



Australian Government

AUR40312 Certificate IV in Motorsport Technology

Release 2

AUR40312 Certificate IV in Motorsport Technology

Modification History

Release	Comment
Release 1	Replaces AUR40305 Certificate IV in Motorsport
Release 2	Prerequisites updated for AURMKA4001

Description

This qualification covers the skills and knowledge required to perform the role of team leader and supervisor in a motorsport environment. It includes preparing competition vehicles, coordinating team operations, performing non-destructive testing, and supervising pit lane operations.

Job roles and employment outcomes

The Certificate IV in Motorsport Technology provides advanced training for those who perform technical and supervisory roles in motorsport.

Job roles related to this qualification include:

- master technician
- pit crew coordinator.

Application

This qualification is suitable for an Australian Apprenticeship pathway.

Pathways Information

Pathways from the qualification

Further training pathways from this qualification include AUR50312 Diploma of Motorsport Technology, AUR50212 Diploma in Automotive Technology or other relevant qualifications.

Licensing/Regulatory Information

There are no specific licences that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements. Local regulations should be checked for details.

Entry Requirements

Those undertaking Certificate IV in Motorsport Technology are required to have completed the automotive qualification AUR30912 Certificate III in Motorsport Technology or be able to demonstrate equivalent competency.

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

The following table contains a summary of the Employability Skills as identified by the automotive industry for this qualification. The Employability Skills facets described here are broad industry requirements that may vary depending on qualification packaging options.

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> clearly communicating workplace verbal and non-verbal information and ideas with workplace colleagues, including use of automotive terms completing workplace reports using and contributing to workplace procedures maintaining workplace records communicating with colleagues and clients to handle verbal enquiries, such as clarifying instructions and responding to requests for information interpreting the needs of customers reading and interpreting workplace-related documentation
Teamwork	<ul style="list-style-type: none"> identifying and describing own role and role of others working with diverse individuals and groups applying knowledge of own role to complete activities efficiently to support team activities and tasks
Problem solving	<ul style="list-style-type: none"> recognising a workplace problem or potential problem and taking action determining problems needing priority action referring problems outside area of responsibility to appropriate person and suggesting possible causes seeking information and assistance as required to solve problems using a range of problem-solving techniques taking action to resolve concerns developing practical responses to common breakdowns in workplace systems and procedures
Initiative and enterprise	<ul style="list-style-type: none"> adapting to new and emerging situations in the workplace being proactive and creative in responding to workplace problems, changes and challenges
Planning and organising	<ul style="list-style-type: none"> planning own work requirements and prioritising actions to achieve required outcomes and ensure tasks are completed on time identifying risk factors and taking action to minimise risk
Self-management	<ul style="list-style-type: none"> selecting and using appropriate equipment, materials, processes and procedures

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

	<ul style="list-style-type: none">• recognising limitations and seeking timely advice• planning own work requirements, setting own work program and managing time to ensure tasks are completed on time• following workplace documentation, such as codes of practice and operating procedures
Learning	<ul style="list-style-type: none">• asking questions to gain information• identifying sources of information, assistance and expert knowledge to expand knowledge, skills and understanding• participating in self-improvement activities• participating in development of workplace continuous improvement strategies• helping others develop competency
Technology	<ul style="list-style-type: none">• operating diagnostic and test equipment• performance testing components, systems and equipment• using tools and equipment efficiently and safely• storing and caring for components, parts, tools, test equipment and support equipment• using business technology to collect, analyse and provide information

Packaging Rules

To be awarded this qualification, competency must be demonstrated in **10 units** of competency, consisting of:

- **1 core unit**

plus

- **9 elective units**, of which:

- up to **9** elective units may be chosen from the elective units listed below
- up to **2** elective units may be chosen from a Certificate III 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
Imported Unit	
BSBWHS401A	Implement and monitor WHS policies, procedures and programs to meet legislative requirements

