



**Australian Government**

# **AUR30920 Certificate III in Motor Sport Technology**

**Release 2**

## AUR30920 Certificate III in Motor Sport Technology

### Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0
Release 2	<p>This version released with AUR Automotive Retail, Service and Repair Training Package Version 6.1.</p> <p>The following elective units of competency have been deleted as directed by the AISC:</p> <ul style="list-style-type: none"><li>• AURATA003 Produce drawings from design concepts</li><li>• AURMDA004 Recover vehicles at motor sport events</li><li>• AURMDA005 Act as a marshal at motor sport events</li><li>• AURMDA006 Communicate using flags and signals at motor sport events</li><li>• AURMLA002 Monitor motor sport official and volunteer application of rules and regulations</li><li>• AURMSA002 Implement and monitor safety and risk management in a motor sport environment.</li></ul> <p>The above training products were identified as having zero enrolments over a three year period.</p>

### Qualification Description

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

AURLTJ011 Select light vehicle tyres and wheels for specific applications

AURLTJ102 Remove, inspect, repair and refit light vehicle tyres and tubes

AURLTJ113 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  
AURTTJ011 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\*

MEM30012A Apply mathematical techniques in a manufacturing engineering or related environment

\*Note the following prerequisite unit requirements.

UNIT IN THIS QUALIFICATION	PREREQUISITE UNIT(S)
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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MEM12024 Perform computations	MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
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## Qualification Mapping Information

Supersedes and is equivalent to AUR30916 Certificate III in Motorsport Technology.

## Links

Companion Volume Implementation Guide is found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>