines, controls and instruments
- AURRTR007 Install marine electrical systems and components
- AURRTR106 Diagnose and repair marine electrical systems
- AURTTE001 Apply knowledge of engine science
- AURTTK102 Use and maintain tools and equipment in an automotive workplace

Specialist Elective Units

Group A: Marine outboard engines

- AURRTE002 Inspect and service marine outboard engines

Group B: Marine inboard engines

- AURRTE003 Inspect and service marine inboard engines

General Elective Units

- AURFA001 Use numbers in an automotive workplace
- AURETB101 Diagnose and repair electric braking systems
- AURETH017 Work safely with hydrogen in the automotive industry
- AURETH018 Inspect and maintain hydrogen fuel cell system*
- AURETH101 Depower and reinitialise battery electric vehicles
- AURETK002 Use and maintain electrical test equipment in an automotive workplace
- AURETR006 Solder electrical wiring and circuits
- AURETR009 Install vehicle lighting and wiring systems
- AURETR011 Install basic ancillary electrical systems and components
- AURETR026 Remove, replace and program electrical and electronic units and assemblies
- AURETR115 Inspect, test and service batteries
- AURETR121 Diagnose, repair and replace heavy vehicle electronic management, monitoring and tracking systems
- AURETR123 Diagnose and repair spark ignition engine management systems
- AURETR124 Diagnose and repair compression ignition engine management systems
- AURETR128 Diagnose and repair instruments and warning systems
- AURETR131 Diagnose and repair ignition systems
- AURETR132 Diagnose and repair automotive electrical systems
- AURHTF102 Diagnose and repair heavy vehicle diesel fuel injection systems
- AURHTL101 Inspect, diagnose and repair alternative fuel systems in heavy vehicle engines
- AURHTZ101 Diagnose and repair heavy vehicle emission control systems
- AURLTB103 Diagnose and repair light vehicle hydraulic braking systems
- AURRTC101 Diagnose and repair marine exhaust and cooling systems
- AURRTD101 Diagnose and repair marine steering systems
- AURRTE011 Overhaul two and four-stroke cycle marine outboard engines
- AURRTE106 Diagnose and repair marine outboard engines
- AURRTE107 Diagnose and repair marine inboard engines
- AURRTF001 Diagnose and repair petrol and diesel marine fuel systems

- AURRTQ001 Inspect and service marine inboard propeller drive systems
- AURRTQ002 Inspect and service marine jet drive propulsion systems
- AURRTQ005 Install marine jet drive propulsion systems
- AURRTQ104 Diagnose and repair marine inboard propeller drive systems
- AURRTQ106 Diagnose and repair marine jet drive propulsion systems
- AURRTR108 Diagnose and repair marine network electronic control systems
- AURRTX001 Inspect and service marine outboard and stern drive transmissions
- AURRTX002 Inspect and service marine inboard transmissions
- AURRTX103 Diagnose and repair marine outboard and stern drive transmissions
- AURRTX104 Diagnose and repair marine inboard transmissions
- AURTGA001 Drive and manoeuvre trailers
- AURTTA010 Service and repair trailers up to 4.5 tonnes
- AURTTA113 Diagnose and repair hydraulic systems
- AURTTA118 Develop and carry out diagnostic test strategies
- AURTTA121 Diagnose complex system faults
- AURTTB101 Inspect and service braking systems
- AURTTF102 Inspect and service diesel fuel injection systems
- AURTTF105 Diagnose and repair engine forced-induction systems
- AURTTK001 Use and maintain measuring equipment in an automotive workplace
- 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
- BSBPEF202 Plan and apply time management
- BSBPEF301 Organise personal work priorities
- 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*
- TLID0020 Shift materials safely using manual handling methods
- TLILIC0003 Licence to operate a forklift truck

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
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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Qualification Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence

AUR30520 Certificate III in Marine Mechanical Technology	AUR30516 Certificate III in Marine Mechanical Technology		Not equivalent
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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>.