



Australian Government

AUR21012 Certificate II in Motorsport Technology

Release: 1

AUR21012 Certificate II in Motorsport Technology

Modification History

Release	Comment
Release 1	Replaces AUR21011 Certificate II in Motorsport

Description

This qualification covers the skills and knowledge required to perform basic mechanical servicing and repairs for motorsport vehicles. It is suitable for entry into the motorsport industry.

Job roles and employment outcomes

The Certificate II in Motorsport Technology offers training for individuals to perform vehicle servicing in a motorsport environment.

Employment outcomes targeted by this qualification include:

- a junior member or general hand within a race team.

Application

This qualification is typically used to develop employees or recognise and develop existing workers who are performing vehicle service and repair functions in a motorsport environment. They would be expected to perform a range of mechanical operations involving known routines, methods and procedures and take some accountability for the quality of outcomes. Training programs for this qualification are suitable to be undertaken as part of a formal training contract with an employer under an Australian Traineeship arrangement.

Pathways Information

Pathways into the qualification

Credit may be granted towards this qualification by those who have completed AUR10112 Certificate I in Automotive Vocational Preparation or other relevant qualifications.

Pathways from the qualification

Further training pathways from this qualification include AUR30912 Certificate III in Motorsport Technology, AUR30612 Certificate III in Light Vehicle Mechanical 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, depending on the work context. Local regulations should be checked for details.

Entry Requirements

This qualification may be accessed by direct entry.

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"> • understanding and carrying out verbal instructions from supervisors and others • reading and understanding workplace documents • completing written workplace documentation, forms and records • sharing work-related information with other team members • communicating with people from a range of social, cultural and ethnic backgrounds • seeking and acting upon feedback • using industry terminology
Teamwork	<ul style="list-style-type: none"> • contributing positively to the work team environment • working effectively with others in a socially diverse environment • respecting and understanding the views of others • giving and receiving feedback • identifying and describing own role and role of others
Problem-solving	<ul style="list-style-type: none"> • recognising a problem or a potential problem within a motorsport environment • seeking information and assistance to solve problems outside own area of responsibility • solving problems within own area of responsibility
Initiative and enterprise	<ul style="list-style-type: none"> • making adjustments to improve own performance • suggesting ideas for workplace improvement to supervisors and team members • positively adapting to changes in workplace procedures or arrangements • taking positive action to report hazards or risk situations to supervisors
Planning and organising	<ul style="list-style-type: none"> • understanding how own job role fits into the wider workplace context • planning daily work tasks to work safely and manage risks according to workplace procedures • prioritising activities to achieve required outcomes • planning and organising appropriate equipment and materials

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Employability Skill	Industry/enterprise requirements for this qualification include:
Self-management	<ul style="list-style-type: none">• following workplace safety requirements and other policies and procedures• managing own time• completing known delegated tasks on time• completing non-routine tasks as requested• selecting and using appropriate equipment, materials, processes and procedures• asking for advice and assistance
Learning	<ul style="list-style-type: none">• identifying personal strength and weaknesses• positively accepting opportunities to learn• acting upon feedback to improve work performance• asking questions to gain information• identifying sources of information to expand knowledge and understanding
Technology	<ul style="list-style-type: none">• appropriately selecting and using tools and equipment• recognising and reporting faulty equipment• using information and communication technology

Packaging Rules

To be awarded this qualification, competency must be demonstrated in **16 units** of competency, consisting of:

- **8 core units** listed below
- plus
- **8 elective units**, of which:
 - up to **8** elective units may be chosen from the elective units listed below
 - up to **3** elective units may be chosen from a Certificate I 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
Common - Environmental	
AURAEA2002	Apply environmental and sustainability best practice in an automotive workplace
Common - Health and Safety	
AURASA2002	Apply safe working practices in an automotive workplace
Mechanical - Light Vehicle - Technical - Wheels and Tyres	
AURLTJ2002	Remove, inspect, repair and fit tyres and tubes (light)
Motorsport	
AURMGA2001	Set up and dismantle temporary work location and equipment
Motorsport - Management, Leadership and Supervision	
AURMMA2001	Operate in a motorsport environment
Motorsport - Technical	
AURMTA2001	Prepare and service a light competition vehicle
Mechanical Miscellaneous - Technical - Tools and Equipment	
AURTTK2002	Use and maintain workplace tools and equipment
Imported Units	

Unit code	Unit title
MSAENV272B	Participate in environmentally sustainable work practices

