



Australian Government

AUR30916 Certificate III in Motor Sport Technology

Release 1

AUR30916 Certificate III in Motor Sport Technology

Modification History

Release	Comment
Release 1	New qualification.

Qualification Description

This qualification reflects the role of individuals who perform a broad range of tasks on competition vehicles in the motor sport industry.

Entry Requirements

This qualification may be accessed by direct entry.

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

Packaging Rules

Total number of units = 36

21 core units, plus

15 elective units, of which:

- up to **15** units may be chosen from the Elective Units listed below
- up to **6** units may be chosen from a Certificate II qualification or above in this Training Package or another endorsed Training Package or accredited course, provided that the units chosen contribute to the vocational outcome of this qualification and do not duplicate the outcome of another unit chosen for the qualification.

Core Units

Unit code	Unit title	Prerequisite unit
AURAEA002	Follow environmental and sustainability best practice in an automotive workplace	
AURETR023	Diagnose and repair spark ignition engine management systems	
AURLTD006	Carry out light vehicle wheel alignment operations	
AURMBA002	Load and unload competition vehicles and support equipment	
AURMDA002	Assist with officiating duties at motor sport events	
AURMMA001	Operate in a motor sport environment	
AURMMA007	Follow motor sport event and team safety requirements	
AURMMA008	Coordinate operations of a motor sport team	
AURMTA002	Assemble and prepare competition vehicles for motor sport events	
AURMTA004	Prepare competition vehicles at motor sport events	
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	
AURMTA009	Collect and log motor sport data	

Unit code	Unit title	Prerequisite unit
AURMTS001	Construct hose and pipe assemblies for competition vehicles	
AURTTA018	Carry out diagnostic procedures	
AURTTB001	Inspect and service braking systems	
AURTTD004	Inspect and service suspension systems	
AURTTE004	Inspect and service engines	
AURTTQ003	Inspect and service drive shafts	
AURTTX002	Inspect and service manual transmissions	

Elective Units

Unit code	Unit title	Prerequisite unit
AURASA002	Follow safe working practices in an automotive workplace	
AURATA002	Read, interpret and apply engineering drawings	
AURATA003	Produce drawings from design concepts	
AURETD001	Diagnose and repair electronically controlled steering systems	
AURETR006	Solder electrical wiring and circuits	
AURETR010	Repair wiring harnesses and looms	
AURETR012	Test and repair basic electrical circuits	
AURETR017	Overhaul charging system alternators	
AURETR018	Overhaul starting system motors	
AURETR020	Diagnose and repair network electronic control systems	
AURETR022	Diagnose and repair vehicle dynamic control systems	
AURETR024	Diagnose and repair compression ignition engine management systems	
AURETR025	Test, charge and replace batteries and jump-start vehicles	

Unit code	Unit title	Prerequisite unit
AURETR026	Remove, replace and program electrical and electronic units and assemblies	
AURETR028	Diagnose and repair instruments and warning systems	
AURETR029	Diagnose and repair charging systems	
AURETR030	Diagnose and repair starting systems	
AURETR031	Diagnose and repair ignition systems	
AURETR032	Diagnose and repair automotive electrical systems	
AURETR036	Diagnose and repair electronically controlled suspension systems	
AURETR043	Diagnose and repair electronic body management systems	
AURETR044	Diagnose and repair integrated engine and transmission management systems	
AURHTE002	Diagnose and repair heavy vehicle compression ignition engines	
AURHTX004	Diagnose and repair heavy vehicle clutch systems	
AURJTD003	Diagnose and repair motorcycle suspension systems	
AURJTD004	Diagnose and repair motorcycle steering systems	
AURJTY001	Repair and align motorcycle frames	
AURLTB001	Overhaul light vehicle braking system components	
AURLTB003	Diagnose and repair light vehicle hydraulic braking systems	
AURLTD004	Diagnose and repair light vehicle steering systems	
AURLTD005	Diagnose and repair light vehicle suspension systems	
AURLTE002	Diagnose and repair light vehicle engines	
AURLTF001	Diagnose and repair light vehicle mechanical fuel injection systems	
AURLTJ001	Select light vehicle tyres and wheels for specific applications	