Elective units

Unit code	Unit title	Pre requisites
Electrical – Technical – Electrical and Electronic		
AURETR2012	Test and repair basic electrical circuits	
AURETR3023	Diagnose and repair electronic spark ignition engine management systems	
Mechanical – Light Vehicle – Technical – Steering and Suspension		
AURLTD3005	Repair suspension systems (light vehicle)	
Mechanical – Light Vehicle – Technical – Brakes		
AURLTB4001	Overhaul braking system components (light)	
Mechanical – Light Vehicle – Technical – Driveline and Final Drives		
AURLTQ3001	Repair final drive assemblies (light vehicle)	

Unit code	Unit title	Pre requisites
AURLTQ3002	Repair final drive – driveline (light vehicle)	
Mechanical – Light Vehicle – Technical - Transmission		
AURLTX3001	Repair transmissions - manual (light vehicle)	
Motorsport – Sales and Marketing		
AURMCA5001	Manage motorsport team media liaison	
AURMCA5002	Manage motorsport team promotional partnerships and marketing	
Motorsport		
AURMGA4002	Manage personal presentation and development	
Motorsport – Information Technology		
AURMKA4001	Manage motorsport data	AURETR2012 AURMTA3009 MEM30012A
Motorsport – Management, Leadership and Supervision		
AURMMA4002	Manage the preparation of a competition vehicle	
AURMMA5003	Manage motorsport operations	
AURMMA5004	Manage motorsport team development	
AURMMA5005	Manage team pit lane and service area operations	AURMTA3005
AURMMA5006	Prepare and implement race strategies	
Motorsport – Technical		
AURMTA3007	Conduct non-destructive testing	
AURMTA3009	Collect and log motorsport data	
AURMTA5003	Determine material suitability for competition vehicle components	AURMTA3007 MEM30012A
AURMTA5008	Apply aerodynamic and vehicle dynamic principles and effects to competition vehicles	AURMTD4002 AURMTJ4001 MEM30012A

Unit code	Unit title	Pre requisites
Motorsport – Technical – Steering and Suspension		
AURMTD4001	Test suspension dampers using a dynamometer	MEM30012A
AURMTD4002	Prepare competition vehicle suspension	AURLTD3005 AURTTD2004
Motorsport – Technical – Engines		
AURMTE4001	Test engines using a dynamometer	
Motorsport – Technical – Fuel Systems		
AURMTF4001	Analyse and repair complex performance carburetted fuel systems	AURTTF2001 AURTTF3006
AURMTF4002	Analyse and repair performance fuel injection systems	AURETR3023 AURTTF2001
Motorsport – Technical – Wheels and Tyres		
AURMTJ4001	Select and prepare tyres and wheels for motorsport applications	
Motorsport – Technical – Driveline and Final Drives		
AURMTQ4001	Analyse and repair complex performance driveline systems	AURLTQ3001 AURLTQ3002 AURLTX3001 AURMTA3007
Mechanical Miscellaneous – Technical		
AURTTA4021	Carry out diagnosis of complex system faults	
Mechanical Miscellaneous – Technical – Steering and Suspension		
AURTTD2004	Inspect and service suspension systems	
AURTTD4005	Overhaul steering system components	
Mechanical Miscellaneous – Technical – Engines		
AURTTE4005	Overhaul engines and associated engine components	
Mechanical Miscellaneous – Technical – Fuel Systems		

Unit code	Unit title	Pre requisites
AURTTTF2001	Service petrol fuel systems	
AURTTTF3006	Diagnose and repair petrol carburettor systems	
AURTTTF4007	Overhaul petrol fuel system components	
Mechanical Miscellaneous – Technical – Driveline and Final Drives		
AURTTQ4004	Overhaul final drive assemblies	
Mechanical Miscellaneous – Technical – Transmission		
AURTTX4007	Overhaul clutch assemblies	
AURTTX4008	Overhaul transmissions (manual)	
AURTTX4009	Overhaul transmissions (automatic)	
Imported Units		
MEM30012A	Apply mathematical techniques in a manufacturing engineering or related environment	

Custom Content Section

Not applicable.