Elective units

Unit code	Unit title
Common - Technical	
AURATA2001	Identify basic automotive faults using troubleshooting processes
AURATA2002	Read and interpret engineering drawings
AURATA2003	Produce drawings from design concepts
Electrical - Technical - Electrical and Electronic	
AURETR2006	Carry out soldering of electrical wiring and circuits
AURETR2009	Install, test and repair vehicle lighting and wiring systems
AURETR2010	Fabricate, test and repair wiring harnesses and looms
AURETR2011	Install and test basic ancillary electrical components
AURETR2012	Test and repair basic electrical circuits
AURETR2015	Inspect and service batteries
AURETR2042	Remove, refit and test electrical componentry for operation following body repair activities
AURETR3025	Test, charge and replace batteries
AURETR3026	Remove, replace and program electrical and electronic units and assemblies
Mechanical - Light Vehicle - Technical - Engines	
AURLTE2001	Remove and install light vehicle engine assemblies
Mechanical - Light Vehicle - Technical - Wheels and Tyres	
AURLTJ2001	Select tyres and rims for specific applications (light)
AURLTJ2003	Remove, inspect and refit light vehicle wheel assemblies

Unit code	Unit title
Motorsport - Support and Logistics	
AURMBA2001	Transport a light competition vehicle and support equipment
Motorsport - Officiating	
AURMDA2001	Develop and update motorsport industry knowledge
AURMDA2002	Assist with motorsport officiating duties
Motorsport - Regulatory or Legal	
AURMLA2001	Comply with motorsport rules and regulations when officiating
Motorsport - Health and Safety	
AURMSA2001	Follow motorsport safety and risk management procedures
Motorsport - Technical	
AURMTA3006	Perform torquing and fastening
Mechanical Miscellaneous - Technical	
AURTTA2004	Carry out servicing operations
Mechanical Miscellaneous - Technical - Brakes	
AURTTB2001	Inspect and service braking systems
AURTTB2002	Attach friction materials and radius grind
AURTTB2003	Machine brake drums and brake disc rotors
Mechanical Miscellaneous - Technical - Cooling Systems	
AURTTC2001	Inspect and service cooling systems
AURTTC2002	Carry out radiator repairs
Mechanical Miscellaneous - Technical - Steering and Suspension	
AURTTD2001	Inspect steering systems
AURTTD2002	Inspect and service steering systems
AURTTD2003	Inspect suspension systems

Unit code	Unit title
AURTTD2004	Inspect and service suspension systems
Mechanical Miscellaneous - Technical - Engines	
AURTTE2004	Inspect and service engines
Mechanical Miscellaneous - Technical - Fuel Systems	
AURTTF2001	Service petrol fuel systems
Mechanical Miscellaneous - Technical - Wheels and Tyres	
AURTTJ2001	Balance wheels and tyres
Mechanical Miscellaneous - Technical - Tools and Equipment	
AURTTK2001	Use and maintain measuring equipment in an automotive workplace
Mechanical Miscellaneous - Technical - Driveline and Final Drives	
AURTTQ2001	Service final drive assemblies
AURTTQ2003	Service final drive (driveline)
Mechanical Miscellaneous - Technical - Fabrication	
AURTTTS2001	Fabricate exhaust system and components
Mechanical Miscellaneous - Technical - Welding, Grinding, Machining and Soldering	
AURTTW2001	Carry out soft soldering techniques
Mechanical Miscellaneous - Technical - Transmission	
AURTTX2002	Inspect and service transmissions (manual)
AURTTX2003	Inspect and service transmissions (automatic)
Mechanical Miscellaneous - Technical - Emission and Exhaust	
AURTTZ2001	Inspect and service emission control systems
AURTTZ2002	Repair exhaust system components
Vehicle Body – Technical - Fabrication	
AURVTS2006	Carry out fabrication of components

Unit code	Unit title
Vehicle Body – Technical - Welding, Grinding, Machining and Soldering	
AURVTW2001	Carry out manual metal arc welding procedures
AURVTW2002	Carry out brazing procedures
AURVTW2003	Carry out gas metal arc welding procedures
AURVTW2004	Carry out gas tungsten arc welding procedures
AURVTW2005	Carry out spot welding procedures
AURVTW2008	Carry out oxy acetylene welding, thermal cutting and thermal heating procedures
AURVTW3006	Carry out thermoplastic welding procedures

Custom Content Section

Not applicable.