



Australian Government

AUR30920 Certificate III in Motor Sport Technology

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Modification History

Release	Comments
4	Elective bank revised to include updated units
3	Superseded elective units updated
2	This version released with AUR Automotive Retail, Service and Repair Training Package Version 6.1. The following elective units of competency have been deleted as directed by the AISC: • AURATA003 Produce drawings from design concepts • AURMDA004 Recover vehicles at motor sport events • AURMDA005 Act as a marshal at motor sport events • AURMDA006 Communicate using flags and signals at motor sport events • AURMLA002 Monitor motor sport official and volunteer application of rules and regulations • AURMSA002 Implement and monitor safety and risk management in a motor sport environment. The above training products were identified as having zero enrolments over a three year period.
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 broad range of tasks on competition vehicles in the motor sport 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 = 36

21 core units, plus

15 elective units, of which:

- all **15** units may be from the elective units listed below
- up to **6** 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
- AURETR123 Diagnose and repair spark ignition engine management systems
- AURLTB103 Diagnose and repair light vehicle hydraulic braking systems
- AURLTD105 Diagnose and repair light vehicle suspension systems
- AURLTD106 Carry out light vehicle wheel alignment operations
- AURLTE102 Diagnose and repair light vehicle engines
- AURLTQ102 Diagnose and repair light vehicle drive shafts
- AURLTX101 Diagnose and repair light vehicle manual transmissions
- AURMBA002 Load and unload competition vehicles and support equipment
- AURMDA002 Assist with officiating duties at motor sport events
- AURMMA007 Follow motor sport event and team safety requirements
- AURMMA101 Operate in a motor sport environment
- AURMMA108 Coordinate operations of a motor sport team
- AURMTA005 Perform pit lane and service area operations at motor sport events
- AURMTA006 Perform torquing and fastening on motor sport competition vehicles
- AURMTA007 Conduct non-destructive testing
- AURMTA102 Assemble and prepare competition vehicles for motor sport events
- AURMTA104 Prepare competition vehicles at motor sport events
- AURMTA109 Collect and log motor sport data

- AURMTS001 Construct hose and pipe assemblies for competition vehicles
- AURTTA118 Develop and carry out diagnostic test strategies

Elective Units

- AURASA102 Follow safe working practices in an automotive workplace
- AURATA002 Read, interpret and apply engineering drawings
- AURETD101 Diagnose and repair electronically controlled steering systems
- AURETR006 Solder electrical wiring and circuits
- AURETR010 Repair wiring harnesses and looms
- AURETR017 Overhaul charging system alternators
- AURETR018 Overhaul starting system motors
- AURETR026 Remove, replace and program electrical and electronic units and assemblies
- AURETR112 Test and repair basic electrical circuits
- AURETR120 Diagnose and repair network electronic control systems
- 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
- AURETR128 Diagnose and repair instruments and warning systems
- AURETR129 Diagnose and repair charging systems
- AURETR130 Diagnose and repair starting systems
- AURETR131 Diagnose and repair ignition 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
- AURETR236 Diagnose and repair electronically controlled suspension systems
- AURHTE102 Diagnose and repair heavy vehicle compression ignition engines
- AURHTX104 Diagnose and repair heavy vehicle clutch systems
- AURJTD103 Diagnose and repair motorcycle suspension systems
- AURJTD104 Diagnose and repair motorcycle steering systems
- AURJTY001 Repair and align motorcycle frames
- AURLTB001 Overhaul light vehicle braking system components
- AURLTD104 Diagnose and repair light vehicle steering systems

- AURLTF101 Diagnose and repair light vehicle mechanical fuel injection systems
- AURLTJ111 Select light vehicle wheels and tyres
- AURLTJ202 Remove, inspect, repair and refit light vehicle tyres
- AURLTJ213 Remove, inspect and refit light vehicle wheel and tyre assemblies
- AURLTQ101 Diagnose and repair light vehicle final drive assemblies
- AURLTX102 Diagnose and repair light vehicle automatic transmissions
- AURLTX103 Diagnose and repair light vehicle clutch systems
- AURMBA101 Transport light competition vehicles and support equipment
- AURMDA101 Develop and update motor sport industry knowledge
- AURMDA107 Act as a steward at motor sport events
- AURMGA101 Set up and dismantle temporary work location and equipment at motor sport events
- AURMGA102 Manage personal presentation and development in a motor sport environment
- AURMKA001 Manage motor sport data
- AURMLA001 Apply motor sport rules and regulations when officiating
- AURMLA003 Inspect vehicles and equipment at motor sport events for compliance
- AURMMA102 Manage the preparation of motor sport competition vehicles
- AURMSA001 Follow motor sport safety and risk management procedures
- AURMTD001 Test suspension dampers using a dynamometer
- AURMTD002 Prepare competition vehicle suspension
- AURMTE101 Test engines using a dynamometer
- AURMTF001 Analyse and repair performance carburetted fuel systems
- AURMTF002 Analyse and repair performance fuel injection systems
- AURMTJ001 Select and prepare motor sport competition vehicle tyres and wheels
- AURMTQ101 Analyse and repair faults in performance driveline systems
- AURTTA121 Diagnose complex system faults
- AURTTB015 Assemble and fit braking system components
- AURTTB101 Inspect and service braking systems
- AURTTTC103 Diagnose and repair cooling systems
- AURTTD002 Inspect and service steering systems
- AURTTD004 Inspect and service suspension systems
- AURTTD005 Overhaul steering system components

- AURTTE005 Overhaul engines
- AURTTE104 Inspect and service engines
- AURTTTF007 Overhaul carburettor fuel system components
- AURTTTF101 Inspect and service petrol fuel systems
- AURTTTF105 Diagnose and repair engine forced-induction systems
- AURTTJ111 Balance wheels and tyres
- AURTTK001 Use and maintain measuring equipment in an automotive workplace
- AURTTM003 Apply metal to rebuild engine components
- AURTTM004 Assemble engine blocks and sub-assemblies
- AURTTM008 Dismantle and evaluate engine blocks and sub-assemblies
- AURTTM010 Heat treat, straighten and reclaim engine components
- AURTTM011 Recondition engine cylinder heads
- AURTTQ001 Inspect and service final drive assemblies
- AURTTQ004 Overhaul final drive assemblies
- AURTTQ103 Inspect and service drive shafts
- AURTTTS101 Fabricate exhaust systems and components
- AURTTX007 Overhaul clutch assemblies
- AURTTX008 Overhaul manual transmissions
- AURTTX009 Overhaul automatic transmissions
- AURTTX102 Inspect and service manual transmissions
- AURTTX103 Inspect and service automatic transmissions
- AURVTA002 Remove and replace vehicle supplementary restraint systems
- AURVTW002 Carry out oxyacetylene brazing of components
- AURVTW006 Carry out thermoplastic welding on vehicle trim components
- 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
- AURVTW105 Carry out spot welding
- AURVTW109 Carry out basic gas metal arc welding
- MEM07005 Perform general machining*
- 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*
- MEM18002 Use power tools/hand held operations*
- MEM30012 Apply mathematical techniques in a manufacturing engineering or related environment

Pre-requisite Requirements

Unit of competency	Prerequisite requirement
MEM07005 Perform general machining	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
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Qualification Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
AUR30920 Certificate III in Motor Sport Technology	AUR30916 Certificate III in Motor Sport Technology		Equivalent

Links

Companion volumes, including implementation guides, are found on the national training register - <https://training.gov.au/training/details/AUR>.