Unit code	Unit title	Prerequisite unit
AURLTJ002	Remove, inspect, repair and refit light vehicle tyres and tubes	
AURLTJ003	Remove, inspect and refit light vehicle wheel and tyre assemblies	
AURLTQ001	Diagnose and repair light vehicle final drive assemblies	
AURLTQ002	Diagnose and repair light vehicle drive shafts	
AURLTX001	Diagnose and repair light vehicle manual transmissions	
AURLTX002	Diagnose and repair light vehicle automatic transmissions	
AURLTX003	Diagnose and repair light vehicle clutch systems	
AURMBA001	Transport light competition vehicles and support equipment	
AURMDA001	Develop and update motor sport industry knowledge	
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	
AURMDA007	Act as a steward at motor sport events	
AURMGA001	Set up and dismantle temporary work location and equipment at motor sport events	
AURMGA002	Manage personal presentation and development in a motor sport environment	
AURMKA001	Manage motor sport data	
AURMLA001	Apply motor sport rules and regulations when officiating	
AURMLA002	Monitor motor sport official and volunteer application of rules and regulations	
AURMLA003	Inspect vehicles and equipment at motor sport events for compliance	
AURMMA002	Manage the preparation of motor sport competition vehicles	
AURMSA001	Follow motor sport safety and risk management procedures	

Unit code	Unit title	Prerequisite unit
AURMSA002	Implement and monitor safety and risk management in a motor sport environment	
AURMTD001	Test suspension dampers using a dynamometer	
AURMTD002	Prepare competition vehicle suspension	
AURMTE001	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	
AURMTQ001	Analyse and repair faults in performance driveline systems	
AURTTA021	Diagnose complex system faults	
AURTTB005	Assemble and fit braking system components	
AURTTC003	Diagnose and repair cooling systems	
AURTTD002	Inspect and service steering systems	
AURTTD005	Overhaul steering system components	
AURTTE005	Overhaul engines	
AURTTF001	Inspect and service petrol fuel systems	
AURTTF005	Diagnose and repair engine forced-induction systems	
AURTTF007	Overhaul carburettor fuel system components	
AURTTJ001	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	

Unit code	Unit title	Prerequisite unit
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	
AURTTTS001	Fabricate exhaust systems and components	
AURTTX003	Inspect and service automatic transmissions	
AURTTX007	Overhaul clutch assemblies	
AURTTX008	Overhaul manual transmissions	
AURTTX009	Overhaul automatic transmissions	
AURVTA002	Remove and replace vehicle supplementary restraint systems	
AURVTW001	Carry out manual metal arc welding on components	
AURVTW002	Carry out oxyacetylene brazing of components	
AURVTW003	Carry out advanced gas metal arc welding on vehicle body sections	
AURVTW004	Carry out tungsten inert gas welding	
AURVTW005	Carry out spot welding	
AURVTW006	Carry out thermoplastic welding on vehicle trim components	
AURVTW008	Carry out oxyacetylene welding, thermal heating and cutting	
AURVTW009	Carry out basic gas metal arc welding	
MEM07005C	Perform general machining	MEM09002B MEM12023A MEM18001C
MEM09002B	Interpret technical drawing	
MEM12023A	Perform engineering measurements	
MEM18001C	Use hand tools	

Unit code	Unit title	Prerequisite unit
MEM18002B	Use power tools/hand held operations	
MEM30012A	Apply mathematical techniques in a manufacturing engineering or related environment	

Qualification Mapping Information

Equivalent to AUR30912 Certificate III in Motorsport Technology

Links

Implementation Guide -

http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=2